

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT</u> GENERAL EDWARD LAWRENCE LOGAN INTL	<u>AIRPORT ID</u> KBOS	<u>PROCEDURE NAME</u> ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	<u>ORIGINAL/AMENDMENT</u> 11	<u>CITY</u> BOSTON	<u>STATE</u> MA	
<u>AIRPORT ELEVATION</u> 19	<u>TDZE</u> 18	<u>SUPERSEDED</u> ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	<u>ORIGINAL/AMENDMENT</u> 10D	<u>DATED</u> 03/29/2018	<u>MAG VAR</u> 15W	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> I-BOS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
GOSHI	IAF	WINNI		TF	FB	1.00	035.59	5.14	4000
WINNI/I-BOS 16.90 DME/RADAR	IF	NABBO/I-BOS 11.93 DME/RADAR					034.74	4.97 (I-BOS)	3000
NABBO/I-BOS 11.93 DME/RADAR		MILTT/I-BOS 6.93 DME/RADAR					034.74	5.00 (I-BOS)	1700

MISSED APPROACH

MAP:

ILS: DA
 LOC: 5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 ON BOS VOR/DME R-030 TO WAXEN INT BOS 14.04 DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 3000 ON HEADING 035 AND MHT VOR/DME R-145 TO WAXEN/MHT 26.42 DME AND HOLD (DME REQUIRED).



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA

PROFILE:

1. **PT** **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**

2. PROFILE STARTS AT GOSHI

3. **FAC:** 034.74 **FAF:** MILTT/I-BOS 6.93 **DIST FAF TO MAP:** 5.12 **DIST FAF TO THLD:** 5.12
DME/RADAR

4. **MIN ALT:** GOSHI 6000, WINNI 4000, NABBO 3000, MILTT 1700, IRSEW/I-BOS 3.81 DME/RADAR 700*

5. **DIST TO THLD FROM OM:** **MM:** **IM:** **100 HAT:** 940 **150 HAT:** 1893 **GS ANT:** 1016

6. **MIN GS INCPT:** 1700 **GS ALT AT FAF :** MILTT/I-BOS 6.93 DME/RADAR 1700 **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 51.2

8. **MSA FROM:** BOS VOR/DME 215-305 2500, 305-215 2000

EQUIPMENT REQUIREMENTS NOTES:

RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.
DME OR RADAR REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RA 168, RVR 1400, HAT 150, DA 168 MSL.
CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RA 99, RVR 1200, HAT 100, DA 118 MSL.
CAT III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 4R: CAT A, B, C, D RVR 600
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
CAT II RVR 1000 CHART NOTE: RVR 1000 AUTHORIZED WITH SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CAT II, CAT III, AND SA CAT I CHART NOTE: WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA, PROCEDURE NA.
CAT I CHART NOTE: CIRCLING NA FOR CAT C/D W OF RWYS 4L AND 15R.
CAT I CHART NOTE: CIRCLING NA TO RWY 14.
CHART NOTE: **FOR INOPERATIVE ALS INCREASE S-LOC 4R CAT A/B VISIBILITY TO RVR 5500; RWY 4R HELICOPTER VISIBILITY REDUCTION BELOW 4000 RVR NOT AUTHORIZED.
CHART NOTE: ##WHEN VESSELS TALLER THAN 144 FEET PRESENT, S-ILS 4R NA.
CHART SPEED ICON IN PLANVIEW AT GOSHI: AT 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART IN PLANVIEW: WAXEN/MHT 26.42 DME
CHART MANDATORY 6000 AT GOSHI.
CHART VDP AT 2.92 DME*
DISTANCE VDP TO THLD 1.11 NM
* LOC ONLY
FAS OBST: 176 SHIP 422041N/0710053W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE WAXEN /MHT 26.42 DME, RT, 325.00 INBOUND.
HOLD NE, LT, 209.99 INBOUND

QUALITY
18
CHECKED

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: CAT A 1000-2, CAT B 1100-2, NA WHEN LOCAL WEATHER NOT AVAILABLE.

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 04R	218	1800	200	218	1800	200	218	1800	200	218	1800	200			
S-LOC 04R	440	2400	422	440	2400	422	440	4000	422	440	4000	422			
CIRCLING	940	1 1/4	921	1040	1 1/2	1021	620	1 3/4	601	620	2	601			
	## APPROACH MINIMA WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA														
S-ILS 04R	374	4000	356	374	4000	356	374	4000	356	374	4000	356			
S-LOC 04R**	440	4000	422	440	4000	422	440	4000	422	440	4000	422			

CHANGES - REASONS

1. ADDED RNAV INITIAL SEGMENT FROM GOSHI TO WINNI - TIE PROCEDURE TO THE ROBUC THREE STAR.
2. CHANGED CHART PLANVIEW NOTE FROM RADAR REQUIRED TO RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY, DME OR RADAR REQUIRED, AND MOVED TO EQUIPMENT REQUIRMENTS SECTION - IAW 8260.19H PARA 8-6-8.
3. ADDED CHART SPEED ICON IN PLANVIEW AT GOSHI: MAX 210 KIAS - TO MATCH TRANSITION FROM ROBUC THREE ARRIVAL.
4. ADDED CHART MANDATORY 6000 AT GOSHI - TO MATCH TRANSITION FROM ROBUC THREE ARRIVAL.
5. CHANGED CHART NOTE: CIRCLING NA FOR CATS C AND D W OF RWYS 4L AND 15R TO CAT I CHART NOTE: CIRCLING NA FOR CAT C/D W OF RWYS 4L AND 15R - IAW 8260.19H PARA 8-6-9A (5).
6. CHANGED CHART NOTE: CIRCLING NA TO RWY 14 TO CAT I CHART NOTE: CIRCLING NA TO RWY 14 - IAW 8260.19H PARA 8-6-9A (5).
7. ADDED NA WHEN LOCAL WEATHER NOT AVAILABLE TO ALTERNATE MINS - IAW 8260.19H PARA 8-6-11B (4).
8. LOWERED CAT C/D CIRCLING FROM 640/HAA 621 TO 620/HAA 601 - MAJOR AMENDMENT, XP NO LONGER REQUIRED.
9. CHANGED INOP NOTE FROM **FOR INOPERATIVE ALS, INCREASE S-ILS 4R ALL CATS VISIBILITY TO RVR 6000, AND S-LOC 4R CATS A AND B VISIBILITY TO RVR 5000; RWY 4R HELICOPTER VISIBILITY TO **FOR INOPERATIVE ALS INCREASE S-LOC 4R CAT A/B VISIBILITY TO RVR 5500; RWY 4R HELICOPTER VISIBILITY REDUCTION BELOW 4000 RVR NOT AUTHORIZED - NEW VISCHECK.
10. LOWERED CAT A CMDA FROM 960/HAA 941 TO 940/HAA 921 AND CAT B CMDA FROM 1060/HAA 1041 TO 1040/HAA 1021 - MAJOR AMENDMENT, XP NO LONGER REQUIRED.

09/25/2019: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON: 10/04/2018:

1. CHANGED IN NOTES: CHART SPEED ICON IN PLANVIEW AT GOSHI: MAX 210 KIAS TO: CHART SPEED ICON IN PLANVIEW AT GOSHI: AT 210 KIAS.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZBW, BOS APP CON, BOS ATCT, AMGR

FLIGHT CHECKED BY

STEPHEN BAUER

Digitally signed by **OFFICE**
WARDELL HENNING FICO
Nov 18, 2019

DATE
01/12/2019

DEVELOPED BY

WARDELL HENNING (STEVEN SCHUTRUM)

Digitally signed by **OFFICE**
WARDELL HENNING AJV-5430

DATE
10/04/2018

APPROVED BY

GEORGE DAVIS

Digitally signed by
WARDELL HENNING
Nov 18, 2019

OFFICE
AJV-5430

DATE

TITLE
MANAGER

QUALITY
18
CHECKED

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> GENERAL EDWARD LAWRENCE LOGAN INTL	<u>AIRPORT ID</u> KBOS	<u>PROCEDURE NAME</u> ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	<u>AMDT NO.</u> 11	<u>CITY</u> BOSTON	<u>STATE</u> MA	<u>AIRPORT ELEVATION</u> 19	<u>FACILITY</u> I-BOS
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
GOSHI

TO
WINNI

<u>RNP</u>	<u>DISTANCE</u> 5.14	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	420527.00N/0710839.00W		614	164	98	4E	1000				AT2386	4000
2.TERRAIN	420527.00N/0710839.00W		414 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
WINNI/I-BOS 16.90 DME/RADAR

TO
NABBO/I-BOS 11.93 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 4.97	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	420800.00N/0711242.00W		601	164	98	4E	500				AC98 AT1801	3000
4.TERRAIN	420800.00N/0711242.00W		401 (400)								AS1500	1900

COMPUTATIONS

ALT KIAS KTAS HAA VKTW TR BA DTA COURSE CHANGE DVEB VEB OCS RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

INTERMEDIATE: STEPDOWN

FROM
NABBO/I-BOS 11.93 DME/RADAR

TO
MILTT/I-BOS 6.93 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 5.00	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.TOWER (25-000538)	421449.00N/0710254.00W		990	250	50	4D	500				AT210	1700
6.TERRAIN	421242.00N/0710648.00W		640 (600)								AS1000	1600

<u>COMPUTATIONS</u>												
<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>	

SEGMENT REMARKS:

FINAL: ILS

FROM
MILTT/I-BOS 6.93 DME/RADAR

TO
RW04R

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 200			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				218

<u>COMPUTATIONS</u>												
<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>	

SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

FINAL: ILS

FROM
MILTT/I-BOS 6.93 DME/RADAR

TO
RW04R

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 356	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.SHIP	422041.00N/0710053.00W		144	50	20	2C		34:1			AC20 MA33	374

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL: ILS SA CAT I

FROM
MILTT/I-BOS 6.93 DME/RADAR

TO
RW04R

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 150	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				168

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL: ILS CAT II

FROM
MILTT/I-BOS 6.93 DME/RADAR

TO
RW04R

<u>RNP</u>	<u>DISTANCE</u> 5.12	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 100	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				118

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

FINAL: LOC

FROM

MILTT/I-BOS 6.93 DME/RADAR

TO

IRSEW/I-BOS 3.81 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u> 3.12	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
8.AAO	421730.71N/0710312.26W		315	50	20	2C	250				DG135	700

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FINAL: LOC STEPDOWN

FROM

IRSEW/I-BOS 3.81 DME/RADAR

TO

5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

<u>RNP</u>	<u>DISTANCE</u> 2.00	<u>PAT</u>	<u>MAP</u> 5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME	<u>HAT</u> 422			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.SHIP	422041.00N/0710053.00W		176	50	20	2C	250					440

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

FINAL: LOC STEPDOWN

FROM
 IRSEW/I-BOS 3.81 DME/RADAR

TO
 5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
	2.00		5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME	422	

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
9.SHIP	422041.00N/0710053.00W	176	50	20	2C	250					440

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

FOR APPROACH MINIMA WHEN CONTROL TOWER REPORTS TALL VESSELS IN APPROACH AREA.

MISSED APPROACH : ILS

FROM
 DA

TO
 WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
					52

<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC			AC20	3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS

200FT HAT, NO TALL SHIPS

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MISSED APPROACH : ILS

FROM
DA

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 139					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.SHIP	422041.00N/0710053.00W		144	50	20	2C		ASC			AC20	3000
10.TOWER (25-000575)	423153.72N/0705910.41W		686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W		286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:
ILS MISSED BASED TALL SHIPS (144FT) IN THE HARBOR

MISSED APPROACH : ILS SA CAT I

FROM
DA

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W		686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W		286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MISSED APPROACH : ILS CAT II

FROM
DA

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

MISSED APPROACH : LOC

FROM
5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 190				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

BASED ON 176FT VESSEL ON FINAL, NO TALL SHIP LINE OF MINIMA



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MISSED APPROACH : LOC

FROM
5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

BASED ON 176FT VESSEL ON FINAL, TALL SHIP LINE OF MINIMA

MISSED APPROACH ALTERNATE : ILS

FROM
DA

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 52				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

200FT HAT, NO TALL SHIPS



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MISSED APPROACH ALTERNATE : ILS

FROM

DA

TO

WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 139					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
7.SHIP	422041.00N/0710053.00W		144	50	20	2C		ASC			AC20	3000
10.TOWER (25-000575)	423153.72N/0705910.41W		686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W		286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS SA CAT I

FROM

DA

TO

WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W		686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W		286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MISSED APPROACH ALTERNATE : ILS CAT II

FROM
DA

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : LOC

FROM
5.12 NM AFTER MILTT/I-BOS 6.93 DME/RADAR OR AT I-BOS 1.81 DME

TO
WAXEN/BOS 14.04 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 190				
<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
							ASC				3000
10.TOWER (25-000575)	423153.72N/0705910.41W	686	20	3	1A	1000					1700
11.TERRAIN	423012.00N/0705754.00W	286 (300)								AS1500	1800

<u>COMPUTATIONS</u>	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



TO
WAXEN/BOS 14.04 DME

HMAS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:
TALL SHIP LINE OF MINIMA

NOT AUTHORIZED

ATC DESIRES TO ALLOW SMALL AIRCRAFT (CAT A/B) TO CIRCLING TO RWY 04L, BUT DOES NOT WANT CAT C/D TO CIRCLE WEST DUE TO AN UNREASONABLY HIGH CIRCLING MDA.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

MSA

<u>CENTER</u>	<u>RADIUS</u>
BOS VOR/DME	25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
215-305	TOWER (25-000619)	422302.73N/0712935.33W	290	22.5	1462	50	3	2A	1000			2500
305-215	TOWER (25-000538)	421449.10N/0710253.50W	218	07.1	990	250	50	4D	1000			2000

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

ILS AND LOC INTERMEDIATE SEGMENTS HAVE SAME CONTROLLING OBS/HIGH TERRAIN.

FIXES WINNI AND NABBO PLACED AT ATC REQUEST TO KEEP APPROACH AIRCRAFT WITHIN CLASS B AREA.

MAXIMUM SHIP HEIGHT LIMITED TO 176 FEET BY THE HARBOR MASTER. ON OCCASIONS WHERE A TALLER VESSEL REQUIRES ACCESS, THE HARBOR MASTER WILL COORDINATE WITH THE AIRPORT TO TEMPORARILY SUSPEND OPERATIONS.

BOS ATCT HAS A RADAR THAT IS SET TO ALARM IF A VESSEL TALLER THAN 97 FEET IS ABOUT TO ENTER THE PRECISION APPROACH AREA. VESSELS LARGER THAN 97 FEET PENETRATE THE PRECISION APPROACH SURFACE. WHEN ALERTED BY ALARM, TOWER NOTIFIES AIRCRAFT TALL VESSELS IN APPROACH AREA, AND AIRCRAFT WILL REVERT TO TALL VESSEL MINIMUMS. TALL VESSEL VISIBILITY MINIMUMS LIMITED TO RVR 4000 DUE TO THE 34:1 VISUAL SURFACE BEING PENETRATED.

BOS ATCT HAS HARBOR RADAR ALSO SET TO ALARM AT 144 FEET. WHEN VESSELS TALLER THAN 144 FEET ENTER THE APPROACH AREA, S-ILS NA DUE TO A GQS PENETRATION.

LANDINGS NOT AUTHORIZED ON RWY 14 (USED FOR TAKEOFF ONLY) PER AIRPORT REMARKS IN CHART SUPPLEMENT.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
BOS APP CON, BOS TOWER

<u>WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>
ASOS	KBOS	24	KBOS	0	Y	0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
24 HOUR ATC TOWER HAS REDUNDANT WEATHER SOURCES,
BACK-UP ALTIMETER NOT REQUIRED.

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
I-BOS	BOS TRACON	24	1

<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW14 - HIRL	BSC-G	
RW15L - MIRL	BSC-G	
RW33R - MIRL	BSC-G	
RW04L - HIRL, REIL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW04R - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW09 - HIRL, C/LINE	PIR-G	APPROACH, ROLL OUT
RW15R - TDZ, MALSR, HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22L - MALSF, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22R - HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW27 - HIRL, REIL, C/LINE, PAPI-4L	PIR-G	APPROACH, ROLL OUT
RW32 - HIRL, REIL, PAPI-4L	PIR-G	
RW33L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
3.00	17.6	51.2	10.1	1016	3.00	67.0

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	1154.519
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		



<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

Final Type	CIRCLING		
20:1			
RWY 14		191 BLDG (25-000534) 422132.11N/0710138.07W (116.80)	
191 BLDG (25-037202) 422132.15N/0710138.21W (116.26)		226 CRANE (25-000233) 422142.00N/0710201.00W (52.72)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BOS ILS TCH OF 51.157 USED IN PROCEDURE DEVELOPEMENT.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.24
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.92
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	019.74
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	132
DISTANCE FROM	THLD	TO 1500FT POINT	4.92
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.28
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	019.74
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	640

THRESHOLD
COORDINATES
(IF STR-IN)422114.55N/0710037.27W

ARP COORDINATES422146.60N/0710023.00W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 22R DISTANCE 0.92 NM

FAF
COORDINATES421625.14N/0710257.09W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.
THLD DISPLACED 1154.519FT, ACTUAL COORDINATES: 422103.81N/0710042.46W.

<u>AIRPORT</u>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>AMDT NO.</u>	<u>CITY</u>	<u>STATE</u>	<u>AIRPORT ELEVATION</u>	<u>FACILITY</u>
GENERAL EDWARD LAWRENCE LOGAN INTL	KBOS	ILS OR LOC RWY 4R ILS RWY 4R SA CAT I, ILS RWY 4R CAT II, ILS RWY 4R CAT III	11	BOSTON	MA	19	I-BOS

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
WARDELL HENNING (STEVEN SCHUTRUM)	AJV-5430	10/04/2018	AERONAUTICAL INFORMATION SPECIALIST