Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 05/01/2008	Task #: 2007071316105102007	Request #: 20070713161051
Procedure: ILS OR LOC RWY 13 AMDT 7		Airport ID: KABE	Airport: LEHIGH VALLEY INTL		Reimbursable #:
City: ALLENTOWN	ST: PA	GPS #:		Estimated Chart Date: 06/27/2013	FICO #:
Fac ID: BXY	Fac. Type: ILS	Specialist: DONALD SMITH(Contractor)			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	10/24/2012	01/30/2013	KEN CHEERS	
QA:	01/30/2013	02/21/2013	CASIMIR TABAKA	
Liaison:	02/21/2013		Spurlin	

p2

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

Pkg 2 of 8

ALLENTOWN, PA LEHIGH VALLEY INTL (KABE) ILS OR LOC RWY 13, AMDT 7 ENROUTE-YES FC: 4.30.13 PUB: 6.27.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): ALLENTOWN (FJC) VTAC, REV 14; CAVRU-INT, REV 2; HASIS-INT, REV 3; IZKIP-INT, ORIG; LIZZI-INT, REV 11; MOOVY-INT, REV 2; RIVOC-INT, ORIG.

CONTACT: DON SMITH/MARLON ROBINSON-AJV-352 LEADS, 405.954.1036 / 405.954.3636.

ALLENTOWN, PENNSYLVANIA

FIG

ILS or LOC RWY 13

ALLENTOWN / LEHIGH VALLEY INTL (ABE)

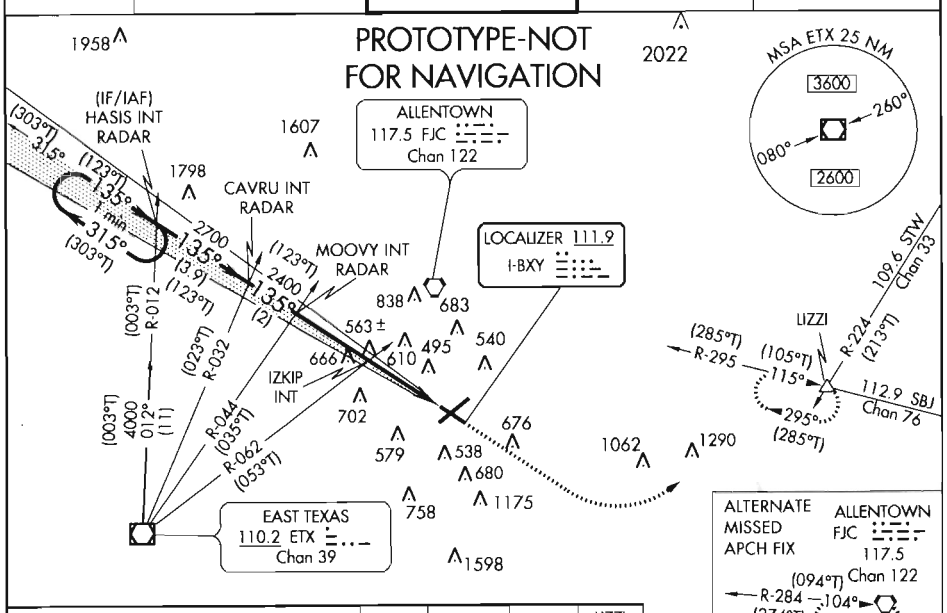
LOC I-BXY	APP CRS	Rwy ldg	5797
111.9	135°	THRE	383
		Apt Elev	394

Helicopter visibility reduction below 1 SM NA. For inop MALSR, increase S-LOC 13 Cat B visibility to 1 ¼ miles. For inop MALSR, increase IZKIP fix minimums S-LOC 13 Cat C/D visibility to 1 ¼ miles. Rwy 13 straight-in and circling minimums NA at night. Inoperative table does not apply to S-ILS 13. Inoperative table does not apply to S-LOC 13 Cat A. Inoperative table does not apply to IZKIP fix minimums S-LOC 13 Cat A/B.

MALSR

MISSED APPROACH: Climb to 1300 then climbing left turn to 3000 on heading 060° and on SBJ VOR/DME R-295 to LIZZI INT and hold.

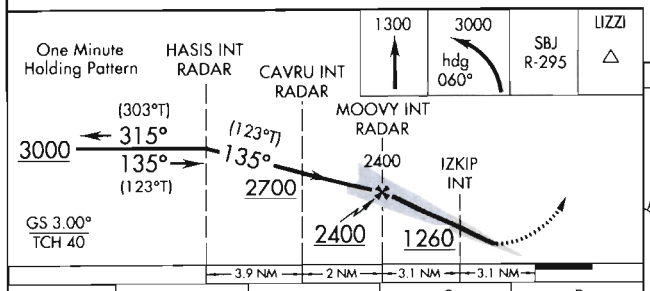
ATIS	ALLENTOWN APP CON	ALLENTOWN TOWER	GND CON	CLNC DEL
126.975	119.65 124.45 397.9	120.5 257.95	121.9 257.95	124.05 257.95



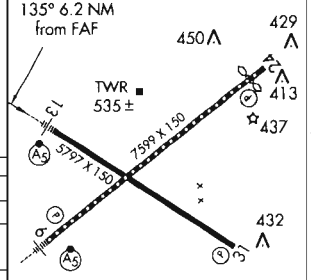
ALTERNATE MISSED APCH FIX

ALLENTOWN FJC 117.5 Chan 122

(094°T) R-284 (274°T) 104° (274°T) 284°



ELEV 394 | D | THRE 383



REIL Rwys 24 and 31
HIRL Rwys 6-24 and 13-31

CATEGORY	A	B	C	D
S-ILS 13	633-1 250 (300-1)			
S-LOC 13	1260-1 877 (900-1)		1260-2 877 (900-2)	
CIRCLING	1260-1¼ 866 (900-1¼)		1260-2½ 866 (900-2½)	1260-2¾ 866 (900-2¾)
IZKIP FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 13	820-1 437 (500-1)			
CIRCLING	900-1 506 (600-1)		900-1½ 506 (600-1½)	980-2 586 (600-2)

FAF to MAP 6.2 NM

Knots	60	90	120	150	180
Min:Sec	6:12	4:08	3:06	2:29	2:04

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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
ETX VOR/DME	HASIS INT/RADAR	011.77 / 11.04	4000
HASIS INT/RADAR (IF/IAF)	CAVRU INT/RADAR	135.00 / 3.90 (I-BXY)	2700
CAVRU INT/RADAR	MOOVY INT/RADAR	135.00 / 1.99 (I-BXY)	2400

MISSED APPROACH

ILS: DA
LOC: 6.21 MILES AFTER MOOVY INT/RADAR

CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 060 AND ON SBJ VOR/DME R-295 TO LIZZI INT AND HOLD, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 DIRECT FJC VORTAC AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 115.05 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD W FJC VORTAC, RT, 104.00 INBOUND.
CHART FAS OBST: 563 TREE 404117N/0753022W
CHART: 666 TOWER 404059N/0753123W
CHART IN PLANVIEW: FJC VORTAC.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW HASIS, RT, 135.00 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 135.00 FAF: MOOVY INT/RADAR DIST FAF TO MAP: 6.21 THLD: 6.21
4. MIN. ALT: HASIS 3000, CAVRU 2700, MOOVY 2400, IZKIP INT 1260*
5. DIST TO THLD FROM OM: - MM: - IM: - 150 HAT: - 100 HAT: - GS ANT: 716
6. MIN GS INCPT: 2400 GS ALT AT: MOOVY 2400 OM: - MM: - IM: -
7. GS ANGLE: 3.00 TCH: 40.4
8. MSA FROM: ETX VOR/DME 080-260 2600, 260-080 3600

MAG VAR: 12W EPOCH YEAR: 2005

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD # | LOC: 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
S-ILS 13	633	1	250	633	1	250	633	1	250	633	1	250			
S-LOC 13	1260	1	877	1260	1	877	1260	2	877	1260	2	877			
CIRCLING	1260	1 1/4	866	1260	1 1/4	866	1260	2 1/2	866	1260	2 3/4	866			
IZKIP FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)															
S-LOC 13	820	1	437	820	1	437	820	1	437	820	1	437			
CIRCLING	900	1	506	900	1	506	900	1 1/2	506	980	2	586			

NOTES:
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.
*LOC ONLY
CHART NOTE: RWY 13 STRAIGHT-IN AND CIRCLING MINIMUMS NA AT NIGHT
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE S-LOC 13 CAT B VISIBILITY TO 1 1/4 MILE.
(SEE FORM 8260-10)

CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4
@ CAT A, B 900-2, CAT C 900-2 1/2, CAT D 900-2 3/4

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED 07/03/2008

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]	[X]	[X] **ABE APP CON, AMGR, ZNY**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **DONALD E. SMITH (BRIAN BERUBEE)**	FIFO **AJV-352**	DATE: **12/17/2012**

APPROVED BY		
NAME: **SUSAN CRUMB** **MANAGER**	FIFO **AJV-352**	DATE:

CHANGES:

1. CHANGED FINAL COURSE FROM 134.99 TO 135.00
2. CHANGED DIST FAF TO MAP FROM 6.10 TO 6.21
3. CHANGED TCH FROM 40.3 TO 40.4
4. RAISED S-ILS MINIMUMS FROM 587-1/2-200 TO 633-1-250
5. RAISED S-LOC MINIMUMS FROM 1080-1/2-693 TO 1260-1-877
6. RAISED CMDA FROM 1080 TO 1260
7. REMOVED AND REPLACED RIVOC WITH IZKIP @ 3.10 NM
8. RAISED IZKIP FIX MINIMUMS FROM 720-1/2-333 TO 820-1-437
9. RAISED IZKIP FIX CMDA FROM 840/860/880 TO 900
10. RE-ROUTED MISSED APPROACH FROM ...TO 1200 THEN CLIMBING RIGHT TURN TO 3000 DIRECT ETX VOR/DME... TO CLIMB TO 1300 THEN CLIMBING LEFT TURN TO 3000 TO LIZZI INT...
11. ADDED ALTERNATE MISSED APPROACH INSTRUCTIONS
12. CHANGED H-I-L INBOUND COURSE FROM 134.99 TO 135.00
13. CHANGED INTERMEDIATE SEGMENT COURSE/DIST FROM 134.99-4.00 AND 2.00 TO 135.00-3.90 AND 1.99
SEE 8260-10

REASONS:

1. AVNIS/OPTIMIZATION
2. PFAF
3. AVNIS
4/5/6/8/9. OBSTACLE STUDY
7. MAXIMUM FIX MOVEMENT CRITERIA/OBSTACLE
10. OBSTACLES/ATC CONCURRENCE
11. 8260.19E, 8-56
12. INTERMEDIATE COURSE CHANGE
13. FINAL COURSE CHANGE/PFAF LOCATION
14. RECALCULATION
15. 8260.3, TBL 3-5A
16. UNLIT OBSTACLES PENETRATE 20:1 VISUAL SURFACE
17. HARMONIZED WITH MSA SECTORS ON OTHER PROCEDURES AT THIS LOCATION

SEE 8260-10

QUALITY 2 CHECKED

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NOTES, (CONT.):
CHART NOTE: FOR INOPERATIVE MALSR, INCREASE IZKIP FIX MINIMUMS S-LOC 13 CAT C/D VISIBILITY TO 1 1/4 MILE.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-ILS 13
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO S-LOC 13 CAT A
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO IZKIP FIX MINIMUMS S-LOC 13 CAT A/ B

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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:

CHANGES CONT.
14. CHANGED ETX FEEDER SEGMENT COURSE FROM 011.75 TO 011.77
15. CHANGED INOP EQUIPMENT NOTE TO INCREASE S-LOC 13 CAT B VISIBILITY TO 1 1/4 AND TO INCLUDE IZKIP FIX MINIMUMS INCREASING CAT C/D VISIBILITY TO 1 1/4 MILE. ADDED INOP NOTES FOR ILS, S-LOC 13 CAT A, AND IZKIP S-LOC 13 CAT A/B
16. ADDED PROCEDURE RESTRICTION NOTE
17. CHANGED MSA SECTORS FROM 250-070/070-250 TO 260-080/080-260

REASONS:

REASONS CONT.
PDF EDITS:
1. 8260-3, ADDITIONAL FLIGHT DATA, CHANGED CHIMINEYSMOKESTACK TO TREE
2. 8260-3, ALTERNATE LINE, ADDED # AND @ AS APPROPRIATE
3. 8260-3, NOTES, CHANGED HELICOPTER VISIBILITY REDUCTION NOTE TO: "VISIBILITY REDUCTION BY HELICOPTERS BELOW 1 SM NOT AUTHORIZED"
4. 8260-9, FINAL: LOC STEPDOWN OBSTRUCTION, ADDED TREE

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.29

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ARINC PACKET - 424-18 - ILS

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ETX   K6011020VDLW N40345173W075410252    N40345173W075410252W0090007421     NAREAST TEXAS
        SUSAD        SBJ   K6011290VDLA N40345896W074443046    N40345896W074443046W0100001891     NARSOLBERG

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CAVRU K60    R     N40434648W075360188                    W0122     NAR          CAVRU
        SUSAEAENRT   HASIS K60    R     N40455359W075402044                    W0121     NAR          HASIS
        SUSAEAENRT   LIZZI K60    C   L N40395638W075085566                    W0124     NAR          LIZZI
        SUSAEAENRT   MOOVY K60    C     N40424147W075334985                    W0122     NAR          MOOVY

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6AABE     0     075YHN40390850W075262550W012000394         1800018000C    MNAR    LEHIGH VALLEY INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6FI13   AETX   010ETX  K6D 0V       IF                                                18000                0 NS
        SUSAP KABEK6FI13   AETX   020HASISK6EA0EY      TF                                          + 04000                      0 NS
        SUSAP KABEK6FI13   AETX   030HASISK6EA0EE AR   HF IBXYK6      315001311350T010PI  + 03000                      0 NS
        SUSAP KABEK6FI13   I      010HASISK6EA0E  I    IF IBXYK6      31500131        PI  J 030000240018000             0 NS
        SUSAP KABEK6FI13   I      011CAVRUK6EA0E S     CF IBXYK6      3150009213500039PI  + 02700                      0 NS
        SUSAP KABEK6FI13   I      020MOOVYK6EA0E  F    CF IBXYK6      3150007213500020PI  H 0240002400        -300ETX   K6D 0 NS
        SUSAP KABEK6FI13   I      030RW13 K6PG0GY M    CF IBXYK6      3150001013500062PI    00423             -300         0 NS
        SUSAP KABEK6FI13   I      040          0  M     CA                      1350      + 01300                      0 NS
        SUSAP KABEK6FI13   I      050          0        VI                      0600                                   0 NS
        SUSAP KABEK6FI13   I      060LIZZIK6EA0EY      CF SBJ K6      2951019211510080D   + 03000                      0 NS
        SUSAP KABEK6FI13   I      070LIZZIK6EA0EE  R   HM                      1151T010    + 03000                      0 NS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6GRW13    0057971350 N40391870W075265912-0100    +0082400383000040150IIBXY1

                1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6IIBXY1   011190RW13 N40384590W0752552801350N40391691W0752649570298 07160600300W01204000386
```

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6SETX  K6D                 0   0802600362526008002625                                                                M
```

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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:

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.

ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ETX	ETX	010		IF		FB					
	ETX	HASIS	020		TF		FO				AA 04000	
	ETX	HASIS	030	IAF	HF	R	FO		135.0()	T01.0	AA 03000	
		HASIS	010	FACF	IF		FB				AA 03000 GI 02400	
		CAVRU	011	SDF	CF		FB		135.0()	003.9	AA 02700	
		MOOVY	020	FAF	CF		FB		135.0()	002.0	GI 02400 GS 02400	
		RW13	030	MAP	CF		FO		135.0()	006.2	AT 00423	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		135.0()		AA 01300	
		050		VI		FB		060.0()			
	LIZZI	060		CF		FO		115.1()	008.0	AA 03000	
	LIZZI	070		HM	R	FO		115.1()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ETX	N403451.73	W0754102.52	N4034.862	W07541.042
	SBJ	N403458.96	W0744430.46	N4034.983	W07444.508
	CAVRU	N404346.48	W0753601.88	N4043.775	W07536.031
	HASIS	N404553.59	W0754020.44	N4045.893	W07540.341
	LIZZI	N403956.38	W0750855.66	N4039.940	W07508.928
	MOOVY	N404241.47	W0753349.85	N4042.691	W07533.831
	RW13	N403918.70	W0752659.12	N4039.312	W07526.985
	IBXY (LOC)	N403845.90	W0752552.80	N4038.765	W07525.880

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00383	40

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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
LOC STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - FAR PART 97.25

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ARINC PACKET - 424-18 - LOC

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                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        ETX   K6011020VDLW N40345173W075410252    N40345173W075410252W0090007421     NAREAST TEXAS
        SUSAD        SBJ   K6011290VDLA N40345896W074443046    N40345896W074443046W0100001891     NARSOLBERG

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   CAVRU K60    R     N40434648W075360188                    W0122     NAR          CAVRU
        SUSAEAENRT   HASIS K60    R     N40455359W075402044                    W0121     NAR          HASIS
        SUSAEAENRT   IZKIP K60    C     N40410002W075302417                    W0122     NAR          IZKIP
        SUSAEAENRT   LIZZI K60    C   L N40395638W075085566                    W0124     NAR          LIZZI
        SUSAEAENRT   MOOVY K60    C     N40424147W075334985                    W0122     NAR          MOOVY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6AABE     0     075YHN40390850W075262550W012000394         1800018000C    MNAR    LEHIGH VALLEY INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6FL13   AETX   010ETX  K6D 0V      IF                                                18000                 0 NS
        SUSAP KABEK6FL13   AETX   020HASISK6EA0EY     TF                                     + 04000                          0 NS
        SUSAP KABEK6FL13   AETX   030HASISK6EA0EE AR  HF IBXYK6      315001311350T010PI  + 03000                          0 NS
        SUSAP KABEK6FL13   L      010HASISK6EA0E  I   IF IBXYK6      31500131        PI  + 03000     18000                 0 NS
        SUSAP KABEK6FL13   L      011CAVRUK6EA0E S    CF IBXYK6      3150009213500039PI  + 02700                          0 NS
        SUSAP KABEK6FL13   L      020MOOVYK6EA0E  F   CF IBXYK6      3150007213500020PI  + 02400                ETX   K6D 0 NS
        SUSAP KABEK6FL13   L      021IZKIPK6EA0E S    CF IBXYK6      3150004113500031PI  + 01260            -300          0 NS
        SUSAP KABEK6FL13   L      030RW13 K6PG0GY M   CF IBXYK6      3150001013500031PI    00423            -300          0 NS
        SUSAP KABEK6FL13   L      040         0  M    CA                     1350        + 01300                          0 NS
        SUSAP KABEK6FL13   L      050         0       VI                     0600                                         0 NS
        SUSAP KABEK6FL13   L      060LIZZIK6EA0EY     CF SBJ K6      2951019211510080D   + 03000                          0 NS
        SUSAP KABEK6FL13   L      070LIZZIK6EA0EE  R  HM                     1151T010    + 03000                          0 NS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6GRW13    0057971350 N40391870W075265912-0100    +0082400383000040150IIBXY1

                 1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
```

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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:

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.

```
SUSAP KABEK6IIBXY1   011190RW13 N40384590W0752552801350N40391691W0752649570298 07160600300W01204000386

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KABEK6SETX  K6D                0   0802600362526008002625                                                                M
```

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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

LOC STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.25**

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.

ARINC SUMMARY - 424-18 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	ETX	ETX	010		IF		FB					
	ETX	HASIS	020		TF		FO				AA 04000	
	ETX	HASIS	030	IAF	HF	R	FO		135.0()	T01.0	AA 03000	
		HASIS	010	FACF	IF		FB				AA 03000	
		CAVRU	011	SDF	CF		FB		135.0()	003.9	AA 02700	
		MOOVY	020	FAF	CF		FB		135.0()	002.0	AA 02400	
		IZKIP	021	SDF	CF		FB		135.0()	003.1	AA 01260	
		RW13	030	MAP	CF		FO		135.0()	003.1	AT 00423	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		135.0()		AA 01300	
		050		VI		FB		060.0()			
	LIZZI	060		CF		FO		115.1()	008.0	AA 03000	
	LIZZI	070		HM	R	FO		115.1()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ETX	N403451.73	W0754102.52	N4034.862	W07541.042
	SBJ	N403458.96	W0744430.46	N4034.983	W07444.508
	CAVRU	N404346.48	W0753601.88	N4043.775	W07536.031
	HASIS	N404553.59	W0754020.44	N4045.893	W07540.341
	IZKIP	N404100.02	W0753024.17	N4041.000	W07530.403
	LIZZI	N403956.38	W0750855.66	N4039.940	W07508.928
	MOOVY	N404241.47	W0753349.85	N4042.691	W07533.831
	RW13	N403918.70	W0752659.12	N4039.312	W07526.985
	IBXY (LOC)	N403845.90	W0752552.80	N4038.765	W07525.880

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW13	00383	40

CITY AND STATE	ELEVATION: 394 THRE: 383	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
ALLENTOWN, PA	AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AMDT: 6A
				DATED: 07/03/2008

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.
FEEDER	ETX VOR/DME	HASIS INT/RADAR	1. AAO	404545.00N/0754212.00W	1733 (4E)	2000	AT267	4000
			2. TERRAIN	404545.00N/0754212.00W	1533 (1500)		AS1500	3000
INTERMEDIATE	HASIS INT/RADAR	CAVRU INT/RADAR	3. AAO	404638.53N/0754026.48W	1880 (6C)	500	AT320	2700
	(IF/IAF)		4. TERRAIN	404639.00N/0753939.00W	1572 (1600)		AS1000	2600
INTERMEDIATE:	CAVRU INT/RADAR	MOOVY INT/RADAR	5. AAO	404312.00N/0753554.00W	1185 (4E)	500	AC98 AT617	2400
STEPDOWN			6. TERRAIN	404312.00N/0753554.00W	985 (1000)		AS1000	2000
FINAL: ILS	MOOVY INT/RADAR	RW13	7. POLE (42-022245)	403923.08N/0752658.53W	389 (1A)	34:1		633/250
FINAL: LOC	MOOVY INT/RADAR	IZKIP INT	8. AAO	404147.31N/0753425.55W	889 (2C)	250	DG110 XL11	1260
FINAL: LOC STEPDOWN	IZKIP INT	6.21 MILES AFTER	9.	404116.68N/0753021.67W	563 (1A)	250		820
		MOOVY INT/RADAR	(KABET0765)					
2. HOLD-IN-LIEU-OF-PT	HASIS	P-4	3. AAO	404638.53N/0754026.48W	1880 (6C)	1000	AT120	3000
			10. TERRAIN	404638.53N/0754026.48W	1680 (1700)		AS1000	2700
3. MISSED APPROACH — MAP:	DA / 6.21 MILES	LIZZI INT				ASC		3000
	AFTER MOOVY		11. TOWER (42-002348)	403733.00N/0751517.00W	1290 (1A)	1000		2300
ELEV:	446/570		12. TERRAIN	403733.00N/0751521.00W	998 (1000)		AS1500	2500

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	866 / 506	15. T-L TWR (42-000419)	404041.99N/0752456.60W	540 (5D)	300	SI / AC50	1260 / 900
CATEGORY B	1.5 NM	450	866 / 506	15. T-L TWR (42-000419)	404041.99N/0752456.60W	540 (5D)	300	SI / AC50	1260 / 900
CATEGORY C	1.7 NM	450	866 / 506	15. T-L TWR (42-000419)	404041.99N/0752456.60W	540 (5D)	300	SI / AC50	1260 / 900
CATEGORY D	2.3 NM	550	866 / 586	16. TANK (42-022261)	403646.21N/0752553.23W	680 (1B)	300	SI	1260 / 980
CATEGORY E	4.5 NM	550							

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

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA
080-260	TWR (42-000443)	104/ 11.2	1598 (3C)	2600					
260-080	TWR (42-002421)	017/ 27.9	2505 (4D)	3600					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
ALLENTOWN, PA	ELEVATION: 394 AIRPORT NAME: LEHIGH VALLEY INTL	I-BXY	ILS OR LOC RWY 13, AMDT 7	AEA

QUALITY CHECKED 2

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ABE APP CON ZNY ARTCC ABE TOWER	N W S	OTHER: ASOS	SOURCE: KABE
	F A A		DISTANCE:
	A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:			
X V H F X U H F H F	LOCATION: KABE		ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	I-BXY
	MONITOR POINT:	ABE ATCT
	HRS OPTN: CAT 1	24
	HRS OPTN: CAT 3	

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
	X	MALSR 13, 06
	X	HIRL 31, 13, 24, 06
		MIRL
	X	REIL 31, 24
		TDZ
	X	C/L 24, 06
	X	OTHER (SPECIFY) PAPI-4L 31, 24, 06

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 13, 24, 06
	INSTRUMENT	NPI-G 31
7. RUNWAY VISUAL RANGE	APPROACH	24, 06
	MIDFIELD	
	ROLL OUT	24, 06

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 382.9
	DISTANCE FROM RWY: 716	ELEV GP ANTENNA: 385.8
		THRESHOLD CROSSING HEIGHT: 40.4

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 (BRIAN BERUBEE)	DATE: 12/17/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - 20:1 VISUAL SURFACE PENETRATED.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 666 TOWER
404059N/0753123W

SEE ATTACHED AIRSPACE LETTER.

100' VEGETATION APPLIED PER FPT

KABE ASOS ON SVC A
REDUNDANT WEATHER REPORTING SOURCES ON APT

VGSI DATA: NONE

ORDER 8260.3, VOL 1, "VISUAL SURFACE PORTION OF FINAL"
PENETRATION:
20:1
389 POLE (42-022245) 403923.08N/0752658.53W (5.94)

FPT NOTIFIED OF PENETRATION

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
13. AAO 404745.00N/0752333.00W 1149 (4E) 1000 2200
14. TERRAIN 404745.00N/0752333.00W 949 (900) AS1500
2400

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ALLENTOWN VORTAC **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404336.12N/0752717.12W **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	ALLENTOWN	FJC	VORTAC	L							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	N	FJC	VORTAC	008.00	188.00	R	1		3000	11000	4	9
2	W	FJC	VORTAC	284.00	104.00	R	1		3000	11000	4	9
3	W		WP	284.00	104.00	R		5	3000	11000	5	10

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	404912.00N/0752630.00W	1788	4E
2	200	AAO	404312.00N/0753554.00W	1185	4E
2	310	AAO	404638.53N/0754026.48W	1880	6C
3	200	AAO	404721.00N/0753557.00W	1229	2C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.
PAT 1 AND 2 USED BY ZNY.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
2	ILS OR LOC RWY 6 (ALT MISSED)	KABE	ALLENTOWN	PA (US)
2	ILS OR LOC RWY 13 (ALT MISSED)	KABE	ALLENTOWN	PA (US)

REMARKS:
CHART ENROUTE HIGH: FJC R-104 UNUSABLE USE JFK R-287.
CHART ENROUTE LOW: FJC R-115 UNUSABLE USE SBJ R-295.
CHART ENROUTE LOW: FJC R-157 UNUSABLE.
CHART ENROUTE LOW: FJC R-240 UNUSABLE BLO 9000 USE ETX R-059.
PRECIPITOUS TERRAIN EVALUATION COMPLETE.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	TAKEOFF MINIMUMS			K1N7	BLAIRSTOWN	NJ (US)
DP	PHILADELPHIA			KPHL	PHILADELPHIA	PA (US)
DP	SCRANTON			KAVP	WILKES-BARRE/SCRANTON	PA (US)
EN ROUTE	J146					(US)
EN ROUTE	V149					(US)
EN ROUTE	V162					(US)
EN ROUTE	V408					(US)
EN ROUTE	V6					(US)
EN ROUTE	V613					(US)
IAP	ILS OR LOC RWY 13 (ALT MISSED)		2	KABE	ALLENTOWN	PA (US)
IAP	ILS OR LOC RWY 6 (ALT MISSED)		2	KABE	ALLENTOWN	PA (US)
IAP	VOR-A			KABE	ALLENTOWN	PA (US)
IAP	GPS RWY 36		3	KN43	EASTON	PA (US)
IAP	VOR/DME OR GPS-D		2	KN43	EASTON	PA (US)
IAP	VOR RWY 10			KHZL	HAZLETON	PA (US)
STAR	WILKES BARRE			KCDW	CALDWELL	NJ (US)
STAR	WILKES BARRE			KLDJ	LINDEN	NJ (US)
STAR	WILKES BARRE			KMMU	MORRISTOWN	NJ (US)
STAR	WILKES BARRE			K39N	PRINCETON/ROCKY HILL	NJ (US)
STAR	WILKES BARRE			KN51	READINGTON	NJ (US)
STAR	WILKES BARRE			KSMQ	SOMERVILLE	NJ (US)
STAR	WILKES BARRE			KTEB	TETERBORO	NJ (US)
STAR	LENDY			KFRG	FARMINGDALE	NY (US)
STAR	LENDY			KJFK	NEW YORK	NY (US)
STAR	MILTON			KLGA	NEW YORK	NY (US)
STAR	SLATT			KPHL	PHILADELPHIA	PA (US)

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

COMPULSORY REPORTING POINT: NO

QUALITY 2 CHECKED

RECORD REVISION NUMBER: 14 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
UPDATED FACILITY 1 DATA
ADDED PAT 2 C-I-H WITH ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY:	**DATE:** 11/23/2012	**OFFICE:** AJV-352	**NAME:** DONALD SMITH (BRIAN BERUBEE)
APPROVED BY:	**DATE:**	**OFFICE:** AJV-352	**NAME:** SUE CRUMB
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: ABE APP CON, ABE ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: CAVRU **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404346.48N/0753601.88W **TYPE:** RADAR, INT

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	ALLENTOWN	I-BXY	LOC		315.00	303.00		9.20		2700	4800
2	EAST TEXAS	ETX	VOR/DME	L	032.15	023.15		9.69		2700	4800

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

REMARKS:
ALLENTOWN (FAC 1) AND EAST TEXAS (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13	1, 2		KABE	ALLENTOWN	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
REPOSITIONED FIX 608 FT NW
DELETED WP FROM FIX TYPE
DELETED FAC 3 (RUNWAY) AND ASSOCIATED DATA
CHANGED FAC 1 BRG FROM 302.99 TO 303.00
CHANGED FAC 2 BRG FROM 023.71 TO 023.15
CHANGED FAC 1 & 2 MAA FROM 8000 TO 4800
ADDED DIST FROM FAC 1 & 2
UPDATED FIX USE

DEVELOPED BY: **DATE:** 11/27/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: ABE APP CON, ABE ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HASIS **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404553.59N/0754020.44W **TYPE:** RADAR, INT

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	ALLENTOWN	I-BXY	LOC		315.00	303.00		13.10		3000	4800
2	EAST TEXAS	ETX	VOR/DME	L	011.77	002.77		11.04		3000	4800

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	NW	I-BXY	LOC	315.00	135.00	R	1		3000	4000	4	4

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	404638.53N/0754026.48W	1880	6C

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
ALLENTOWN (FAC 1) AND EAST TEXAS (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13	1, 2	1	KABE	ALLENTOWN	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
REPOSITIONED FIX 13 FT NE
DELETED WP FROM FIX TYPE
DELETED FAC 3 (RUNWAY) AND ASSOCIATED DATA
CHANGED FAC 1 BRG FROM 302.99 TO 303.00
CHANGED FAC 2 BRG FROM 002.75 TO 002.77
ADDED DIST FROM FAC 1 & 2
DELETED WP HOLDING AND ASSOCIATED DATA
CHANGED HOLDING PATTERN INBOUND COURSE FROM 134.99 TO 135.00
CHANGED HOLDING OBSTACLE FROM 1804 TOWER TO 1880 AAO
UPDATED FIX USE

DEVELOPED BY: **DATE:** 11/27/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZNY
ATC FACILITY: ABE APP CON, ABE ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: IZKIP **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404100.02N/0753024.17W **TYPE:** WP, INT

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

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	ALLENTOWN	I-BXY	LOC		315.00	303.00		4.10		1160	4800
2	EAST TEXAS	ETX	VOR/DME	L	061.81	052.81		10.16		1160	4800

REMARKS:
ALLENTOWN (FAC 1) AND EAST TEXAS (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13	1, 2		KABE	ALLENTOWN	PA (US)
IAP	RNAV (GPS) RWY 13			KABE	ALLENTOWN	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: ABE APP CON, ABE ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LIZZI **STATE:** NJ **COUNTRY:** US

LATITUDE/LONGITUDE: 403956.38N/0750855.66W **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	SOLBERG	SBJ	VOR/DME	L	295.05	285.05	19.24	19.24		3000	17500
2	STILLWATER	STW	VOR/DME	L	223.86	212.86		23.54		3000	17500
3	ROBBINSVILLE	RBV	VORTAC	H	323.05	313.05	40.85	40.85		8000	13000

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
RBV	VORTAC	R-323	41	8000	13000

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	NW	SBJ	VOR/DME	295.05	115.05	R	1-1 1/2		5000	17500	6	17
2	NW		WP	295.05	115.05	R		4	3000	8000	5	9
3	NW	SBJ	VOR/DME	295.05	115.05	R	1		3000	6000	4	6
4	NW		WP	298.05	118.05	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	210	TOWER (34-001033)	404345.19N/0750705.21W	1295	1A
2	200	TOWER (42-002348)	403733.00N/0751517.00W	1290	1A
3	200	TOWER (42-002348)	403733.00N/0751517.00W	1290	1A
4	200	TOWER (42-002348)	403733.00N/0751517.00W	1290	1A

HOLDING RESTRICTIONS:
PAT 1 CHART 210K ICON
HOLDING LIMITED TO ESTABLISHED PATTERNS.
FAC 3 NOT AUTHORIZED FOR HOLDING FIX MAKE-UP.

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V6	1, 2	1			(US)
IAP	RNAV (GPS) RWY 25		4	KN40	PITTSTOWN	NJ (US)
IAP	RNAV (GPS) RWY 7		4	KN40	PITTSTOWN	NJ (US)
IAP	ILS OR LOC RWY 13	1, 2	3	KABE	ALLENTOWN	PA (US)
IAP	RNAV (GPS) RWY 13		2	KABE	ALLENTOWN	PA (US)
IAP	VOR-A	1, 2	3	KABE	ALLENTOWN	PA (US)
IAP	RNAV (GPS) RWY 11		2	KUKT	QUAKERTOWN	PA (US)
STAR	MILTON	1, 2, 3	1	KLGA	NEW YORK	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
REPLACED FAC 2 (ARD) WITH STW AND ASSOCIATED DATA
LOWERED FAC 2 MRA FROM 5000 TO 3000
LOWERED PATTERN 3 MINIMUM ALTITUDE FROM 5000 TO 3000
CHANGED PATTERN 3 MINIMUM TEMPLATE SIZE FROM 6 TO 4
CHANGED PATTERN 3 OBSTACLE FROM 1295 TOWER TO 1290 TOWER
UPDATED FIX USE

DEVELOPED BY: **DATE:** 11/28/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

QUALITY 2 CHECKED

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZNY

ATC FACILITY: ABE APP CON, N90
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: MOOVY **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404241.47N/0753349.85W **TYPE:** WP, RADAR, INT

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	ALLENTOWN	I-BXY	LOC		315.00	303.00		7.21	43810	2400	4800
2	EAST TEXAS	ETX	VOR/DME	L	044.01	035.01		9.56		2400	4800

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

REMARKS:
COORDINATES ESTABLISHED USING 8260.54A, FORMULA 2-16B

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 13	1, 2		KABE	ALLENTOWN	PA (US)
IAP	RNAV (GPS) RWY 13			KABE	ALLENTOWN	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/02/2013

REASON FOR REVISION:
REPOSITIONED FIX 662 FT NW
DELETED FAC 3 (RUNWAY) AND ASSOCIATED DATA
CHANGED FAC 1 BRG FROM 302.99 TO 303.00
CHANGED FAC 2 BRG FROM 035.64 TO 035.01
ADDED DIST FROM FAC 1 & 2
LOWERED FAC 1 & 2 MAA FROM 8000 TO 4800
ADDED FIX COORDINATE REMARK
UPDATED FIX USE

DEVELOPED BY: **DATE:** 11/26/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: EST
ARTCC: ZNY
ATC FACILITY: ABE APP CON, ABE ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RIVOC **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 404025.03N/0752913.39W **TYPE:** WP, INT

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

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	ALLENTOWN	I-BXY	LOC		314.99	302.99				1000	8000
2	EAST TEXAS	ETX	VOR/DME	L	067.24	058.24				1000	8000
3	KABE R13					302.99	2.03				17500

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Y RWY 13 ILS OR LOC RWY 13			KABE	ALLENTOWN	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/02/2013

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

APPROVED BY: **DATE:** **OFFICE:** AJV-352 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: NYC
ARTCC: ZNY
ATC FACILITY: ABE
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **ALLENTOWN** STATE: **PA**

AIRPORT NAME: **LEHIGH VALLEY INTL** ID: **KABE**

PROCEDURE: **ILS or LOC RWY 13** AMDT: **AMDT 7**

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 **4.01**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.09**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **123.00**
4. High Terrain in **FINAL** segment containing 1000' point **653**
5. Distance from **THLD** to 1500' point **11.20**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **INTERMEDIATE** segment at 1500' point **8.00**
7. True Course of **INTERMEDIATE** segment containing 1500' point **123.00**
8. High Terrain in **INTERMEDIATE** segment containing 1500' point **1572**
9. Threshold Coordinates (if straight-in) ... **403918.70N** / **0752659.12W**
10. ARP Coordinates ..... **403908.50N** / **0752625.50W**
11. Runway Approach End and distance furthest from ARP.....RWY **24**
    Distance **0.69** NM
12. FAF Coordinates ..... **404241.47N** / **0753349.85W**
    (Click to Select)

REMARKS: Approach/Drawing attached.
HOLDING AT HASIS UTILIZES 1000' AIRSPACE (PAT 4)
HOLDING AT ALLENTOWN VORTAC UTILIZES 1000' AIRSPACE (PAT 12)