US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LWM VOR/DME (IAF)	YANRU (TF) (FB) (RNP 1.00)	188.09 / 7.70	2000
YANRU (IF)	HADEV (TF) (FB) (RNP 1.00)	188.21 / 6.65	1800
EXXRO (IF)	UJEGE (TF) (FB) (RNP 1.00)	132.51 / 5.49	1800
UJEGE	HADEV (RF) (FB) (RNP 1.00)	(2.60 NM RADIUS CW (CFFGS))/2.52	1800
HADEV	ZOSLA (RF) (FB) (RNP 1.00)	(2.60 NM RADIUS CW (CFFGS))/4.77	1800
(SEE FORM 8260-10)			

MISSED APPROACH

RNP: DA

CLIMB TO 2000 ON TRACK 293.14 TO COMON AND ON TRACK 296.86 TO SOSYO AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 293.00 INBOUND.
CHART R-4102 A/B.
DISTANCE TO THLD FROM 523 HATH: 1.48 NM.
#TCH 177.7 MSL (DO NOT CHART).
ROUTE TYPE: A, H
ROUTE TYPE QUALIFIER 1: F
ROUTE TYPE QUALIFIER 1: S

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT ZOSLA
3. FAC: 293.22 FAF: ____ DIST FAF TO MAP: 5.09 THLD: ____
4. MIN. ALT: ZOSLA 1800, JAYSE 1800
5. DIST TO THLD FROM OM: 5.09 MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1800 GS ALT AT: JAYSE 1800 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: #54.7 34:1 IS NOT CLEAR
8. MSA FROM: RW29 3400

MAG VAR: 16W EPOCH YEAR: 1995

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	646	1 1/4	523	646	1 1/4	523	646	1 1/4	523	646	1 1/4	523			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -16C (4F) OR ABOVE 54C (130F).
CHART NOTE: GPS REQUIRED.
CHART PLANVIEW NOTE AT EXXRO : MAX 210 KIAS.
CHART PLANVIEW NOTE AT HADEV : MAX 210 KIAS.
(SEE FORM 8260-10)

QUALITY A

CITY AND STATE	ELEVATION: 132 THRE: 123	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
BEDFORD, MA	AIRPORT NAME: LAURENCE G HANSCOM FLD	RNAV	RNAV (RNP) Y RWY 29, ORIG	AMDT: NONE
				DATED

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		**CONCURRENT**

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[ ]	[X]	[X]	[X] **ZBW, BOS APP CON, BED ATCT, BED AMGR.**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **DAVID SAUER**	FIFO **AJV-352**	DATE: **01/06/2012**

APPROVED BY		
NAME: **DARRYEL ADAMS** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

REASONS:

PDF EDITS:
1. 8260-3, LINE 1: DELETED "NA".
2. 8260-3, LINE 5: ADDED DIST TO THLD FROM OM: "5.09".
3. 8260-10, TERMINAL ROUTES CONT: ADDED "(FAF)" NEXT TO JAYSE; ADDED "(RNP 1.00)" NEXT TO SOSYO (TF) (FO), CHANGED "DA" TO "RW29".
4. 8260-9, PAGE 1 FRONT: ADDED RNP VALUE NEXT TO EACH APP SEGMENT.
5. 8260-3, LINE 7: ADDED # NEXT TO 54.7.
6. 8260-3, MINIMUMS: CHANGED "RNP 0.3 DA" TO "RNP 0.30 DA".
7. 8260-9, BACK PAGE BLOCK 3: DELETED "KBOS" AND "/14.10" AND "/49"
8. 8260-9, FRONT PAGE, BLOCK 5: CHANGED MSA FROM "3300" TO "3400".
9. 8260-3, LINE 8: CHANGED MSA FROM "3300" TO "3400".

EFFECTIVE CONCURRENT WITH: KBED ILS OR LOC RWY 29, AMDT 7.

QUALITY A CHECKED

Bearings, headings, courses, 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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
MORIS (IF)	ZOSLA (TF) (FB) (RNP 1.00)	293.31 / 4.02	1800
ZOSLA	JAYSE (TF) (FB) (RNP 1.00)	293.25 / 2.00	1800
JAYSE (FAF)	RW29 (MAP) (TF) (FO)	293.22 / 5.09	
RW29 (MAP)	COMON (TF) (FB) (RNP 1.00)	293.14 / 4.00	
COMON	SOSYO (TF) (FO) (RNP 1.00)	296.86 / 3.08	2000

NOTES, (CONT.):
CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT MORIS.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR ARRIVALS AT LWM VOR/DME.
CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.
CHART PLANVIEW NOTE ADJACENT TO EXXRO: RF REQUIRED.
CHART PLANVIEW NOTE ADJACENT TO LWM VOR/DME: RF REQUIRED.
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 3/4.

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 132 THRE: 123	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
BEDFORD, MA	AIRPORT NAME: LAURENCE G HANSCOM FLD	RNAV	RNAV (RNP) Y RWY 29, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (RNP)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        LWM   K6011250VDL  N42442550W071054143    N42442550W071054143W0150003021     NARLAWRENCE

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CFFGS K60    W     N42295146W071063126                    W0150     NAR           CNF(CFFGS)
        SUSAEAENRT   COMON K60    W     N42283970W071215039                    W0149     NAR           COMON
        SUSAEAENRT   EXXRO K60    W     N42343827W071113548                    W0150     NAR           EXXRO
        SUSAEAENRT   HADEV K60    W     N42301256W071030231                    W0151     NAR           HADEV
        SUSAEAENRT   JAYSE K60    C     N42273176W071093869                    W0150     NAR           JAYSE
        SUSAEAENRT   MORIS K60    C     N42264605W071013439                    W0150     NAR           MORIS
        SUSAEAENRT   SOSYO K60    C   L N42291445W071255575                    W0149     NAR           SOSYO
        SUSAEAENRT   UJEGE K60    W     N42321099W071045682                    W0151     NAR           UJEGE
        SUSAEAENRT   YANRU K60    W     N42364775W071041535                    W0151     NAR           YANRU
        SUSAEAENRT   ZOSLA K60    W     N42271665W071065786                    W0150     NAR           ZOSLA

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBEDK6ABED     0     070YHN42281180W071172040W016000132         1800018000C    MNAR    LAURENCE G HANSCOM FLD

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBEDK6FH29-Y AEXXRO 010EXXROK6EA0E  B    IF                                          18000210              A-FS
        SUSAP KBEDK6FH29-Y AEXXRO 020UJEGEK6EA0E    010TF                                  + 01800                          A FS
        SUSAP KBEDK6FH29-Y AEXXRO 030HADEVK6EA0E   R010RF       0026001325    18820025    + 01800          210    CFFGS K6EAA-FS
        SUSAP KBEDK6FH29-Y AEXXRO 040ZOSLAK6EA0EE  R010RF       0026001882    29330048    + 01800                 CFFGS K6EAA FS
        SUSAP KBEDK6FH29-Y ALWM   010LWM  K6D 0V  A    IF                                          18000                 A FS
        SUSAP KBEDK6FH29-Y ALWM   020YANRUK6EA0E  B 010TF                                  + 02000                          A FS
        SUSAP KBEDK6FH29-Y ALWM   030HADEVK6EA0E    010TF                                  + 01800          210             A-FS
        SUSAP KBEDK6FH29-Y ALWM   040ZOSLAK6EA0EE  R010RF       0026001882    29330048    + 01800                 CFFGS K6EAA FS
        SUSAP KBEDK6FH29-Y AMORIS 010MORISK6EA0E  B    IF                                          18000                 A FS
        SUSAP KBEDK6FH29-Y AMORIS 020ZOSLAK6EA0EE   010TF                                  + 01800                          A FS
        SUSAP KBEDK6FH29-Y H      010ZOSLAK6EA0E  I    IF                                  + 01800     18000                A FS
        SUSAP KBEDK6FH29-Y H      020JAYSEK6EA1E  F 010TF                                  + 01800                 RW29 BK6PGA FS
        SUSAP KBEDK6FH29-Y H      020JAYSEK6EA2W                                                A031                        FS
        SUSAP KBEDK6FH29-Y H      030RW29 K6PG0GY M 031TF                                    00178            -300          A FS
        SUSAP KBEDK6FH29-Y H      040COMONK6EA0E M  010TF                                                                 A FS
        SUSAP KBEDK6FH29-Y H      050SOSYOK6EA0EY   010TF                                  + 02000                          A FS
        SUSAP KBEDK6FH29-Y H      060SOSYOK6EA0EE  R   HM                      29300040    + 02000                          A FS
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 132 THRE: 123	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BEDFORD, MA	AIRPORT NAME: **LAURENCE G HANSCOM FLD**	**RNAV**	**RNAV (RNP) Y RWY 29, ORIG**	AMDT: **NONE**
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

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```
                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBEDK6GRW29    0070112931 N42280997W071162842+0100    +0009800123000055150IIULJ1

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBEDK6SRW29 K6PGB              0   18018003425                                                                          M
```

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 132 THRE: 123	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BEDFORD, MA	AIRPORT NAME: LAURENCE G HANSCOM FLD	RNAV	RNAV (RNP) Y RWY 29, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (RNP)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	EXXRO	EXXRO	010		IF		FB					AB 210
	EXXRO	UJEGE	020		TF		FB	1.0			AA 01800	
	EXXRO	HADEV	030		RF	R	FB	1.0		002.5	AA 01800	AB 210
	EXXRO	ZOSLA	040		RF	R	FB	1.0		004.8	AA 01800	
	LWM	LWM	010	IAF	IF		FB					
	LWM	YANRU	020		TF		FB	1.0			AA 02000	
	LWM	HADEV	030		TF		FB	1.0			AA 01800	AB 210
	LWM	ZOSLA	040		RF	R	FB	1.0		004.8	AA 01800	
	MORIS	MORIS	010		IF		FB					
	MORIS	ZOSLA	020		TF		FB	1.0			AA 01800	
		ZOSLA	010	FACF	IF		FB				AA 01800	
		JAYSE	020	FAF	TF		FB	1.0			AA 01800	
		RW29	030	MAP	TF		FO	0.3			AT 00178	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	COMON	040		TF		FB	1.0				
	SOSYO	050		TF		FO	1.0			AA 02000	
	SOSYO	060		HM	R	FO		293.0(277.0T)	004.0	AA 02000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	LWM	N424425.50	W0710541.43	N4244.425	W07105.691
	CFFGS	N422951.46	W0710631.26	N4229.858	W07106.521
	COMON	N422839.70	W0712150.39	N4228.662	W07121.840
	EXXRO	N423438.27	W0711135.48	N4234.638	W07111.591
	HADEV	N423012.56	W0710302.31	N4230.209	W07103.039
	JAYSE	N422731.76	W0710938.69	N4227.529	W07109.645
	MORIS	N422646.05	W0710134.39	N4226.768	W07101.573
	SOSYO	N422914.45	W0712555.75	N4229.241	W07125.929
	UJEGE	N423210.99	W0710456.82	N4232.183	W07104.947
	YANRU	N423647.75	W0710415.35	N4236.796	W07104.256
	ZOSLA	N422716.65	W0710657.86	N4227.278	W07106.964
	RW29	N422809.97	W0711628.42	N4228.166	W07116.474

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW29	00123	55

QUALITY CHECKED

CITY AND STATE	ELEVATION: 132 THRE: 123	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BEDFORD, MA	AIRPORT NAME: LAURENCE G HANSCOM FLD	RNAV	RNAV (RNP) Y RWY 29, ORIG	AMDT: NONE
				DATED:

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL (RNP 1.00)	LWM VOR/DME	YANRU	1. AAO	423827.00N/0710624.00W	620 (4E)	1000	AC98 AT282	2000
			2. TERRAIN	423827.00N/0710624.00W	420 (400)		AS1500	1900
INTERMEDIATE (RNP 1.00)	YANRU	HADEV	3. AAO	423024.00N/0710521.00W	496 (4E)	500	AC98	1400
			4. TERRAIN	423024.00N/0710521.00W	296 (300)		AS1500	1800
INTERMEDIATE (RNP 1.00)	EXXRO	UJEGE	3. AAO	423024.00N/0710521.00W	496 (4E)	500	AC98	1400
			5. TERRAIN	423057.00N/0710736.00W	296 (300)		AS1500	1800
INTERMEDIATE (RNP 1.00)	UJEGE	HADEV	3. AAO	423024.00N/0710521.00W	496 (4E)	500	AC98	1400
STEPDOWN			6. TERRAIN	422654.00N/0710515.00W	296 (300)		AS1500	1800
INTERMEDIATE (RNP 1.00)	HADEV	ZOSLA	7. AAO	422654.00N/0710515.00W	525 (4E)	500	AC98	1200
STEPDOWN			8. TERRAIN	422654.00N/0710515.00W	325 (300)		AS1500	1800
INTERMEDIATE (RNP 1.00)	MORIS	ZOSLA	7. AAO	422654.00N/0710515.00W	525 (4E)	500	AC98	1200
			8. TERRAIN	422654.00N/0710515.00W	325 (300)		AS1500	1800
INTERMEDIATE (RNP 1.00)	ZOSLA	JAYSE	9. AAO	422651.00N/0711000.00W	581 (4E)	500	AC98	1200
STEPDOWN			10. TERRAIN	422645.00N/0710948.00W	332 (300)		AS1500	1800
FINAL: (RNP 0.30)	JAYSE	RW29	11. TREE (KBEDT1504)	422731.57N/0711452.30W	302 (1A)	21.77:1	AC3 MA59	646/523
2. PROCEDURE TURN	NA							
3. MISSED APPROACH — MAP:	DA	SOSYO	12. TREE (KBEDT2664)	422722.93N/0711452.23W	315 (1A)	ASC	AC3	2000
			13. AAO	423024.00N/0712636.00W	624 (3E)	1000	AC60	1700
ELEV:	314		14. TERRAIN	423024.00N/0712636.00W	424 (400)		AS1500	1900

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW29

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	AAO	289/ 27.2	2215 (4E)	3400					4

CITY AND STATE	ELEVATION: 132 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BEDFORD, MA	LAURENCE G HANSCOM FLD	RNAV	RNAV (RNP) Y RWY 29, ORIG	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
BED TOWER BOS APP CON ZBW ARTCC	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KBED DISTANCE: 0 HOURS REMOTE OPERATION: 24
SATISFACTORY ON: X V H F, X U H F, H F	LOCATION: KBED	ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3

5. APPROACH & RUNWAY LIGHTING		
		ALS
		(S) SALS
	X	MALSR 11 (PCL), 29 (PCL)
	X	HIRL 11 (PCL), 29 (PCL)
	X	MIRL 05 (PCL), 23 (PCL)
	X	REIL 05, 23
		TDZ
		C/LINE
	X	OTHER (SPECIFY) VASI-4R 23 PAPI-4L 11, 29 VASI-4L 05

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 11, 29
	INSTRUMENT	NPI-G 05, 23
7. RUNWAY VISUAL RANGE	APPROACH	11
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 123.0
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 54.7

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
DAVID SAUER	01/06/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

MAX SPEED HADEV TO ZOSLA - 210 KIAS.

VDP NOT ESTABLISHED - PRECISION APPROACH.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

KBED ASOS ON SERVICE A
VGSI DATA: 3.00/52

SEE ATTACHED AIRSPACE LETTER.

RASS PRESSURE PATTERNS SAME
KBED 132.0 KBOS 20.0
RA=48.2

RNP SLOPE: 21.77:1
AIRPORT ISA: 14.74
ACT: -16
AVERAGE COLD TEMPERATURE BASED ON 4 YEAR HISTORY (2006-2009).

EXXRO TRANSITION TIED TO DREEM (RNAV) STAR.

RF TURN RADIUS/BANK ANGLE COMPUTATIONS:

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	TR	BA
UJEGE-HADEV	4123	210	219.66	3991	54.90	2.6	24.33
HADEV-ZOSLA	3493	210	218.40	3361	53.65	2.6	23.82

TF TURN RADIUS/BANK ANGLE COMPUTATIONS:

SEGMENT	ALT	KIAS	KTAS	HAA	VKTW	BA
LWM-YANRU	7080	250	275.77	6948	70.21	18
EXXRO-UJEGE	5495	210	227.32	5363	59.91	18
MORIS-ZOSLA	3305	250	259.00	3173	50	18
ZOSLA-JAYSE	2300	210	259.00	2168	50	18

MAX SPEED EXXRO TO UJEGE, UJEGE TO HADEV, HADEV TO ZOSLA - 210 KIAS.

SEE ATTACHED VEB SPREADSHEET FOR INTERMEDIATE ROC COMPUTATIONS.

REDUCED RNP FINAL NOT DEVELOPED DUE TO INSUFFICIENT DISTANCE FROM DA TO SOSYO TO ALLOW EXPANSION TO FULL WIDTH WITH ENOUGH ROOM TO COMPLETE TURN.

MISSED APPROACH 40:1 SURFACE RAISED FOR PENETRATION BETWEEN DA AND COMON, NO 40:1 PENETRATIONS BETWEEN COMON AND SOSYO.

UTILIZED IPDS TO EVALUATE FINAL AND MISSED APPROACH SEGMENT, IAPA FOR ALL OTHER SEGMENTS.

ORDER 8260.3, VOLUME 1. "VISUAL PORTION OF FINAL" PENETRATIONS.
34:1
178 TREE (KBEDT1410) (20/3) 422802.34N/0711606.62W (13.97)
204 TREE (KBEDT1447) (20/3) 422800.29N/0711554.57W (12.86)
182 TREE (KBEDT1433) (20/3) 422809.82N/0711558.26W (2.46)
187 TREE (KBEDT1440) (20/3) 422800.60N/0711557.30W (1.94)
194 TREE (KBEDT1451) (20/3) 422807.80N/0711552.42W (0.94)

FPT NOTIFIED.

RADIO FIX AND HOLDING DATA RECORD

NAME: CFFGS **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422951.46N/0710631.26W **TYPE:** CNF

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: COMON **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422839.70N/0712150.39W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Z RWY 29			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. DELETED FAC 1, KBED R29.

DEVELOPED BY: **DATE:** 01/06/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: EXXRO **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423438.27N/0711135.48W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBED	BEDFORD	MA (US)
STAR	DREEM (RNAV)			KBVY	BEVERLY	MA (US)
STAR	DREEM (RNAV)			KLWM	LAWRENCE	MA (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED IAP TO REQUIRED CHARTING.
2. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: HADEV **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423012.56N/0710302.31W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: JAYSE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422731.76N/0710938.69W **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	DIST FROM FAC FEET	MRA	MAA
1	BEDFORD	I-ULJ	LOC/DME		113.14	097.14	4.81	6.41	38971	1800	4600
2	LAWRENCE	LWM	VOR/DME	L	204.83	189.83		17.14		1800	4600

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
I-ULJ DME COORDINATES: 422805.50N/0711606.17W.
8260.54A FORMULA 2-16B USED TO ESTABLISH FIX COORDINATES.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 29	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 29			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. MOVED FIX 438.94 FT EAST.
2. DELETED FAC 3, KBED R29.
3. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
4. ADDED FAC 1 DIST FROM FAC IN FT.
5. CHANGED ULJ DME COORDINATES FROM 422804.76N/0711606.58W TO 422805.50N/0711606.17W.
6. CHANGED REMARK "RNP PFAF FORMULA USED..." TO "8260.54A FORMULA 2-16B USED..."
7. CHANGED FAC 2 TRUE BRG FROM 190.07 TO 189.83.
8. CHANGED FAC 1 DME FROM 4.74 TO 4.81.

DEVELOPED BY: **DATE:** 01/06/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: LAWRENCE VOR/DME **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 424425.50N/0710541.43W **TYPE:**

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	LAWRENCE	LWM	VOR/DME	L							17500

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE	LWM	VOR/DME	056.61	236.61	R	1		2000	6000	4	13
2	NE		WP	056.61	236.61	R		4	2000	6000	4	14

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
1	310	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
2	200	TOWER (25-000052)	424622.00N/0710601.00W	869	5D
2	310	TOWER (25-000052)	424622.00N/0710601.00W	869	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC Z RWY 05	KLWM	LAWRENCE	MA (US)
1	VOR RWY 23 (ALT MISS)	KLWM	LAWRENCE	MA (US)
1	ILS OR LOC Y RWY 05	KLWM	LAWRENCE	MA (US)
1	NDB RWY 05	KLWM	LAWRENCE	MA (US)
2	RNAV (GPS) RWY 05	KLWM	LAWRENCE	MA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
IAP	ILS OR LOC RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 23			KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 11			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)
IAP	VOR RWY 23			KBED	BEDFORD	MA (US)
IAP	LOC RWY 16			KBVY	BEVERLY	MA (US)
IAP	VOR RWY 16			KBVY	BEVERLY	MA (US)
IAP	ILS OR LOC RWY 22L			KBOS	BOSTON	MA (US)
IAP	ILS RWY 15R			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC Y RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	ILS OR LOC Z RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	NDB RWY 05		1	KLWM	LAWRENCE	MA (US)
IAP	RNAV (GPS) RWY 05		2	KLWM	LAWRENCE	MA (US)
IAP	VOR RWY 23 (ALT MISS)		1	KLWM	LAWRENCE	MA (US)
IAP	NDB-A			K6B6	STOW	MA (US)
IAP	ILS OR LOC RWY 06			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 35			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT II)			KMHT	MANCHESTER	NH (US)
IAP	ILS RWY 35 (CAT III)			KMHT	MANCHESTER	NH (US)
IAP	RNAV (GPS) RWY 24			KMHT	MANCHESTER	NH (US)
IAP	VOR/DME OR GPS RWY 17			KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 14			KASH	NASHUA	NH (US)
IAP	RNAV (GPS) RWY 32			KASH	NASHUA	NH (US)
IAP	VOR RWY 32			KASH	NASHUA	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)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 10 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
UPDATE PATT1 COURSE AND TEMPLATES.
ADD HOLDING PATTERN 2.
UPDATE HOLDING OBSTRUCTION FOR CIH PATT 1, PATT2 AND CIH PATT2.
ADD CIH PATT 1 AND 2.
UPDATE FIX USE.

DEVELOPED BY:	**DATE:** 01/05/2011	**OFFICE:** AVN-110	**NAME:** DARRYEL ADAMS (ALLAN WILL)
APPROVED BY:	**DATE:** 05/11/2011	**OFFICE:** AVN-110	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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

RADIO FIX AND HOLDING DATA RECORD

NAME: MORIS **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422646.05N/0710134.39W **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	DIST FROM FAC FEET	MRA	MAA
1	BEDFORD	I-ULJ	LOC/DME		113.14	097.14	10.84	12.44		1800	4600
2	LAWRENCE	LWM	VOR/DME	L	185.20	170.20		17.91		1800	4600

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

REMARKS:
BEDFORD (FAC 1) AND LAWRENCE (FAC 2) USED TO ESTABLISH FIX COORDINATES
I-ULJ DME COORDINATES: 422805.50N/0711606.17W

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 29	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 29			KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. DELETED FAC 3, KBED R29.
2. ADDED FAC 1 AND 2 DIST FROM FAC IN NM.
3. CHANGED ULJ DME COORDINATES FROM 422804.76N/0711606.58W TO 422805.50N/0711606.17W
4. ADDED REMARK, BEDFORD (FAC 1) AND LAWRENCE (FAC 2) USED TO ESTABLISH FIX COORDINATES.

DEVELOPED BY: **DATE:** 01/06/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: SOSYO **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422914.45N/0712555.75W **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	DIST FROM FAC FEET	MRA	MAA
1	GARDNER	GDM	VOR/DME	L	111.00	097.00	28.00	28.00		2000	17500
2	MANCHESTER	MHT	VOR/DME	L	201.93	186.93		23.03		2000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	E	GDM	VOR/DME	111.00	291.00	R	1		2000	6000	4	6
2	SE		WP	113.00	293.00	R		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	423000.00N/0713133.00W	712	4E
2	200	AAO	423000.00N/0713133.00W	712	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
GARDNER (FAC 1) AND MANCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V431	1, 2				
IAP	ILS OR LOC RWY 29	1, 2		KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) Z RWY 29		2	KBED	BEDFORD	MA (US)
IAP	RNAV (RNP) Y RWY 29		2	KBED	BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 05			KLWM	LAWRENCE	MA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. ADDED REMARK, GARDNER (FAC 1) AND MANCHESTER (FAC 2) USED TO ESTABLISH FIX COORDINATES.
2. CHANGED PAT 1 TYPE FROM VORTAC TO VOR/DME.
3. REVISED REMARK "PRECIPITOUS TERRAIN EVALUATION COMPLETE" TO "...COMPLETED".

DEVELOPED BY: **DATE:** 04/16/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: UJEGE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423210.99N/0710456.82W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: YANRU **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423647.75N/0710415.35W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: ZOSLA **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 422716.65N/0710657.86W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (RNP) Y RWY 29			KBED	BEDFORD	MA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/02/2012 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** DARRYEL ADAMS

SIGNATURE:

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

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BEDFORD** STATE: **MA**

AIRPORT NAME: **LAURENCE G HANSCOM FLD** ID: **KBED**

PROCEDURE: **RNAV (RNP) Y RWY 29** AMDT: **ORIG**

DOCKET # :
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.76**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **277.22**
4. High Terrain in **FINAL** segment containing 1000' point **375**
5. Distance from **THLD** to 1500' point **5.09**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.20**
7. True Course of **FINAL** segment containing 1500' point **277.22**
8. High Terrain in **FINAL** segment containing 1500' point **375**
9. Threshold Coordinates (if straight-in) ... **422809.97N/** / **0711628.42W**
10. ARP Coordinates ..... **422811.80N** / **0711720.40W**
11. Runway Approach End and distance furthest from ARP.....RWY **29**
    Distance **0.64** NM
12. FAF Coordinates ..... **422731.76N** / **0710938.69W**
    (Click to Select)

REMARKS: Approach/Drawing attached.