U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

NDB STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.27

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
EEN VORTAC	ORE NDB	192.94 / 13.54	3600
GDM VOR/DME	ORE NDB	291.74 / 10.20	3400

MISSED APPROACH

MAP: ORE NDB

CLIMBING RIGHT TURN TO 3500 DIRECT GDM VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD E, RT, 291.96 INBOUND.
FAS OBST: 1595 AAO 423333N/0720909W
FAC CROSSES RWY C/L EXTENDED 3001 FROM THLD.

1. PT L SIDE OF COURSE 126.86 OUTBOUND 3400 FT WITHIN 10 MILES OF ORE NDB (IAF)
2.
3. FAC 306.86 FAF DIST FAF TO MAP THLD
4. MIN. ALT
8. MSA FROM: ORE NDB 080-260 3300, 260-080 4400

MAG VAR: 15W EPOCH YEAR: 2005

MINIMUMS

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

ALTERNATE: N A X

CATEGORY =====>	A			B			C			D			E		
	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA	MDA	VIS	HAT/HAA
S-32	1960	1 1/4	1415	1960	1 1/2	1415		NA			NA				
CIRCLING	1960	1 1/4	1404	1960	1 1/2	1404		NA			NA				

NOTES:

CHART NOTE: PROCEDURE NA AT NIGHT.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE KEENE ALTIMETER SETTING AND INCREASE ALL MDA 60 FEET.

CITY AND STATE	ELEVATION: 556 THRE: 545 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
ORANGE, MA	ORANGE MUNI	ORE	NDB RWY 32, AMDT 1	AMDT ORIG
				DATE 03/15/2007

FAA FORM 8260-5 / April 2006 (computer generated)

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO	NDB: 423407.00N / 0721710.09W, 3RD PARTY SURVEY	ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] ZBW ARTCC, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: DONALD E. SMITH (ROBERT DAVIS)	FIFO AJV-352	DATE: 09/14/2011
APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. REMOVED CAT C MINIMUM.
2. 2000 FT MOUNTAINOUS TERRAIN APPLIED TO FEEDERS AND ALTITUDES ADJUSTED ACCORDINGLY.
3. MOUNTAINOUS REDUCTION APPLIED TO FEEDERS TO LOWER MINIMUM ALTITUDE.
4. UPDATED HATS/HAAS TO REFLECT THRE VS TDZE.
5. FINAL APPROACH COURSE CHANGED FROM 307.11M TO 306.86M.
6. ADDED PROCEDURE NA AT NIGHT NOTE.
7. ADDED NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA".
8. ADDED BACKUP ALTIMETER AND APPROPRIATE MDA ADJUSTMENTS.
9. RAISED S-32 AND CIRCLING CATS A/B MDA FROM 1860 TO 1960.
10. RAISED PT COMPLETION ALTITUDE FROM 3300 TO 3400.

REASONS:

1. PER FPT.
2. 8260.3B PARA. 202. AND 8260.19D PARA. 272. (5).
3. 8260.3B PARA. 1720 B (1).
4. NEW CRITERIA, 8260.3B CHG. 20.
5. NEW LAT/LONG FOR FINAL APPROACH NAVAID.
6. DUE TO VISI 20:1 AND 34:1 PENETRATIONS
7. 8260.19D PARA. 854 I (3).
8. CURRENT AVN DIRECTIVE.
9. UPDATED OBSTACLE DATA.
10. 1500 FT AIRSPACE APPLIED.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FEEDER	EEN VORTAC	ORE NDB	1. TREE	424721.94N/0721223.82W	2042 (2C)	2000	MT-442	3600
			2. TERRAIN	424721.94N/0721223.82W	1942 (1900)		AS1500	3400
FEEDER	GDM VOR/DME	ORE NDB	3. TREE	423333.00N/0720909.00W	1495 (2C)	2000	MT-95	3400
			4. TERRAIN	423333.00N/0720909.00W	1395 (1400)		AS1500	2900
FINAL: PT	10 NM	ORE NDB	5. AAO	423333.00N/0720909.00W	1595 (2C)	350		1960
2. PROCEDURE TURN	ORE NDB	10 NM	6. AAO	422930.00N/0715327.00W	2094 (4E)	1000		3100
			7. TERRAIN	422930.00N/0715327.00W	1894 (1900)		AS1500	3400
3. MISSED APPROACH — MAP:	ORE NDB	GDM VOR/DME				ASC		3500
			5. AAO	423333.00N/0720909.00W	1595 (2C)	1000		2600
ELEV:	1610		5. TERRAIN	423333.00N/0720909.00W	1395 (1400)		AS1500	2900
8. TREE (KORET2236)				423437.55N/0721912.73W	950 (1A)	300	SI	1960
8. TREE (KORET2236)				423437.55N/0721912.73W	950 (1A)	300	SI	1960

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	1404
CATEGORY B	1.5 NM	450	1404
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: ORE NDB

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
080-260	AAO	120/ 18.4	2215 (2C)	3300					
260-080	AAO	039/ 19.3	3369 (6A)	4400					

CITY AND STATE	ELEVATION: 556 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ORANGE, MA	ORANGE MUNI	ORE	NDB RWY 32, AMDT 1	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZBW ARTCC BDR FSS		N W S	OTHER: ASOS	SOURCE: KORE / KEEN
		F A A		DISTANCE: 0 / 19.71
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: 24
X V H F X U H F H F	LOCATION:			ADJUSTMENT: 0 / 55

4. MONITOR STATUS	PRIMARY NAVAID: ORE NDB	
	MONITOR POINT: UNMONITORED	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	24
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 01 (PCL), 19 (PCL), 14 (PCL), 32 (PCL)
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC BSC-G 19	
	ALL WEATHER	
	INSTRUMENT NPI-G 01, 14, 32	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD 3001 FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (ROBERT DAVIS)	DATE: 09/14/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - OBSTACLES PENETRATE 20:1, FINAL FACILITY DOES NOT HAVE DME AND FINAL IS NO-FAF WITHOUT STEPDOWN OR VGSI.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

KORE ASOS ON SERVICE A
KEEN AWOS ON SERVICE A

RASS PRESSURE PATTERNS SAME
KORE 555.6 MSL, KEEN 488.0 MSL
RA = 54.80 FT.
SEE ATTACHED AIRSPACE LETTER.

PROCEDURE CAT A & B ONLY PER FPT.

OBS #5 AC PREVIOUS PROCEDURE.
OBS #3 AC DERIVED BY PLACING 100 FT TREE AT OBS #5 200 FT AAO.

100' VEGETATION HEIGHT USED PER PREVIOUS PROCEDURES.

TERPS PARA 251 20:1 PENETRATIONS
R19
619 KORET0079 TREE 423436.27N-0721726.34W (18.37)
615 KORET0076 TREE 423436.78N-0721724.78W (11.73)
609 KORET0081 TREE 423435.78N-0721727.26W (10.88)
615 KORET0074 TREE 423437.47N-0721726.58W (8.31)
595 KORET0086 TREE 423434.50N-0721728.83W (3.42)
610 KORET0072 TREE 423437.73N-0721724.89W (1.93)
R01
643 KORET0297 TREE 423328.64N-0721730.08W (32.75)
629 KORET0284 TREE 423331.02N-0721721.00W (31.14)
646 KORET0311 TREE 423326.65N-0721726.52W (25.81)
622 KORET0285 TREE 423330.85N-0721722.95W (23.20)
623 KORET0288 TREE 423330.17N-0721723.94W (20.72)
643 KORET0316 TREE 423326.11N-0721730.01W (19.95)
630 KORET0298 TREE 423328.50N-0721728.40W (19.10)
619 KORET0287 TREE 423330.22N-0721722.33W (17.04)
639 KORET0317 TREE 423326.06N-0721728.59W (15.75)
638 KORET0315 TREE 423326.14N-0721720.02W (15.48)
622 KORET0293 TREE 423329.31N-0721727.54W (15.23)
622 KORET0296 TREE 423329.16N-0721725.68W (14.55)
634 KORET0312 TREE 423326.57N-0721721.59W (13.60)
630 KORET0309 TREE 423326.94N-0721720.25W (11.52)
637 KORET0323 TREE 423325.47N-0721727.09W (10.82)
620 KORET0299 TREE 423328.40N-0721722.73W (8.81)
634 KORET0322 TREE 423325.56N-0721725.61W (8.33)
627 KORET0310 TREE 423326.80N-0721724.27W (7.66)
614 KORET0295 TREE 423329.17N-0721723.89W (6.66)
623 KORET0306 TREE 423327.38N-0721723.37W (6.63)
628 KORET0325 TREE 423325.33N-0721721.71W (1.32)
634 KORET0331 TREE 423324.13N-0721725.62W (1.10)
FPT NOTIFIED

TERPS, VOLUME 1. "VISUAL PORTION OF FINAL" PENETRATIONS

20:1
944 TREE 423342.44N-0721532.87W (56.25)
944 TREE 423341.57N-0721532.87W (53.59)
944 TREE 423339.91N-0721532.02W (45.99)
926 25-000681 TOWER 423342.40N-0721530.90W (32.25)
915 KORET1791 COMMUNICATION TW 423342.51N-0721530.58W
CONT.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
3. MISSED APPROACH	MAP:							
	ELEV:							

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:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	ELEVATION: 556 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ORANGE, MA	ORANGE MUNI	ORE	NDB RWY 32, AMDT 1	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	N W S / F A A / A / C — OTHER:	SOURCE:
		DISTANCE:
		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:	ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
(20.63)
898 KORET1778 TREE 423343.13N-0721531.95W (9.61)
903 KORET1793 TREE 423341.37N-0721531.56W (8.07)
34:1
873 KORET1766 TREE 423344.03N-0721532.81W (129.13)
875 KORET1807 TREE 423343.04N-0721527.61W (120.23)
856 KORET1763 TREE 423342.36N-0721535.02W (113.01)
847 KORET1740 TREE 423346.09N-0721535.39W (111.36)
856 KORET1782 TREE 423345.62N-0721528.61W (107.62)
837 KORET1760 TREE 423347.95N-0721530.10W (95.42)
848 KORET1811 TREE 423338.24N-0721531.14W (90.80)
814 KORET1721 TREE 423345.94N-0721538.91W (84.27)
818 KORET1735 TREE 423348.90N-0721533.49W (84.07)
803 KORET1709 TREE 423349.10N-0721537.69W (76.80)
829 KORET1806 TREE 423346.07N-0721524.75W (74.66)
811 KORET1741 TREE 423342.59N-0721538.42W (74.39)
830 KORET1815 TREE 423343.27N-0721523.97W (69.26)
979 KORET2048 TREE 423335.80N-0721404.53W (65.48)
793 KORET1727 TREE 423351.53N-0721532.27W (61.66)
826 KORET1820 TREE 423345.04N-0721519.47W (60.54)
780 KORET1699 TREE 423352.88N-0721535.85W (57.36)
803 KORET1776 TREE 423339.45N-0721535.93W (56.38)
775 KORET1692 TREE 423346.78N-0721543.49W (54.81)
770 KORET1678 TREE 423350.69N-0721541.92W (54.08)
801 KORET1781 TREE 423349.84N-0721524.55W (53.08)
770 KORET1689 TREE 423351.85N-0721539.10W (51.21)
790 KORET1752 TREE 423351.64N-0721527.53W (50.54)
963 KORET2047 TREE 423332.70N-0721406.80W (47.89)
756 KORET1659 TREE 423349.25N-0721547.35W (47.02)
954 KORET2046 TREE 423335.57N-0721408.48W (47.00)
817 KORET1825 TREE 423342.27N-0721518.88W (45.53)
773 KORET1726 TREE 423342.80N-0721541.34W (41.89)
743 KORET1634 TREE 423349.54N-0721551.40W (41.64)
804 KORET1818 TREE 423339.36N-0721526.07W (39.92)
748 KORET1658 TREE 423346.95N-0721549.75W (39.10)
740 KORET1635 TREE 423356.39N-0721544.10W (38.14)
753 KORET1676 TREE 423354.76N-0721538.34W (38.11)
654 KORET1066 TREE 423353.69N-0721635.67W (37.77)
804 KORET1822 TREE 423340.69N-0721523.39W (37.61)
737 KORET1630 TREE 423351.45N-0721550.51W (37.51)
774 KORET1972 TREE 423353.27N-0721527.49W (37.40)
1042 TREE 423309.51N-0721338.92W (36.32)
731 KORET1617 TREE 423354.16N-0721550.11W (35.68)
795 KORET1814 TREE 423336.07N-0721532.02W (35.45)
648 KORET1073 TREE 423355.70N-0721635.20W (34.55)
653 KORET1062 TREE 423356.95N-0721630.96W (34.36)
762 KORET1971 TREE 423354.15N-0721531.23W (33.54)
791 KORET1812 TREE 423346.98N-0721521.74W (33.01)
953 KORET2142 TREE 423336.78N-0721359.68W (32.74)
650 KORET1063 TREE 423354.32N-0721634.14W (32.22)
727 KORET1943 TREE 423358.51N-0721545.84W (32.00)
806 KORET1828 TREE 423343.20N-0721516.12W (31.36)
732 KORET1632 TREE 423354.16N-0721547.04W (31.29)
635 KORET1097 TREE 423402.72N-0721633.56W (31.28)
651 KORET1055 TREE 423358.45N-0721627.96W (29.79)
740 KORET1665 TREE 423354.11N-0721541.41W (29.33)
752 KORET1703 TREE 423343.60N-0721544.75W (28.31)
619 KORET1116 TREE 423407.34N-0721636.17W (28.16)
641 KORET1076 TREE 423400.33N-0721630.79W (28.13)
949 KORET2009 TREE 423332.62N-0721403.18W (27.40)
1022 KORET2010 TREE 423313.30N-0721340.50W (25.90)
634 KORET1088 TREE 423357.16N-0721636.73W (25.86)
641 KORET1070 TREE 423356.38N-0721633.40W (25.62)
628 KORET1100 TREE 423401.52N-0721635.46W (25.46)
646 KORET1056 TREE 423355.43N-0721631.26W (25.16)
636 KORET1081 TREE 423402.22N-0721629.72W (24.65)
CONT.

QUALITY CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
3. MISSED APPROACH	MAP:							
	ELEV:							

4. CIRCLING AREA	DISTANCE		HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL						
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:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ORANGE, MA	**ELEVATION: 556** AIRPORT NAME: **ORANGE MUNI**	**ORE**	**NDB RWY 32, AMDT 1**	**ANE**

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:		N W S	OTHER:	SOURCE:
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
V H F / U H F / H F	LOCATION:			ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

CONTINUED.
643 KORET1061 TREE 423358.43N-0721629.33W (24.16)
630 KORET1089 TREE 423400.62N-0721633.98W (23.25)
647 KORET1047 TREE 423355.61N-0721629.33W (23.09)
645 KORET1050 TREE 423354.20N-0721631.84W (22.96)
929 KORET2004 TREE 423332.41N-0721412.08W (22.64)
643 KORET1057 TREE 423357.34N-0721629.44W (22.39)
921 KORET2042 TREE 423334.91N-0721413.41W (21.46)
637 KORET1067 TREE 423404.67N-0721624.71W (21.26)
624 KORET1099 TREE 423405.45N-0721631.25W (21.13)
728 KORET1654 TREE 423352.12N-0721545.48W (20.89)
636 KORET1071 TREE 423358.19N-0721631.67W (20.83)
629 KORET1083 TREE 423400.47N-0721632.87W (20.03)
635 KORET1069 TREE 423359.06N-0721630.62W (19.55)
765 KORET1976 TREE 423352.10N-0721523.59W (19.45)
711 KORET1610 TREE 423352.70N-0721553.69W (19.34)
707 KORET1600 TREE 423355.90N-0721552.58W (19.14)
599 KORET1127 TREE 423409.37N-0721640.19W (18.86)
636 KORET1064 TREE 423400.30N-0721628.18W (18.50)
711 KORET1612 TREE 423356.87N-0721548.83W (18.30)
588 KORET1140 TREE 423409.89N-0721645.23W (17.63)
735 KORET1685 TREE 423343.09N-0721548.87W (17.62)
644 KORET1041 TREE 423352.65N-0721630.72W (17.22)
641 KORET1045 TREE 423351.86N-0721632.92W (16.66)
931 KORET2005 TREE 423329.85N-0721409.74W (15.93)
627 KORET1080 TREE 423404.22N-0721627.56W (15.45)
615 KORET1103 TREE 423401.51N-0721637.15W (15.41)
641 KORET1042 TREE 423354.17N-0721629.27W (14.40)
637 KORET1049 TREE 423357.22N-0721628.11W (13.84)
631 KORET1065 TREE 423355.14N-0721633.64W (13.81)
723 KORET1667 TREE 423342.49N-0721553.04W (11.86)
713 KORET1643 TREE 423345.48N-0721554.27W (9.39)
1003 KORET2018 TREE 423317.57N-0721337.34W (9.03)
737 KORET1716 TREE 423327.30N-0721558.93W (8.91)
774 KORET1821 TREE 423347.44N-0721516.94W (8.42)
764 KORET1809 TREE 423349.99N-0721519.92W (8.22)
1008 KORET2016 TREE 423314.73N-0721336.15W (6.84)
615 KORET1086 TREE 423359.24N-0721634.40W (6.51)
1013 KORET2015 TREE 423311.13N-0721336.73W (6.39)
613 KORET1090 TREE 423356.95N-0721637.78W (6.32)
1003 TREE 423308.31N-0721345.01W (5.84)
1001 KORET1872 TREE 423311.08N-0721342.59W (4.58)
927 KORET2008 TREE 423329.95N-0721405.16W (4.08)
1008 KORET1874 TREE 423309.62N-0721339.52W (3.57)
715 KORET1668 TREE 423341.02N-0721554.34W (3.50)
726 KORET1705 TREE 423335.52N-0721552.81W (1.94)
710 KORET1660 TREE 423340.50N-0721556.11W (0.67)
706 KORET1648 TREE 423342.27N-0721556.30W (0.18)
FPT NOTIFIED

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ORANGE NDB **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 423407.00N/0721710.09W **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	ORANGE	ORE	NDB	MH							17500

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	NDB RWY 1			KORE	ORANGE	MA (US)
IAP	NDB RWY 32			KORE	ORANGE	MA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 02/09/2012

REASON FOR REVISION:
FACILITY LAT/LONG UPDATED.
CANCELLED UNPLANNED HOLDING.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 09/06/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (ROBERT DAVIS)

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

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

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

INFO ONLY

LATITUDE/LONGITUDE: 423245.42N/0720329.48W **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	DIST FROM FAC FEET	MRA	MAA
1	GARDNER	GDM	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	E	GDM	VOR/DME	111.96	291.96	R	1		3500	8000	4	8
2	NW	GDM	VOR/DME	298.00	118.00	L	1-1 1/2		4000	17500	4	16
3	W	GDM	VOR/DME	276.81	096.81	R	1		3000	6000	4	5
4	NW	GDM	VOR/DME	293.78	113.78	L	1-1 1/2		7000	29000	8	22
5	NW		WP	295.37	115.37	L		10	13000	18000	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	422930.00N/0715324.00W	2143	4E
2	200	AAO	423333.00N/0720909.00W	1595	4E
3	200	AAO	423333.00N/0720909.00W	1595	4E
3	310	AAO	422921.00N/0715312.00W	2215	4E
4	230	AAO	423333.00N/0720909.00W	1595	4E
5	265	AAO	422921.00N/0715312.00W	2215	4E

REASON FOR NONSTANDARD HOLDING:
PAT 2 ATC REQUEST
PAT 4 ATC REQUEST
PAT 5 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
3	VOR-A	KGDM	GARDNER	MA (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE.
PAT 5-ATC REQUESTED 10NM LEG LENGTH.
CHART PAT 2 ENROUTE LOW.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	TAKEOFF MINIMUMS			KORE	ORANGE	MA (US)
DP	TAKEOFF MINIMUMS			KAFN	JAFFREY	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	PEASE			KPSM	PORTSMOUTH	NH (US)
DP	TANKER			KPSM	PORTSMOUTH	NH (US)
EN ROUTE	V106					(US)
EN ROUTE	V14		2			(US)
EN ROUTE	V151					(US)
EN ROUTE	V2		2			(US)
EN ROUTE	V229					(US)
EN ROUTE	V39					(US)
EN ROUTE	V431					(US)
EN ROUTE	ZBW		2, 4			MA (US)
IAP	ILS OR LOC RWY 29			KBED	BEDFORD	MA (US)
IAP	NDB RWY 29			KBED	BEDFORD	MA (US)
IAP	ILS OR LOC RWY 27			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC/DME RWY 15R			KBOS	BOSTON	MA (US)
IAP	RNAV (GPS) RWY 15R			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 15R			KBOS	BOSTON	MA (US)
IAP	NDB RWY 20			KFIT	FITCHBURG	MA (US)
IAP	NDB-A			KFIT	FITCHBURG	MA (US)
IAP	RNAV (GPS) RWY 14			KFIT	FITCHBURG	MA (US)
IAP	RNAV (GPS) RWY 20			KFIT	FITCHBURG	MA (US)
IAP	VOR-A		3	KGDM	GARDNER	MA (US)
IAP	VOR OR GPS-A			K0B5	MONTAGUE	MA (US)
IAP	LOC RWY 35			KOWD	NORWOOD	MA (US)
IAP	NDB RWY 1		1	KORE	ORANGE	MA (US)
IAP	NDB RWY 32		1	KORE	ORANGE	MA (US)
IAP	VOR-A			KORE	ORANGE	MA (US)
IAP	VOR/DME-B			K3B0	SOUTHBRIDGE	MA (US)

IAP	RNAV (GPS) RWY 21		K6B6	STOW	MA (US)
IAP	VOR/DME RWY 21		K6B6	STOW	MA (US)
IAP	ILS OR LOC RWY 20		KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	ILS OR LOC RWY 11		KORH	WORCESTER	MA (US)
IAP	ILS OR LOC RWY 29		KORH	WORCESTER	MA (US)
IAP	NDB RWY 11		KORH	WORCESTER	MA (US)
IAP	RNAV (GPS) RWY 33		KORH	WORCESTER	MA (US)
IAP	VOR/DME RWY 33		KORH	WORCESTER	MA (US)
IAP	VOR OR GPS-A		KAFN	JAFFREY	NH (US)
IAP	ILS OR LOC RWY 2		KEEN	KEENE	NH (US)
IAP	RNAV (GPS) RWY 2		KEEN	KEENE	NH (US)
IAP	VOR RWY 2		KEEN	KEENE	NH (US)
IAP	ILS OR LOC RWY 6		KMHT	MANCHESTER	NH (US)
IAP	ILS OR LOC RWY 6		KMHT	MANCHESTER	NH (US)
STAR	GRAYM		KBED	BEDFORD	MA (US)
STAR	GRAYM		KBVY	BEVERLY	MA (US)
STAR	GARDNER	4	KBOS	BOSTON	MA (US)
STAR	QUABN (RNAV)	5	KBOS	BOSTON	MA (US)
STAR	GRAYM		KFIT	FITCHBURG	MA (US)
STAR	GRAYM		KLWM	LAWRENCE	MA (US)
STAR	POPPP		KMHT	MANCHESTER	NH (US)
STAR	PONEE		KISP	NEW YORK	NY (US)
STAR	PONEE		KFOK	WESTHAMPTON BEACH	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 17 **DATE OF REVISION:** 12/15/2011

REASON FOR REVISION:
1. ADDED PAT 5.
2. ADDED REMARK, PAT 5-ATC REQUESTED 10NM LEG LENGTH.
3. CHANGED PAT 4 MIN ALTITUDE/TEMPLATE FROM 10000/9 TO 7000/8.
4. CHANGED PAT 4 CRS INBOUND FROM 114.00 TO 113.78.
5. ADDED REMARK, CHART PAT 2 ENROUTE LOW.
6. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 06/27/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (DAVID SAUER)

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

SIGNATURE:

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: KEENE VORTAC **STATE:** NH **COUNTRY:** US

INFO ONLY

LATITUDE/LONGITUDE: 424739.40N/0721730.40W **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	DIST FROM FAC FEET	MRA	MAA
1	KEENE	EEN	VORTAC	L							17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE

NUMEROUS ESVS ON FILE

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	SW	EEN	VORTAC	203.80	023.80	L	1		2900	6000	4	5
2	N		WP	011.00	191.00	R		4	3000	6000	5	6
3	N	EEN	VORTAC	011.00	191.00	R	1		3000	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	424721.00N/0721248.00W	1854	4E
2	200	AAO	424721.00N/0721224.00W	1989	4E
3	200	AAO	424721.00N/0721248.00W	1854	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 ATC REQUEST

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRADLEY			KBDL	WINDSOR LOCKS	CT (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	TAKEOFF MINIMUMS			KEEN	KEENE	NH (US)
DP	WHITE RIVER			KLEB	LEBANON	NH (US)
DP	MANCHESTER			KMHT	MANCHESTER	NH (US)
DP	BURLINGTON			KBTV	BURLINGTON	VT (US)
EN ROUTE	V151					(US)
EN ROUTE	V229					(US)
EN ROUTE	V431					(US)
EN ROUTE	V93					(US)
IAP	RNAV (GPS) RWY 14			KFIT	FITCHBURG	MA (US)
IAP	VOR OR GPS-A			K0B5	MONTAGUE	MA (US)
IAP	NDB RWY 1			KORE	ORANGE	MA (US)
IAP	NDB RWY 32			KORE	ORANGE	MA (US)
IAP	ILS OR LOC RWY 20			KBAF	WESTFIELD/SPRINGFIELD	MA (US)
IAP	VOR OR GPS-A			KAFN	JAFFREY	NH (US)
IAP	ILS OR LOC RWY 2		3	KEEN	KEENE	NH (US)
IAP	RNAV (GPS) RWY 2		2	KEEN	KEENE	NH (US)
IAP	VOR RWY 2		1	KEEN	KEENE	NH (US)
IAP	VOR/DME RWY 1			KRUT	RUTLAND	VT (US)
IAP	LOC/DME RWY 5			KVSF	SPRINGFIELD	VT (US)
IAP	RNAV (GPS) RWY 5			KVSF	SPRINGFIELD	VT (US)
STAR	POPPP			KMHT	MANCHESTER	NH (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
UPDATED FIX USE.
MOVED HOLDING NOTE FROM REMARKS TO HOLDING RESTRICTIONS.
REMOVED PAT 3 AND PAT 3 OBSTRUCTIONS

QUALITY CHECKED

DEVELOPED BY:	**DATE:** 02/16/2010	**OFFICE:** AVN-110	**NAME:** PETER GETZ (DAN POWELL)
APPROVED BY:	**DATE:**	**OFFICE:** AVN-110	**NAME:** GEORGE DAVIS
	SIGNATURE:		

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

QUALITY CHECKED 9

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **ORANGE** STATE: **MA**

AIRPORT NAME: **ORANGE MUNI** ID: **KORE**

PROCEDURE: **NDB RWY 32** AMDT: **1**

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 **FACILITY** to 1000' point **7.00**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **4.80**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **291.86**
4. High Terrain in **FINAL** segment containing 1000' point **1395**
5. Distance from **FACILITY** to 1500' point **7.00**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **4.80**
7. True Course of **FINAL** segment containing 1500' point **291.86**
8. High Terrain in **FINAL** segment containing 1500' point **1395**
9. Threshold Coordinates (if straight-in) ... ***423412.51N / 0721700.36W**
10. ARP Coordinates ..... **423412.00N / 0721718.59W**
11. Runway Approach End and distance furthest from ARP.....RWY **1**
    Distance **0.53** NM
12. FAF Coordinates ..... _____ / _____
    (Click to Select)

REMARKS: Approach/Drawing attached. *DISPLACED THRESHOLD