U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

TACAN STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICE - TITLE 14 CFR PART 97.23

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
LFV VOR/DME	CISCO/FMH 12.00 DME	250.33 / 18.97	3000
CISCO/FMH 12.00 DME CCW (IAF)	TAVOE/FMH 12.00 DME	12.00 DME ARC	3000
PVD VORTAC (IAF)	TAVOE/FMH 12.00 DME	100.25 / 30.66	3000
TAVOE/FMH 12.00 DME (IF)	LIGTE/FMH 6.00 DME	134.00 / 6.00 (FMH R-314)	1700

MISSED APPROACH

MAP: 4.00 MILES AFTER LIGTE/6.00 DME OR AT HOKAM/FMH 2.00 DME FIX

CLIMB TO 1400 THEN CLIMBING LEFT TURN TO 3000 VIA FMH TACAN R-045 TO CISCO/FMH 12.00 DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD NE, RT, 225.00 INBOUND.
CHART FAS OBST: 329 TOWER 414203N/0703517W
CHART R-4101.
CHART FMH R-045 AT CISCO.
LIGTE TO RW14: 2.98/47.
FAC CROSSES RWY C/L EXTENDED 2977 FROM THLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT TAVOE/FMH 12.00 DME
3. FAC 134.00 FAF LIGTE/FMH 6.00 DME DIST FAF TO MAP 4.00 THLD 4.82
4. MIN. ALT TAVOE 3000, LIGTE 1700
8. MSA FROM: FMH TACAN 090-270 1800, 270-090 2200

MAG VAR: 15W EPOCH YEAR:1980

MINIMUMS

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

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-14	580	1	450	580	1	450	580	1 3/8	450	580	1 3/8	450			
CIRCLING	580	1	450	580	1	450	580	1 1/2	450	680	2	550			

NOTES:

CHART NOTE: CIRCLING NA NE OF RWY 14 AND NW OF RWY 23.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LFV VOR/DME VIA V167 NORTHEAST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON PVD VORTAC AIRWAY RADIALS 093 CW 132.

CITY AND STATE	ELEVATION: 130 THRE: 130	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP
FALMOUTH, MA	AIRPORT NAME: CAPE COD COAST GUARD AIR STATION	FMH	TACAN RWY 14, AMDT 2	AMDT 1
				DATE 05/07/2009

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[ ]	[X]	[X]	[X] **FMH ATCT, CAPE APP CON, AIRFIELD MANAGEMENT/U.S.C.G..**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **TERENCE D. SHARP (JONATHAN MYERS)**	FIFO **AJV-351**	DATE: **07/10/2012**
APPROVED BY		
NAME: **DARRYEL ADAMS**	FIFO **AJV-352**	DATE:

CHANGES:

1. REMOVED "CHART VDP AT 2.57 DME." AND "DISTANCE VDP TO THLD 1.40 MILES.".
2. REMOVED "CHART 460 WIND TURBINE 414149N/0703514W".
3. CHANGED "LIGTE TO RW14: 2.98/45" TO "LIGTE TO RW14: 2.98/47".
4. REMOVED RECKU SDF FROM PROCEDURE AND LINE 3.
5. RAISED S-14 MINIMUMS CAT A/B FROM 540/410 TO 580/450, C/D FROM 540/1 1/4 /410 TO 580/1 3/8 /450
6. REMOVED NOTE "VGSI AND DESCENT ANGLES NOT COINCIDENT.".
7. REMOVED "CHART 322 TOWER 414149N/0703514W".
8. LOWERED FEEDER AND INITIAL SEGMENTS FROM 3500 FT TO 3000 FT.

REASONS:

1. VDP NA DUE TO PROXIMITY TO MAP.
2. OBSTACLE WAS PENDING IN PREVIOUS AMENDMENT AND DOES NOT EXIST PER OE GROUP BLAICH EMAIL .
3. NEW DESCENT ANGLE DUE TO REMOVAL OF RECKU SDF AND NEW OBSTACLE IN FINAL.
4. NO LONGER NEEDED WITH NEW FINAL CONTROLLING OBSTACLE.
5. NEW STRAIGHT IN MINIMUMS DUE TO NEW FINAL CONTROLLING OBSTACLE.
6. VGSI AND DESCENT ANGLES NOW FALL WITHIN 0.2 TOLERANCE.
7. HIGHER CONTROLLING FINAL OBSTACLE RIGHT NEXT TO 322 TOWER.
8. SAVE ATC A CARDINAL ALTITUDE, LOWERED PER ATC WRIGHT EMAIL.

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	LFV VOR/DME	CISCO/FMH 12.00	1. AAO	420050.40N/0700212.10W	358 (6C)	1000	AT1642	3000
		DME	2. TERRAIN	420050.40N/0700212.10W	158 (200)		AS1500	1700
INITIAL: ARC	CISCO/FMH 12.00	TAVOE/FMH 12.00	3. AAO	415509.00N/0703524.00W	578 (4E)	1000	AT1422	3000
	DME CCW	DME	4. TERRAIN	415509.00N/0703524.00W	378 (400)		AS1500	1900
INITIAL	PVD VORTAC	TAVOE/FMH 12.00	5. TOWER (25-000576)	414639.00N/0705539.00W	872 (5D)	1000	AT1128	3000
		DME	6. TERRAIN	414327.00N/0710336.00W	361 (400)		AS1500	1900
INTERMEDIATE	TAVOE/FMH 12.00	LIGTE/FMH 6.00	7. AAO	414233.00N/0704315.00W	338 (4E)	500	AC98 DG764	1700
	DME	DME	8. TERRAIN	414233.00N/0704315.00W	138 (100)		AS1500	1600
FINAL	LIGTE/FMH 6.00	4.00 MILES AFTER	9. TOWER (25-000572)	414203.12N/0703517.14W	329 (2C)	250		580
	DME	LIGTE/FMH 6.00 DME						
		OR AT HOKAM/FMH						
		2.00 DME FIX						
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	4.00 MILES AFTER	CISCO/FMH 12.00				ASC		3000
	LIGTE/FMH 6.00 DME	DME	10. AAO	414434.30N/0702838.80W	500 (6C)	1000		1500
ELEV:	330		11. TERRAIN	414434.30N/0702838.80W	300 (300)		AS1500	1800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	450	12. TOWER (25-020498)	413929.23N/0703227.42W	275 (2C)	300		580
CATEGORY B	1.5 NM	450	450	12. TOWER (25-020498)	413929.23N/0703227.42W	275 (2C)	300		580
CATEGORY C	1.7 NM	450	450	12. TOWER (25-020498)	413929.23N/0703227.42W	275 (2C)	300		580
CATEGORY D	2.3 NM	550	550	13. WMILL (25-020149)	414023.06N/0703504.51W	320 (1A)	300	HAA	680
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: FMH TACAN

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
090-270	TWR (25-000222)	278/ 18.3	585 (5D)	1800					
270-090	TWR (25-000576)	306/ 19.9	872 (5D)	2200					

CITY AND STATE	ELEVATION: 130 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
FALMOUTH, MA	CAPE COD COAST GUARD AIR STATION	FMH	TACAN RWY 14, AMDT 2	ANE

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
FMH TOWER CAPE APP CON	N W S	OTHER: AWOS-3	SOURCE: KFMH
	F A A		DISTANCE:
	A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:			
X V H F X U H F H F	LOCATION: KFMH		ADJUSTMENT: 0

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

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 23, 32
X	HIRL 05, 23, 14, 32
	MIRL
X	REIL 05, 14
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 05, 23, 14, 32

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 05, 23, 14, 32
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	23, 32
	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 2977	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: TERENCE D. SHARP (JONATHAN MYERS)	DATE: 07/10/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-351

PART C - REMARKS:

VDP NOT ESTABLISHED - VDP IS LESS THAN 0.5NM BEFORE MAP.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI DATA: 3.00/47'

BLOCKS 2 & 3: BACKUP ALTIMETER NOT REQUIRED DUE TO REDUNDANT LOCAL SOURCES. 24/7 CONTRACT TWR AND WEATHER SERVICES PER USCG CDR STEVE TORPEY.
BLOCK 4: MONITOR POINT: FMH APP CON CAT 1: 24 HRS.

NO ADDITIONAL AIRSPACE REQUIRED.

FAF TO MAP DISTANCE IDENTIFIED IN ORDER TO PUBLISH TIME/DISTANCE TABLE PER USCG REQUEST.

MSA HIGHER THAN REQUIRED TO MATCH PREVIOUSLY PUBLISHED PROCEDURE.

VOR/DME FACILITY USED AS A FEEDER FIX ON A TACAN APPROACH AT USCG REQUEST.

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CISCO **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 414955.88N/0702251.14W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	OTIS	FMH	TACAN	L	045.00	030.00	12.00	12.00		3000	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	NE	FMH	TACAN	045.00	225.00	R	1		3000	4000	8	8

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	265	STACK (25-000198)	414612.00N/0703033.00W	510	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	TACAN RWY 05	1	1	KFMH	FALMOUTH	MA (US)
IAP	TACAN RWY 14	1	1	KFMH	FALMOUTH	MA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED VALUE UNDER NM "DIST FROM FAC"
UPDATED FACILITY
UPDATED FIX/USE

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (JONATHAN MYERS)

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

SIGNATURE:

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

QUALITY CHECKED 1

RADIO FIX AND HOLDING DATA RECORD

NAME: HOKAM **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 414030.51N/0703312.77W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	OTIS	FMH	TACAN	L	314.00	299.00	2.00	2.00		480	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	TACAN RWY 14	1		KFMH	FALMOUTH	MA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED VALUE UNDER NM "DIST FROM FAC"
UPDATED FACILITY
UPDATED FIX/USE

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (JONATHAN MYERS)

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LIGTE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 414226.73N/0703753.09W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	OTIS	FMH	TACAN	L	314.00	299.00	6.00	6.00	36457	1700	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	TACAN RWY 14	1		KFMH	FALMOUTH	MA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED NM AND FEET VALUES UNDER "DIST FROM FAC"
UPDATED FACILITY
UPDATED FIX/USE

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (JONATHAN MYERS)

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

SIGNATURE:

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

RADIO FIX AND HOLDING DATA RECORD

NAME: TAVOE **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 414520.70N/0704454.09W **TYPE:** DME

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	OTIS	FMH	TACAN	L	314.00	299.00	12.00	12.00		3000	17500

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	TACAN RWY 14	1		KFMH	FALMOUTH	MA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED VALUE UNDER NM "DIST FROM FAC"
UPDATED FACILITY
UPDATED FIX/USE
UPDATED MRA

DEVELOPED BY: **DATE:** 07/10/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (JONATHAN MYERS)

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

SIGNATURE:

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

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

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

LATITUDE/LONGITUDE: 420101.88N/0700214.04W **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	MARCONI	LFV	VOR/DME	H							45000

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	S	LFV	VOR/DME	180.00	360.00	L	1-1 1/2		2000	31000	4	23
2	S		WP	180.00	360.00	L		4	2000	6000	4	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	420106.00N/0700312.00W	397	4E
1	310	TOWER (25-000161)	414649.00N/0700035.00W	515	4D
2	200	AAO	420106.00N/0700312.00W	397	4E

REASON FOR NONSTANDARD HOLDING:
PAT 1 PROTECTION OF CONTROL AREA 1142
PAT 2 PROTECTION OF CONTROL AREA 1142

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	ILS OR LOC RWY 15	KHYA	HYANNIS	MA (US)
1	VOR RWY 6	KHYA	HYANNIS	MA (US)

REMARKS:
PRECIPITIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	STEWY RNAV			KACK	NANTUCKET	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
DP	BANGOR			KBGR	BANGOR	ME (US)
DP	PORTLAND			KPWM	PORTLAND	ME (US)
DP	JUMPR			KPVD	PROVIDENCE	RI (US)
EN ROUTE	J150					MA (US)
EN ROUTE	J174					MA (US)
EN ROUTE	J79					MA (US)
EN ROUTE	VI67					MA (US)
IAP	RNAV (GPS) - B			KCQX	CHATHAM	MA (US)
IAP	ILS OR LOC RWY 23			KFMH	FALMOUTH	MA (US)
IAP	TACAN RWY 14			KFMH	FALMOUTH	MA (US)
IAP	TACAN RWY 23			KFMH	FALMOUTH	MA (US)
IAP	ILS OR LOC RWY 15		1	KHYA	HYANNIS	MA (US)
IAP	ILS OR LOC RWY 24			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 15		2	KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 24			KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 33			KHYA	HYANNIS	MA (US)
IAP	VOR RWY 6		1	KHYA	HYANNIS	MA (US)
IAP	RNAV (GPS) RWY 24			KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 33			KACK	NANTUCKET	MA (US)
IAP	RNAV (GPS) RWY 24			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	ILS RWY 7			KPVC	PROVINCETOWN	MA (US)
IAP	NDB RWY 25			KPVC	PROVINCETOWN	MA (US)
STAR	SCUPP			KBOS	BOSTON	MA (US)

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

COMPULSORY REPORTING POINT: NO

QUALITY CHECKED

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 08/25/2011

INFO ONLY

REASON FOR REVISION:
ADMIN UPDATE TO UPDATE FACILITY IN HISTORY STATUS.
UPDATED PAT 1 AND 2 CONTROLLING OBSTRUCTION.
UPDATED FIX USE.

DEVELOPED BY:	**DATE:** 02/28/2011	**OFFICE:** AJV-352	**NAME:** DONALD SMITH (JEFF RAWDON)
APPROVED BY:	**DATE:** 06/23/2011	**OFFICE:** AJV-352	**NAME:** DARRYEL ADAMS
	SIGNATURE:		

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

QUALITY CHECKED

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: PROVIDENCE VORTAC **STATE:** RI **COUNTRY:** US

LATITUDE/LONGITUDE: 414327.64N/0712546.67W **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	PROVIDENCE	PVD	VORTAC	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	S	PVD	VORTAC	181.00	001.00	R	1		1900	5000	4	5
2	N	PVD	VORTAC	344.00	164.00	R	1		3000	5000	4	5
3	NE	PVD	VORTAC	057.00	237.00	R	1 1/2		18000	39000	16	27
4	N	PVD	VORTAC	008.00	188.00	R	1		2100	6000	4	6
5	SW	PVD	VORTAC	234.00	054.00	R	1-1 1/2		2000	45000	4	29
6	N		WP	344.96	164.96	R		4	3000	5000	5	6
7	NE		WP	057.00	237.00	R	1 1/2		17000	24000	17	20
8	SW	PVD	VORTAC	234.00	054.00	R		7	11000	14000	9	10
9	SW		WP	235.41	055.41	R		10	11000	18000	15	17

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	414039.00N/0712942.00W	542	4E
2	200	TOWER (44-000125)	414812.00N/0713325.00W	1049	5D
4	200	TOWER (44-000125)	414812.00N/0713325.00W	1049	5D
5	200	AAO	413724.00N/0713348.00W	732	4E
6	200	TOWER (44-000125)	414812.00N/0713325.00W	1049	5D
7	265	TOWER (25-000325)	415213.00N/0711743.00W	1149	4D
8	230	TOWER (44-000113)	413423.00N/0713756.00W	851	2C
9	230	TOWER (44-000125)	414812.00N/0713325.00W	1049	5D

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	HANSCOM			KBED	BEDFORD	MA (US)
DP	BEVERLY			KBVY	BEVERLY	MA (US)
DP	LOGAN			KBOS	BOSTON	MA (US)
DP	LAWRENCE			KLWM	LAWRENCE	MA (US)
DP	STEWY (RNAV)			KACK	NANTUCKET	MA (US)
DP	NORWOOD			KOWD	NORWOOD	MA (US)
EN ROUTE	J225					(US)
EN ROUTE	J55		5			(US)
EN ROUTE	J68					(US)
EN ROUTE	T255					(US)
EN ROUTE	V139		5			(US)
EN ROUTE	V146					(US)
EN ROUTE	V151					(US)
EN ROUTE	V167					(US)
EN ROUTE	V405					(US)
EN ROUTE	V475					(US)
IAP	RNAV (GPS) RWY 23			KGON	GROTON/NEW LONDON	CT (US)
IAP	VOR RWY 23			KGON	GROTON/NEW LONDON	CT (US)
IAP	ILS RWY 15R			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 15R			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 27			KBOS	BOSTON	MA (US)
IAP	VOR/DME RWY 33L			KBOS	BOSTON	MA (US)
IAP	ILS OR LOC RWY 32			KFMH	FALMOUTH	MA (US)
IAP	TACAN RWY 14			KFMH	FALMOUTH	MA (US)
IAP	NDB RWY 32			K1B9	MANSFIELD	MA (US)
IAP	ILS OR LOC RWY 5			KEWB	NEW BEDFORD	MA (US)
IAP	LOC BC RWY 23			KEWB	NEW BEDFORD	MA (US)
IAP	NDB RWY 5			KEWB	NEW BEDFORD	MA (US)
IAP	RNAV (GPS) RWY 5			KEWB	NEW BEDFORD	MA (US)
IAP	LOC RWY 35			KOWD	NORWOOD	MA (US)
IAP	ILS OR LOC/DME RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 6			KPYM	PLYMOUTH	MA (US)
IAP	RNAV (GPS) RWY 2			K3B0	SOUTHBRIDGE	MA (US)
IAP	NDB OR GPS RWY 30			KTAN	TAUNTON	MA (US)
IAP	ILS OR LOC RWY 24			KMVY	VINEYARD HAVEN	MA (US)
IAP	VOR RWY 6			KMVY	VINEYARD HAVEN	MA (US)

QUALITY CHECKED

IAP	LOC RWY 22		KUUU	NEWPORT	RI (US)
IAP	RNAV (GPS) RWY 16	6	KUUU	NEWPORT	RI (US)
IAP	VOR/DME RWY 16	2	KUUU	NEWPORT	RI (US)
IAP	ILS OR LOC RWY 16		KOQU	NORTH KINGSTOWN	RI (US)
IAP	VOR RWY 34		KOQU	NORTH KINGSTOWN	RI (US)
IAP	VOR-A	4	KOQU	NORTH KINGSTOWN	RI (US)
IAP	LOC RWY 05		KSFZ	PAWTUCKET	RI (US)
IAP	VOR OR GPS-A	1	KSFZ	PAWTUCKET	RI (US)
IAP	VOR OR GPS-B		KSFZ	PAWTUCKET	RI (US)
IAP	ILS OR LOC RWY 23		KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC RWY 5		KPVD	PROVIDENCE	RI (US)
IAP	ILS OR LOC/DME RWY 34		KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT II)		KPVD	PROVIDENCE	RI (US)
IAP	ILS RWY 5 (CAT III)		KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 16		KPVD	PROVIDENCE	RI (US)
IAP	RNAV (GPS) RWY 5		KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 34		KPVD	PROVIDENCE	RI (US)
IAP	VOR RWY 5		KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 16		KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 23		KPVD	PROVIDENCE	RI (US)
IAP	VOR/DME RWY 34		KPVD	PROVIDENCE	RI (US)
STAR	GRAYM		KBED	BEDFORD	MA (US)
STAR	KRANN (RNAV)	9	KBOS	BOSTON	MA (US)
STAR	NORWICH	8	KBOS	BOSTON	MA (US)
STAR	OOSHN (RNAV)		KBOS	BOSTON	MA (US)
STAR	SCUPP		KBOS	BOSTON	MA (US)
STAR	WOONS		KBOS	BOSTON	MA (US)
STAR	NEWBE		KACK	NANTUCKET	MA (US)
STAR	PARCH (RNAV)	7	KFRG	FARMINGDALE	NY (US)
STAR	ROBER	3	KFRG	FARMINGDALE	NY (US)
STAR	PARCH (RNAV)	7	KJFK	NEW YORK	NY (US)
STAR	ROBER	3	KJFK	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 24 **DATE OF REVISION:** 09/20/2012

REASON FOR REVISION:
1. AMENDED PAT 3 MIN HOLDING ALTITUDE FROM 24000 TO 18000 TO SUPPORT ROBER STAR.
2. DELETED PAT 3 CONTROLLING OBSTACLE (NOT REQUIRED, MIN HOLDING ALTITUDE 18000).
3. AMENDED PAT 4 MAX HOLDING ALTITUDE FROM 10000 TO 6000.
4. AMENDED PAT 5 MIN HOLDING ALTITUDE FROM 11000 TO 2000 TO SUPPORT HOLDING CHARTED ON V139.
5. AMENDED PAT 5 CONTROLLING OBSTACLE FROM 851 MSL TOWER TO 732 MSL AAO.
6. AMENDED PAT 5 MAX HOLDING ALTITUDE FROM 23000 TO 45000 TO SUPPORT HOLDING CHARTED ON J55.
7. AMENDED PAT 7 FROM 10 NM LEGS TO LEG TIME 1 1/2 TO SUPPORT DEPICTION ON PARCH STAR.
8. AMENDED PAT 8 CRS INBOUND FROM 053 TO 054.
9. AMENDED PAT 8 TIMED HOLDING TO 7 NM LEGS.
10. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 03/27/2012 **OFFICE:** AJV-352 **NAME:** PETER GUIMOND

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

SIGNATURE:

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RECKU **STATE:** MA **COUNTRY:** US

LATITUDE/LONGITUDE: 414119.93N/0703511.87W **TYPE:** DME

CANCELLED

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

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	OTIS	FMH	TACAN	L	314.00	299.00	3.70			860	17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	CAPE COD COAST GUARD AIR STATION (KFMH) - TACAN RWY 14.			KFMH	FALMOUTH	MA (US)

REQUIRED CHARTING: MILITARY IAP, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/07/2009

DEVELOPED BY: **DATE:** **OFFICE:** **NAME:**

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

SIGNATURE:

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

QUALITY CHECKED