U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

VOR 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

MISSED APPROACH

MAP: 4.06 MILES AFTER SBJ VOR/DME

CLIMBING LEFT TURN TO 2100 DIRECT SBJ VOR/DME AND HOLD.

ADDITIONAL FLIGHT DATA:

HOLD SW, RT, 061.01 INBOUND.
FAS OBST: 439 AAO 403629N/0744233W
SBJ VOR/DME TO RW08: 3.38/40.

1. PT **L** SIDE OF COURSE **241.01** OUTBOUND **2100** FT WITHIN **10** MILES OF **SBJ VOR/DME** (IAF)
2.
3. FAC **061.01** FAF **SBJ VOR/DME** DIST FAF TO MAP **4.06** THLD **4.06**
4. MIN. ALT **SBJ VOR/DME 1600**
8. MSA FROM: **SBJ VOR/DME 270-090 2900, 090-270 2200**

MAG VAR: **10W** EPOCH YEAR: **1965**

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-8	700	1	599	700	1	599		NA			NA				
CIRCLING	700	1	595	700	1	595		NA			NA				

NOTES:

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

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 6

CITY AND STATE	ELEVATION: 105 THRE: 101 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP VOR OR GPS RWY 8
SOMERVILLE, NJ	SOMERSET	SBJ	VOR RWY 8, AMDT 12	AMDT 11
				DATE 11/23/2006

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] NY APP CON, AMGR

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: DONALD E. SMITH (RODNEY TEMPLETON)	FIFO AJV-352	DATE: 09/20/2011
APPROVED BY		
NAME: DARRYEL ADAMS	FIFO AJV-352	DATE:

CHANGES:

1. CHANGED REMOTE ALTIMETER SOURCE FROM NEWARK TO MORRISTOWN.
2. TDZE 105 CHANGED TO THRE 101.
3. REMOVED "OR GPS" FROM PROCEDURE NAME.
4. STRAIGHT-IN AND CIRCLING MDA CHANGED FROM 680 TO 700.
5. CHANGED FAF ALTITUDE FROM 1500 TO 1600.
6. CHANGED LINE 8 MSA FROM 090-270 2100, 270-090 2700 TO 090-270 2200 AND 270-090 2900.
7. CHANGED MISSED APPROACH FROM CLIMBING LEFT TURN TO 2000 TO 2100.
8. REMOVED CHART NOTE: STRAIGHT IN MINIMUMS NOT AUTHORIZED AT NIGHT, AND CHART NOTE: CIRCLING MINIMUMS NOT AUTHORIZED AT NIGHT EXCEPT BY PRIOR ARRANGEMENT FOR RUNWAY LIGHTS, AND ADDED CHART NOTE: PROCEDURE NA AT NIGHT.
9. ADDED ALTERNATE MINIMUMS.

REASONS:

1. MORRISTOWN IS CLOSER AND DECREASED RA FROM 80 FEET TO 60 FEET.
2. IAW 8260.19D PARA 858
3. CRITERIA.
4. RE-EVALUATED TERRAIN IN FINAL AND CIRCLING SEGMENTS.
5. RE-EVALUATED TERRAIN IN THE INTERMEDIATE SEGMENT.
6. IAPA RE-EVALUATION OF THE MSA SECTOR.
7. RE-EVALUATED TERRAIN IN THE MISSED SEGMENT.
8. NO SURVEYS.
9. IAW 8260.19D PARA 853B.

PDF EDITS:
8260-9, UNDER FACILITY, ADDED VOR/DME TO SBJ.
8260-9, BLOCK 3, ADJUSTMENT: ADDED 47.

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.
INTERMEDIATE: PT	10 NM	SBJ VOR/DME	1. AAO	403041.00N/0745421.00W	799 (2C)	500		1300
			2. TERRAIN	403041.00N/0745421.00W	599 (600)		AS1000	1600
FINAL	SBJ VOR/DME	4.06 MILES AFTER	3. AAO	403629.00N/0744233.00W	439 (2C)	250		700
		SBJ VOR/DME						
2. PROCEDURE TURN	SBJ VOR/DME	10 NM	4. AAO	403646.00N/0744750.00W	1039 (2C)	1000		2100
			5. TERRAIN	403646.00N/0744750.00W	839 (800)		AS1000	1800
3. MISSED APPROACH MAP:	4.06 MILES AFTER	SBJ VOR/DME				ASC		2100
	SBJ VOR/DME		6. AAO	403646.00N/0744750.00W	1039 (2C)	1000		2100
ELEV:	450		7. TERRAIN	403646.00N/0744750.00W	839 (800)		AS1000	1800

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL		OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
CATEGORY A	1.3 NM	350		595	8. TREE	403654.00N/0744113.00W	339 (2C)	300	SI	700
CATEGORY B	1.5 NM	450		595	9. TREE	403809.00N/0743803.00W	399 (2C)	300		700
CATEGORY C	1.7 NM	450								
CATEGORY D	2.3 NM	550								
CATEGORY E	4.5 NM	550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: SBJ VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
270-090	AAO	342/ 28.9	1805 (4D)	2900					
090-270	AAO	266/ 22.7	1180 (6A)	2200					

QUALITY CHECKED

CITY AND STATE	ELEVATION: 105 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SOMERVILLE, NJ	SOMERSET	SBJ	VOR RWY 8, AMDT 12	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
MIV FSS NEW YORK APP CON ZNY ARTCC		N W S	OTHER: ASOS	SOURCE: KSMQ / KMMU
		F A A		DISTANCE: 0 / 15.61
SATISFACTORY ON:		A / C		HOURS REMOTE OPERATION: BACKUP
X V H F X U H F H F	LOCATION: KSMQ			ADJUSTMENT: 0 / 47

4. MONITOR STATUS	PRIMARY NAVAID: SBJ VOR/DME		
	MONITOR POINT: AOCC		
	HRS OPTN:	CAT 1	24 HR
		CAT 3	

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 12, 30
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	BSC-G 30
	ALL WEATHER	
	INSTRUMENT	NPI-F 12
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	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: DONALD E. SMITH (RODNEY TEMPLETON)	DATE: 09/20/2011
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

UNABLE TO VERIFY VISUAL SURFACES DUE TO LACK OF SURVEY.

RASS PRESSURE PATTERNS SAME
KSMQ 105.0, KMMU 186.5
RA = 47.32.
SEE ATTACHED AIRSPACE LETTER.

AVERAGE VEGETATION ASSUMED TO BE 100FT PER FPT.
PROCEDURE NA AT NIGHT DUE TO LACK OF SURVEYS.
KSMQ AND KMUU ON SERVICE A.

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: SOLBERG VOR/DME **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 403458.96N/0744430.46W **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	SOLBERG	SBJ	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	SE	SBJ	VOR/DME	130.00	310.00	R	1		2300	6000	4	5
2	S	SBJ	VOR/DME	195.85	015.85	R	1		2200	6000	4	5
3	SW	SBJ	VOR/DME	241.01	061.01	R	1		2100	6000	4	5
4	NW	SBJ	VOR/DME	308.12	128.12	L	1		2500	6000	4	5
5	N	SBJ	VOR/DME	351.00	171.00	R	1		2200	6000	4	5
6	S		WP	198.88	018.88	R		4	2500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	403554.00N/0744927.00W	1109	4E
1	310	AAO	404154.73N/0745058.85W	1187	2A
2	200	AAO	403648.00N/0744751.00W	1057	4E
2	310	AAO	404124.96N/0744808.96W	1159	2C
3	200	AAO	403646.00N/0744750.00W	1039	2C
4	200	AAO	404154.73N/0745058.85W	1187	2A
5	200	AAO	404154.73N/0745058.85W	1187	2A
6	200	AAO	403646.84N/0744751.42W	1039	2C
6	310	AAO	404124.96N/0744808.96W	1159	2C

REASON FOR NONSTANDARD HOLDING:
PAT 4 PHL APP CON AIRSPACE BOUNDARY

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	VOR-A	KN51	READINGTON	NJ (US)
2	VOR RWY 04	KN51	READINGTON	NJ (US)
6	RNAV (GPS) RWY 12	KSMQ	SOMERVILLE	NJ (US)

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BRIDGEHAVEN			KBDR	BRIDGEPORT	CT (US)
DP	BRIDGEHAVEN			KHVN	NEW HAVEN	CT (US)
DP	MORRISTOWN			KMMU	MORRISTOWN	NJ (US)
DP	TAKE-OFF MINIMUMS			KMMU	MORRISTOWN	NJ (US)
DP	LIBERTY			KEWR	NEWARK	NJ (US)
DP	NEWARK			KEWR	NEWARK	NJ (US)
DP	PORTT (RNAV)			KEWR	NEWARK	NJ (US)
DP	RUUDY (RNAV)			KTEB	TETERBORO	NJ (US)
DP	TETERBORO			KTEB	TETERBORO	NJ (US)
DP	LONG ISLAND			KISP	NEW YORK	NY (US)
DP	KENNEDY			KJFK	NEW YORK	NY (US)
DP	SEAVIEW			KJFK	NEW YORK	NY (US)
DP	SKORR (RNAV)			KJFK	NEW YORK	NY (US)
DP	LA GUARDIA			KLGA	NEW YORK	NY (US)
DP	STEWART			KSWF	NEWBURGH	NY (US)
DP	DUTCHESS			KPOU	POUGHKEEPSIE	NY (US)
DP	WESTCHESTER			KHPN	WHITE PLAINS	NY (US)
EN ROUTE	J75					(US)
EN ROUTE	V232					(US)
EN ROUTE	V249					(US)
EN ROUTE	V3-V405					(US)
EN ROUTE	V3-V405-V419					(US)
EN ROUTE	V3-V419					(US)
EN ROUTE	V30-V405					(US)
EN ROUTE	V403					(US)
EN ROUTE	V6					(US)
IAP	RNAV (GPS) RWY 04			KCDW	CALDWELL	NJ (US)
IAP	RNAV (GPS) RWY 10			KCDW	CALDWELL	NJ (US)
IAP	RNAV (GPS) RWY 25			K47N	MANVILLE	NJ (US)

QUALITY 6 CHECKED

IAP	VOR-A	4	K47N	MANVILLE	NJ (US)
IAP	RNAV (GPS) RWY 05		KMMU	MORRISTOWN	NJ (US)
IAP	RNAV (RNP) Y RWY 23		KMMU	MORRISTOWN	NJ (US)
IAP	VOR RWY 07		KN40	PITTSTOWN	NJ (US)
IAP	VOR OR GPS RWY 08		KN85	PITTSTOWN	NJ (US)
IAP	RNAV (GPS) RWY 10		K39N	PRINCETON/ROCKY HILL	NJ (US)
IAP	VOR-A	5	K39N	PRINCETON/ROCKY HILL	NJ (US)
IAP	VOR RWY 04	2	KN51	READINGTON	NJ (US)
IAP	VOR-A	1	KN51	READINGTON	NJ (US)
IAP	RNAV (GPS) RWY 12	6	KSMQ	SOMERVILLE	NJ (US)
IAP	VOR RWY 08	3	KSMQ	SOMERVILLE	NJ (US)
IAP	ILS RWY 06		KTEB	TETERBORO	NJ (US)
IAP	ILS RWY 19		KTEB	TETERBORO	NJ (US)
IAP	RNAV (GPS) X RWY 6		KTEB	TETERBORO	NJ (US)
IAP	RNAV (GPS) Y RWY 06		KTEB	TETERBORO	NJ (US)
IAP	RNAV (GPS)-C		KTEB	TETERBORO	NJ (US)
IAP	RNAV (RNP) RWY 19		KTEB	TETERBORO	NJ (US)
IAP	RNAV (RNP) Z RWY 06		KTEB	TETERBORO	NJ (US)
IAP	VOR/DME RWY 06		KTEB	TETERBORO	NJ (US)
IAP	VOR OR GPS RWY 24		KTTN	TRENTON	NJ (US)
IAP	ILS OR LOC RWY 06		KABE	ALLENTOWN	PA (US)
IAP	ILS OR LOC/DME RWY 24		KABE	ALLENTOWN	PA (US)
IAP	RNAV (GPS) RWY 24		KABE	ALLENTOWN	PA (US)
IAP	VOR-A		KABE	ALLENTOWN	PA (US)
IAP	VOR RWY 23		KDYL	DOYLESTOWN	PA (US)
IAP	GPS RWY 36		KN43	EASTON	PA (US)
OTHER	ROUTE 80 VISUAL RWY 23 APPROACH		KMMU	MORRISTOWN	NJ (US)
STAR	DYLIN		KEWR	NEWARK	NJ (US)
STAR	JAIKE (RNAV)		KTEB	TETERBORO	NJ (US)
STAR	LENDY		KJFK	NEW YORK	NY (US)
STAR	GATBY		KLGA	NEW YORK	NY (US)
STAR	KORRY		KLGA	NEW YORK	NY (US)
STAR	MILTON		KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED HOLDING PATTERN 3, CHANGED RAD/CRS/BRG FROM 237.00 TO 237.25 AND CHANGED CRS INBOUND FROM 057.00 TO 057.25.
REMOVED "200'" FROM CONTOLLING OBSTRUCTIONS/OBSTRUCTION DESCRIPTION.
DELETED CONTROLLING OBSTRUCTION PATTERN FROM PATTERN 3.
DELETED PROCEDURES REQUIRING CLIMB-IN-HOLD PATTERN 3.
UPDATED HOLDING INB COURSE FROM 057.25 TO 061.01, TO MATCH PT COURSE INB.

DEVELOPED BY: **DATE:** 09/28/2011 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (RODNEY TEMPLETON)

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZNY
ATC FACILITY: NY TRACON
OTHER:

QUALITY CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **SOMERVILLE** STATE: NJ

AIRPORT NAME: **SOMERSET** ID: **KSMQ**

PROCEDURE: **VOR RWY 8** AMDT: **12**

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 **4.06**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **2.81**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **051.01**
4. High Terrain in **FINAL** segment containing 1000' pc **620**
5. Distance from * to 1500' point **NA**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of _____ segment at 1500' point **5.02**
7. True Course of _____ segment containing 1500' poin **NA**
8. High Terrain in _____ segment containing 1500' point **NA**
9. Threshold Coordinates (if straight-in) ... **403732.37N** / **0744021.58W**
10. ARP Coordinates ..... **403733.57N** / **0744012.88W**
11. Runway Approach End and distance furthest from ARP.....RWY **26**
    Distance **0.25** NM
12. FAF Coordinates ..... **403458.96N** / **0744430.46W**
    (Click to Select)

REMARKS: Approach/Drawing attached. 1500 POINT IS IN THE PT MANEUVERING AREA.