US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD INSTRUMENT APPROACH PROCEDURE TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

TERMINAL ROUTES

FROM	TO	COURSE AND DISTANCE	ALTITUDE
FQM VOR/DME (IAF)	YULUS (FB)	041.13 / 16.92	3800
YULUS (IF)	ZEGUK (FB)	046.94 / 3.05	3300
ZEGUK (FAF)	RW05 (MAP) (FO)	046.96 / 7.95	
RW05 (MAP)	1130 MSL	046.96	
1130 MSL	WITAD (FB)		
WITAD	OKZUS (FO)	034.35 / 6.33	3500

MISSED APPROACH

LNAV: RW05

CLIMB TO 3500 DIRECT WITAD AND ON TRACK 034.35 TO OKZUS AND HOLD.

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 211.53 INBOUND.
CHART FAS OBST: 2286 TOWER 414104N/0762901W
REFERENCE PATH ID: W05A

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT YULUS
3. FAC: 046.96 FAF: ZEGUK DIST FAF TO MAP: 7.95 THLD: 7.95
4. MIN. ALT: YULUS 3800, ZEGUK 3300
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW05 3900

MAG VAR: 12W EPOCH YEAR: 2000

MINIMUMS

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

ALTERNATE: N A | X |

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
CIRCLING	2760	1 1/4	2030	2760	1 1/2	2030		NA			NA				

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON FQM VOR/DME AIRWAY RADIALS 316 CW 103.
CHART NOTE: USE TRI-CITIES ALTIMETER SETTING, WHEN NOT RECEIVED, USE ELMIRA/CORNING RGNL ALTIMETER (SEE FORM 8260-10)

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 730 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
TOWANDA, PA	AIRPORT NAME: BRADFORD COUNTY	RNAV	RNAV (GPS)-A, ORIG	AMDT: NONE
				DATED

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] ZNY, BGM APP CON, ARPT MGR.

FLIGHT CHECKED BY

NAME:	FIFO	DATE:
GREGORY JOHN MARINO	FIOG	04/26/2012

DEVELOPED BY

NAME:	FIFO	DATE:
KHALED M. SALEM	AJV-352	01/12/2012

APPROVED BY

NAME:		FIFO	DATE:
DARRYEL ADAMS	MANAGER	AJV-352	05/28/2012

CHANGES:

ORIGINAL.

REASONS:

PER EST FPO.

05/13/2012: THIS IS AN UPDATED COPY OF A FORM DEVELOPED ON 01/12/2012.
REMOVED LP AND LNAV LINES OF MINIMUM.
REMOVED VDA DATA PER FC.
ADDED NOTE: PROCEDURE NA AT NIGHT.

06/04/2012: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 05/28/2012.
1. CHANGED DIST FAF TO MAP AND THLD FROM 7.94 TO 7.95.
2. CHANGE ELMIRE TO ELMIRA IN BACK-UP ALTIMETER NOTE.

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

NOTES, (CONT.):
SETTING AND INCREASE ALL MDA 40 FEET.
CHART NOTE: PROCEDURE NA AT NIGHT.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 730 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
TOWANDA, PA	AIRPORT NAME: BRADFORD COUNTY	RNAV	RNAV (GPS)-A, ORIG	AMDT: NONE
				DATED:

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

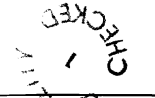
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

Bearings, headings, courses, and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated. Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

ARINC PACKET - 424-18 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        FQM   K6011440VDL  N41201881W076462952    N41201881W076462952W0090020981     NARWILLIAMSPORT

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   OKZUS K60    C   L N41540358W076200139                    W0121     NAR           OKZUS
        SUSAEAENRT   WITAD K60    W     N41481235W076231571                    W0120     NAR           WITAD
        SUSAEAENRT   YULUS K60    W     N41350564W076353080                    W0118     NAR           YULUS
        SUSAEAENRT   ZEGUK K60    W     N41373554W076331121                    W0118     NAR           ZEGUK

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP N27 K6AN27     0     043YHN41442400W076264970W012000730         1800018000C    MNAR    BRADFORD COUNTY

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP N27 K6FRNV-A AFQM   010FQM  K6D 0V  A    IF                                          18000                B JC
        SUSAP N27 K6FRNV-A AFQM   020YULUSK6EA0EE B 010TF                   04110169    + 03800                       B JC
        SUSAP N27 K6FRNV-A R      010YULUSK6EA0E  I    IF                               + 03800    18000              B JC
        SUSAP N27 K6FRNV-A R      020ZEGUKK6EA0E  F 051TF                   04690031    + 03300          RW05  K6PGB B JC
        SUSAP N27 K6FRNV-A R      030RW05 K6PG0GY M 031TF                   04700080      02760        000          B JC
        SUSAP N27 K6FRNV-A R      040         0  M     CA                   0470        + 01130                    B JC
        SUSAP N27 K6FRNV-A R      050WITADK6EA0E        DF                                                        B JC
        SUSAP N27 K6FRNV-A R      060OKZUSK6EA0EY   010TF                   0344        + 03500                    B JC
        SUSAP N27 K6FRNV-A R      070OKZUSK6EA0EE  R   HM                   21150040    + 03500                    B JC

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP N27 K6GRW05     0043000470 N41440665W076270596-0300     +01899000730000037075R

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP N27 K6SRW05 K6PG               0   18018003925                                                              M
```



CITY AND STATE	ELEVATION: 730 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
TOWANDA, PA	AIRPORT NAME: **BRADFORD COUNTY**	**RNAV**	**RNAV (GPS)-A, ORIG**	AMDT: **NONE**
				DATED:

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

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 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	FQM	FQM	010	IAF	IF		FB					
	FQM	YULUS	020		TF		FB	1.0	041.1(029.1T)	016.9	AA 03800	
		YULUS	010	FACF	IF		FB				AA 03800	
		ZEGUK	020	FAF	TF		FB	0.5	046.9(034.9T)	003.1	AA 03300	
		RW05	030	MAP	TF		FO	0.3	047.0(035.0T)	008.0	AT 02760	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		047.0(035.0T)		AA 01130	
	WITAD	050		DF		FB					
	OKZUS	060		TF		FO	1.0	034.4(022.4T)		AA 03500	
	OKZUS	070		HM	R	FO		211.5(199.5T)	004.0	AA 03500	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	FQM	N412018.81	W0764629.52	N4120.314	W07646.492
	OKZUS	N415403.58	W0762001.39	N4154.060	W07620.023
	WITAD	N414812.35	W0762315.71	N4148.206	W07623.262
	YULUS	N413505.64	W0763530.80	N4135.094	W07635.513
	ZEGUK	N413735.54	W0763311.21	N4137.592	W07633.187
	RW05	N414406.65	W0762705.96	N4144.111	W07627.099

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00730	37

CITY AND STATE	ELEVATION: 730 TDZE:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
TOWANDA, PA	AIRPORT NAME: **BRADFORD COUNTY**	**RNAV**	**RNAV (GPS)-A, ORIG**	AMDT: **NONE**
				DATED:

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

COORDINATED WITH:

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

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

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	FQM VOR/DME	YULUS	1. AAO	413532.79N/0763602.10W	2500 (2C)	1000		3500
			2. TERRAIN	413533.00N/0763630.00W	2279 (2300)		AS1500	3800
INTERMEDIATE	YULUS	ZEGUK	1. AAO	413532.79N/0763602.10W	2500 (2C)	500		3000
			3. TERRAIN	413532.79N/0763602.10W	2319 (2300)		AS1000	3300
FINAL: LNAV	ZEGUK	RW05	4. TOWER (42-020050)	414104.44N/0762901.12W	2286 (4D)	250	RA74 XL98 AC50	2760
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	RW05	OKZUS				ASC		3500
			5. AAO	415418.34N/0762232.00W	1859 (2C)	1000		2900
ELEV:	2449		6. TERRAIN	415418.34N/0762232.00W	1659 (1700)		AS1500	3200

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	2030		7. TREE (KN27T2501)	414415.08N/0762511.72W	1552 (1C)	300	SI	2760
CATEGORY B	1.5 NM	450	2030		8. ANTENNA	414543.20N/0762751.21W	1623 (1C)	300	SI	2760
CATEGORY C	1.7 NM	450								
CATEGORY D	2.3 NM	550								
CATEGORY E	4.5 NM	550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: **RW05**

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (42-003063)	203/ 25.4	2856 (4D)	3900					

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
TOWANDA, PA	ELEVATION: 730 AIRPORT NAME: BRADFORD COUNTY	RNAV	RNAV (GPS)-A, ORIG	AEA

QUALITY CHECKED

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZNY ARTCC	N W S / OTHER: AWOS-3	SOURCE: KCZG
	F A A	DISTANCE: 25.67
SATISFACTORY ON:	A / C	HOURS REMOTE OPERATION:
X V H F X U H F H F	LOCATION: KCZG	ADJUSTMENT: 74

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

	ALS
	(S) SALS
	MALS
X	HIRL 05 (PCL), 23 (PCL)
	MIRL
X	REIL 05 (PCL), 23 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-2L 05 (PCL), 23 (PCL)

5. APPROACH & RUNWAY LIGHTING

6. RUNWAY MARKINGS	BASIC
	ALL WEATHER
	INSTRUMENT NPI-G 05, 23
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: KHALED M. SALEM	DATE: 01/12/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

VDP NOT ESTABLISHED - REMOTE ALTIMETER IN USE.

PARA 251, 20:1 PENETRATION.

PARA 251, 34:1 PENETRATION.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

LNAV/VNAV, LPV MINIMUMS NOT DEVELOPED PER EST FPO.
TAA NOT DEVELOPED AT ATC'S REQUEST.
VEGETATION HEIGHT 100' PER PREVIOUS PROCEDURE.
3. ALTIMETER SETTING (KCZG IS NOT ON SERVICE A. KELM IS ON SERVICE A)
SOURCE: KELM DISTANCE: 32.10
HOURS REMOTE OPERATION: 24 ADJUSTMENT: 31.81
RASS PRESSURE PATTERNS SAME
KN27 730.1, KCZG 832.7, KELM 954.3
RA = 105.2
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
REQUEST FLIGHT CHECK VERIFY OBSTACLE #5 TOWER TO A 4D AC.
RWY 5 20:1 PENETRATIONS
OBS ID LAT/LONG MSL
KN27T0508 414113.81N-0762908.53W 2121 418.16
KN27T0523 414108.68N-0762908.10W 2141 417.84
KN27T0500 414115.13N-0762904.30W 2098 409.83
KN27T0494 414118.92N-0762907.86W 2083 402.79
KN27T0507 414116.02N-0762912.58W 2103 400.51
KN27T0503 414119.17N-0762913.61W 2090 398.32
KN27T0519 414111.53N-0762913.28W 2108 385.38
KN27T0512 414119.56N-0762920.07W 2083 378.89
KN27T0517 414114.66N-0762918.88W 2064 342.17
KN27T0518 414116.63N-0762922.99W 2046 323.39
KN27T0515 414121.16N-0762925.56W 2027 317.57
KN27T0521 414118.88N-0762927.46W 2027 303.99
KN27T0520 414121.18N-0762931.82W 2011 288.04
KN27T0484 414123.80N-0762907.82W 1891 231.10
KN27T0492 414123.72N-0762914.86W 1905 229.46
KN27T0482 414121.46N-0762901.74W 1882 225.63
KN27T0502 414123.93N-0762921.68W 1895 205.49
KN27T0511 414124.54N-0762929.20W 1857 153.66
KN27T0516 414124.66N-0762933.79W 1862 149.18
KN27T0530 414123.85N-0762938.67W 1851 124.21
KN27T0472 414129.23N-0762905.23W 1701 69.24
KN27T0478 414129.14N-0762911.26W 1711 65.75
KN27T0470 414124.22N-0762855.32W 1695 64.03
KN27T0469 414127.27N-0762859.97W 1685 56.56
KN27T0236 414302.03N-0762748.84W 1101 19.92
KN27T0485 414128.78N-0762917.56W 1677 16.55
KN27T0267 414256.29N-0762751.83W 1117 5.63
RWY 5 34:1 PENETRATIONS
OBS ID LAT/LONG MSL
KN27T0228 414304.00N-0762748.60W 1069 137.55
KN27T0088 414345.08N-0762721.13W 836 39.81
KN27T0491 414128.80N-0762923.54W 1653 368.03
KN27T0075 414349.44N-0762717.45W 788 7.14
KN27T0087 414346.59N-0762722.85W 807 12.29
KN27T0498 414129.14N-0762930.13W 1649 356.43
KN27T0509 414128.58N-0762936.83W 1663 360.49
KN27T0243 414302.17N-0762751.29W 1042 102.65
KN27T0095 414344.50N-0762726.36W 811 6.70
KN27T0281 414254.18N-0762754.01W 1076 113.69
KN27T0105 414340.52N-0762727.72W 824 8.26
KN27T0271 414256.15N-0762754.02W 1064 106.48
CONT.

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	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

QUALITY CHECKED

CITY AND STATE	ELEVATION: 730 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
TOWANDA, PA	BRADFORD COUNTY	RNAV	RNAV (GPS)-A, ORIG	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS ☐ FAA ☐ A/C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

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

KN27T0529 414126.44N-0762943.12W 1672 356.23
KN27T0215 414306.13N-0762748.63W 1001 74.70
KN27T0460 414134.39N-0762903.70W 1538 292.05
KN27T0262 414258.14N-0762754.10W 1037 84.23
KN27T0187 414314.27N-0762740.56W 936 39.86
KN27T0156 414321.67N-0762734.49W 892 21.66
KN27T0456 414129.56N-0762851.82W 1524 281.47
KN27T0198 414309.60N-0762743.27W 954 43.01
KN27T0455 414132.81N-0762857.15W 1515 273.58
KN27T0465 414134.57N-0762910.71W 1535 280.52
KN27T0160 414321.72N-0762737.30W 876 2.19
KN27T0256 414300.11N-0762754.07W 1000 52.07
KN27T0203 414309.73N-0762745.79W 938 24.11
KN27T0196 414312.05N-0762745.99W 914 5.51
KN27T0222 414306.33N-0762751.02W 946 17.13
KN27T0475 414133.74N-0762917.30W 1516 251.06
KN27T0287 414254.42N-0762756.96W 988 22.50
KN27T0238 414304.31N-0762753.77W 939 1.69
KN27T0481 414133.85N-0762923.93W 1501 227.85
KN27T0444 414134.24N-0762847.67W 1407 181.19
KN27T0490 414133.74N-0762930.29W 1500 218.44
KN27T0496 414133.33N-0762936.53W 1505 214.46
KN27T0457 414139.87N-0762912.14W 1414 170.60
KN27T0506 414132.13N-0762942.73W 1511 209.60
KN27T0442 414137.36N-0762853.19W 1377 151.73
KN27T0451 414139.88N-0762905.53W 1392 157.09
KN27T0446 414139.30N-0762858.59W 1378 150.55
KN27T0445 414144.85N-0762907.94W 1347 121.12
KN27T0524 414129.70N-0762948.19W 1497 182.69
KN27T0438 414143.43N-0762902.07W 1336 114.17
KN27T0467 414139.50N-0762921.62W 1392 135.57
KN27T0477 414138.87N-0762928.21W 1392 125.61
KN27T0433 414140.23N-0762850.06W 1294 79.73
KN27T0429 414148.53N-0762902.52W 1280 70.02
KN27T0505 414135.19N-0762948.38W 1435 133.83
KN27T0453 414144.51N-0762916.13W 1326 88.81
KN27T0493 414137.19N-0762941.93W 1409 120.96
KN27T0462 414144.29N-0762923.65W 1336 88.65
KN27T0432 414143.74N-0762856.43W 1278 64.14
KN27T0434 414148.94N-0762908.19W 1280 63.77
KN27T0483 414138.26N-0762935.28W 1383 106.08
KN27T0428 414139.33N-0762844.27W 1265 55.95
KN27T0408 414154.51N-0762838.69W 1189 24.09
KN27T0468 414143.31N-0762929.28W 1342 85.06
KN27T0403 414157.56N-0762832.59W 1155 5.33
KN27T0423 414149.00N-0762856.75W 1242 40.55
KN27T0420 414146.41N-0762846.39W 1230 35.49
KN27T0425 414144.51N-0762850.68W 1232 27.37
KN27T0449 414148.54N-0762920.26W 1279 46.35
KN27T0411 414151.52N-0762841.14W 1180 4.67
KN27T0454 414148.94N-0762925.45W 1281 42.69
KN27T0440 414149.10N-0762913.97W 1253 29.76
KN27T0422 414153.88N-0762902.93W 1205 7.54
KN27T0479 414142.22N-0762937.45W 1327 56.95
KN27T0463 414147.32N-0762931.86W 1292 41.54
KN27T0426 414153.44N-0762908.32W 1210 4.57
KN27T0522 414132.74N-0762953.92W 1380 65.77
KN27T0473 414146.43N-0762939.34W 1279 16.80
KN27T0501 414138.94N-0762949.90W 1330 36.03
KN27T0488 414142.60N-0762945.31W 1302 22.82
34:1/20:1 PENETRATIONS EMAILED TO EST FPO

RADIO FIX AND HOLDING DATA RECORD

NAME: WITAD **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 414812.35N/0762315.71W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KN27	TOWANDA	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 01/09/2012 **OFFICE:** AJV-352 **NAME:** KHALED SALEM

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: BGM APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YULUS **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 413505.64N/0763530.80W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KN27	TOWANDA	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/10/2012 **OFFICE:** AJV-352 **NAME:** KHALED SALEM

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: BGM APP CON
OTHER:

QUALITY CHECKED 4

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEGUK **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 413735.54N/0763311.21W **TYPE:** WP

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

REMARKS:
LNAV/VNAV FORMULA USED TO ESTABLISH PFAF LOCATION.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KN27	TOWANDA	PA (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 05/31/2012

DEVELOPED BY: **DATE:** 01/09/2012 **OFFICE:** AJV-352 **NAME:** KHALED SALEM

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: BGM APP CON
OTHER:

QUALITY 4 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: OKZUS **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 415403.58N/0762001.39W **TYPE:** WP, 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	ELMIRA	ULW	VOR/DME	L	122.31	110.31	33.02	33.02		4500	17500

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	NE		WP	031.53	211.53	R		4	3500	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	415500.00N/0761448.00W	2018	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V36					(US)
IAP	RNAV (GPS) RWY 3			KCZG	ENDICOTT	NY (US)
IAP	RNAV (GPS) RWY 23		1	KN27	TOWANDA	PA (US)
IAP	RNAV (GPS) RWY 5		1	KN27	TOWANDA	PA (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 06/03/2010

REASON FOR REVISION:
REVISED MRA FROM 3500 TO 4500
REVISED FAC 1 RADIAL FROM 110.32 TO 110.31
ADDED DIST FROM FAC 33.02 NM
UPDATED FIX USE
UPDATED HOLDING PATTERN 1 CONTROLLING OBSTACLE.
UPDATED PATTERN 1 MAX TEMPLATE FROM 5 TO 6.

DEVELOPED BY: **DATE:** 12/09/2009 **OFFICE:** AVN-110 **NAME:** EDWARD DAVIS

APPROVED BY: **DATE:** 03/19/2010 **OFFICE:** AVN-110 **NAME:** GEORGE DAVIS

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: BGM APP CON
OTHER:

INFO ONLY

RADIO FIX AND HOLDING DATA RECORD

NAME: WILLIAMSPORT VOR/DME **STATE:** PA **COUNTRY:** US

LATITUDE/LONGITUDE: 412018.81N/0764629.52W **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	WILLIAMSPORT	FQM	VOR/DME	L						3000	41000

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	W	FQM	VOR/DME	290.00	110.00	R	1 1/2		18000	41000		28

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8000.

REMARKS:
PAT 1 CHART ENROUTE HIGH
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SCRANTON			KAVP	WILKES-BARRE/SCRANTON	PA (US)
EN ROUTE	J584		1			(US)
EN ROUTE	V31, V58, V164, V188, V423, V576					(US)
IAP	RNAV (GPS) - B			KN13	BLOOMSBURG	PA (US)
IAP	RNAV (GPS) - A			KLHV	LOCK HAVEN	PA (US)
IAP	RNAV (GPS) RWY 5			KN27	TOWANDA	PA (US)
IAP	ILS OR LOC RWY 27			KIPT	WILLIAMSPORT	PA (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	LEGGO (RNAV)			KIAD	WASHINGTON	DC (US)
STAR	SELINSGROVE			KIAD	WASHINGTON	DC (US)
STAR	PENNS			KEWR	NEWARK	NJ (US)
STAR	WILLIAMSPORT		1	KEWR	NEWARK	NJ (US)
STAR	ELMIRA			KELM	ELMIRA	NY (US)
STAR	RUBER			KSWF	NEWBURGH	NY (US)

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

COMPULSORY REPORTING POINT: LOW

RECORD REVISION NUMBER: 5 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
1. UPDATED COORDINATES FROM 412018.80N/0764629.50W TO 412018.81N/0764629.52W.
2. DELETED REMARK, BELOW 8000 - HOLDING LIMITED TO ESTABLISHED PATTERN.
3. MOVED REMARK, UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 8000, TO HOLDING RESTRICTIONS.
4. ADDED REMARK, PRECIPITOUS TERRAIN EVALUATION COMPLETED.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 11/30/2011 **OFFICE:** AJV-352 **NAME:** DAVID SAUER

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZNY
ATC FACILITY: IAD ATCT
OTHER:

INFO ONLY QUALITY 4 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **TOWANDA** STATE: **PA**

AIRPORT NAME: **BRADFORD COUNTY** ID: **KN27**

PROCEDURE: **RNAV (GPS) RWY 5** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(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	**7.54**
(Enter THLD, FAF, ARP, FACILITY, as appropriate)			
2. Width of	**FINAL**	segment at 1000' point	**1.76**
(Enter appropriate segment, final, intermediate, etc.)			
3. True Course of	**FINAL**	segment containing 1000' point	**034.96**
4. High Terrain in	**FINAL**	segment containing 1000' point	**2133**
5. Distance from	**THLD**	to 1500' point	**11.00**
(If 1500' point in PT maneuvering area or holding pattern note in remarks)			
6. Width of	**INTERMEDIATE**	segment at 1500' point	**4.00**
7. True Course of	**INTERMEDIATE**	segment containing 1500' point	**034.96**
8. High Terrain in	**INTERMEDIATE**	segment containing 1500' point	**2319**

9. Threshold Coordinates (if straight-in) ... **414406.65N** / **0762705.96W**

10. ARP Coordinates ..... **414424.00N** / **0762649.70W**

11. Runway Approach End and distance furthest from ARP ..... RWY **23**

Distance **0.35** NM

12. FAF Coordinates ..... **413736.16N** / **0763310.64W**

REMARKS: Approach/Drawing attached.