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
BUF VOR/DME	WABUS (FO)	246.75 / 15.31	3000
LANGS	RITEE (FB)	036.38 / 6.40	3700
VICCU (IAF)	WABUS (NOPT) (FB)	139.72 / 7.89	3000
RITEE (IAF)	WABUS (NOPT) (FB)	329.89 / 8.40	3000
WABUS (IF/IAF)	HIRIN (FB)	054.81 / 7.00	2400
HIRIN (FAF)	LANEC/2.50 NM TO RW05 (FB)	054.88 / 2.76	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW05

CLIMB TO 3000 DIRECT TRAVA AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SW WABUS, RT, 054.81 INBOUND, 3000 FT. IN LIEU OF PT (IAF)
3. FAC: 054.88 FAF: HIRIN DIST FAF TO MAP: 5.26 THLD: 5.26
4. MIN. ALT: WABUS 3000, HIRIN 2400, LANEC/2.50 NM TO RW05 1520*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2400 GS ALT AT: HIRIN 2400 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 45.6 34:1 IS CLEAR
8. MSA FROM: RW05 3900

ADDITIONAL FLIGHT DATA:
HOLD NE, RT, 235.07 INBOUND.
CHART FAS OBST: 809 TOWER 425547N/0784521W
DISTANCE TO THLD FROM 200 HATH: 0.49 NM.
CHART VDP AT 1.05 MILES TO RW05*
*LNAV ONLY.
WAAS CHANNEL # 70311
REFERENCE PATH ID: W05A
LTP HAE: 172.4 M

MAG VAR: 11W EPOCH YEAR: 2015

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A 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
LPV DA	881	2400	200	881	2400	200	881	2400	200	881	2400	200			
LNAV/VNAV DA	970	2400	289	970	2400	289	970	2400	289	970	2400	289			
LNAV MDA	1060	2400	379	1060	2400	379	1060	3500	379	1060	3500	379			
CIRCLING	1200	1	473	1200	1	473	1200	1 1/2	473	1280	2	553			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 39C (102F).
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VICCU ON V2-43 WESTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LANGS ON V115 SOUTHWEST BOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BUF VOR/DME AIRWAY RADIALS 158 CW 314.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	RNAV	RNAV (GPS) RWY 5, AMDT 2	AMDT: 1A
				DATED 11/18/2010

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[X]	[ ]	[X]	[X]	[X]	[X]	[X] ZOB, BUF APP CON, AMGR, NY DOT

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: DONALD E. SMITH (BRIAN BERUBEE)	FIFO AJV-352	DATE: 02/16/2012

APPROVED BY		
NAME: DARRYEL ADAMS MANAGER	FIFO AJV-352	DATE:

CHANGES:

1. CHANGED MAGVAR FROM 9W TO 11W
2. CHANGED FINAL COURSE FROM 052.89 TO 054.88
3. CHANGED DIST FROM FAF FROM 4.87 TO 5.26
4. CHANGED TCH FROM 45.3 TO 45.6
5. CHANGED TDZE TO THRE
6. CHANGED INTERMEDIATE COURSE/DIST FROM 052.82/6 TO 054.81/7
7. CHANGED H-I-L INBOUND COURSE FROM 052.82 TO 054.81
8. RAISED PFAF ALTITUDE FROM 2300 TO 2400
9. ADDED SDF AT 2.5 NM
10. CHANGED VICCU INITIAL COURSE/DIST FROM 142.76/5 TO 139.72/7.89
11. CHANGED RITEE INITIAL COURSE/DIST FROM 322.88/5 TO 329.89/8.4
12. ADDED FEEDER FROM BUF V/DME AND LANGS
13. DELETED TAA
14. UPDATED BARO-VNAV NOTE

SEE 8260-10

REASONS:

1. FPT REQUEST
2/6/7. MAGVAR/OPTIMIZATION
3. PFAF LOCATION
4. AVNIS
5. SURVEY
8. CONSISTANT WITH ILS
9. ACHIEVE LOWEST MINIMUMS
10/11/19. TURN CRITERIA
12. DELETED TAA
13. ATC REQUEST
14/18/19. CRITERIA
15/16/17. OBSTACLE STUDY

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
LANEC/2.50 NM TO RW05	RW05 (MAP) (FO)	054.91 / 2.50	
RW05 (MAP)	881 MSL	054.91	
881 MSL	TRAVA (FO)		3000

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	RNAV	RNAV (GPS) RWY 5, AMDT 2	AMDT: 1A
				DATED: 11/18/2010

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.
15. LOWERED LPV DA FROM 973 TO 881
16. LOWERED VNAV DA FROM 1077 TO 970 AND VIS FROM 50 TO 24
17. LOWERED LNAV MDA FROM 1080 TO 1060
18. RAISED LNAV CAT C VIS FROM 24 TO 35 AND LOWERED CAT D FROM 50 TO 35
19. ADDED PROCEDURE ENTRY RESTRICTION NOTES
20.DELETED INOP EQUIPMENT NOTES

REASONS:

QUALITY 2 CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBUF
RUNWAY	RW05
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W05A
LTP/FTP LATITUDE	425556.1235N
LTP/FTP LONGITUDE	0784425.0755W
LTP/FTP ELLIPSOIDAL HEIGHT	+01724
FPAP LATITUDE	425700.2900N
FPAP LONGITUDE	0784300.8900W
THRESHOLD CROSSING HEIGHT (TCH)	00045.6
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0224
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	1A4029C6

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02074
FPAP ORTHOMETRIC HEIGHT	+02074

QUALITY 2 CHECKED

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				DATED: 11/18/2010

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☐ 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:

REASONS:

QUALITY 2 CHECKED

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        BUF   K6011640VDH  N42554439W078384683    N42554439W078384683W0080007302     NARBUFFALO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SCANEAENRT   VICCU CY0    C   L N42520235W079041990                      W0105     NAR           VICCU
        SUSAEAENRT   HIRIN K60    W     N42520887W078492266                      W0107     NAR           HIRIN
        SUSAEAENRT   LANEC K60    W     N42540806W078464670                      W0108     NAR           LANEC
        SUSAEAENRT   LANGS K60    C   L N42345935W078521102                      W0106     NAR           LANGS
        SUSAEAENRT   RITEE K60    W     N42404609W078482808                      W0107     NAR           RITEE
        SUSAEAENRT   TRAVA K60    C     N43051836W078320508                      W0110     NAR           TRAVA
        SUSAEAENRT   WABUS K60    W     N42470581W078555817                      W0106     NAR           WABUS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6ABUF     0     088YHN42562550W078435010W011000727         1800018000C    MNAR    BUFFALO NIAGARA INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6FR05   ABUF   010BUF  K6D 0V       IF                                                18000                 A JS
        SUSAP KBUFK6FR05   ABUF   020WABUSK6EA0EY   020TF                     24680153    + 03000                             A JS
        SUSAP KBUFK6FR05   ABUF   030WABUSK6EA0EE AR   HF                     05480040    + 03000                             A JS
        SUSAP KBUFK6FR05   ALANGS 010LANGSK6EA0E       IF                                                18000                 A JS
        SUSAP KBUFK6FR05   ALANGS 020RITEEK6EA0E  A 020TF                     03640064    + 03700                             A JS
        SUSAP KBUFK6FR05   ALANGS 030WABUSK6EA0EE B 010TF                     32990084    + 03000                             A JS
        SUSAP KBUFK6FR05   AVICCU 010VICCUCYEA0E  A    IF                                                18000                 A JS
        SUSAP KBUFK6FR05   AVICCU 020WABUSK6EA0EE B 010TF                     13970079    + 03000                             A JS
        SUSAP KBUFK6FR05   R      010WABUSK6EA0E  I    IF                                 + 03000     18000                 A JS
        SUSAP KBUFK6FR05   R      020HIRINK6EA1E  F 051TF                     05480070    + 02400                  RW05  K6PGA JS
        SUSAP KBUFK6FR05   R      020HIRINK6EA2WALPV       ALNAV/VNAV ALNAV                                                     JS
        SUSAP KBUFK6FR05   R      021LANECK6EA0E S  031TF                     05490028    V 0152001522        -300          A JS
        SUSAP KBUFK6FR05   R      030RW05 K6PG0GY M 031TF                     05490025      00726             -300          A JS
        SUSAP KBUFK6FR05   R      040          0  M     CA                     0549        + 00881                             A JS
        SUSAP KBUFK6FR05   R      050TRAVAK6EA0EY      DF                                 + 03000                             A JS
        SUSAP KBUFK6FR05   R      060TRAVAK6EA0EE  R   HM                     23510040    + 03000                             A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: **BUFFALO NIAGARA INTL**	**RNAV**	**RNAV (GPS) RWY 5, AMDT 2**	AMDT: **1A**
				DATED: **11/18/2010**

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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```
        SUSAP KBUFK6GRW05    0088290549 N42555612W078442508+0600    +0172400681053546150I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6PR05   RW05 001 0000W05A0N4255561235W07844250755+017240300N4257002900W078430089001067502240004 56F4003501A4029C6
        SUSAP KBUFK6PR05   RW05 002E      +02074+02074LPV       70311

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KBUFK6SRW05 K6PG                0   18018003925                                                                          M
```

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: BUFFALO NIAGARA INTL	RNAV	RNAV (GPS) RWY 5, AMDT 2	AMDT: 1A
				DATED: 11/18/2010

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

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR PART 97.33**

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	BUF	BUF	010		IF		FB					
	BUF	WABUS	020		TF		FO	2.0	246.8(235.8T)	015.3	AA 03000	
	BUF	WABUS	030	IAF	HF	R	FO		054.8(043.8T)	004.0	AA 03000	
	LANGS	LANGS	010		IF		FB					
	LANGS	RITEE	020	IAF	TF		FB	2.0	036.4(025.4T)	006.4	AA 03700	
	LANGS	WABUS	030		TF		FB	1.0	329.9(318.9T)	008.4	AA 03000	
	VICCU	VICCU	010	IAF	IF		FB					
	VICCU	WABUS	020		TF		FB	1.0	139.7(128.7T)	007.9	AA 03000	
		WABUS	010	FACF	IF		FB				AA 03000	
		HIRIN	020	FAF	TF		FB	0.5	054.8(043.8T)	007.0	AA 02400	
		LANEC	021	SDF	TF		FB	0.3	054.9(043.9T)	002.8	AA 01520 GS 01522	
		RW05	030	MAP	TF		FO	0.3	054.9(043.9T)	002.5	AT 00726	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		054.9(043.9T)		AA 00881	
	TRAVA	050		DF		FO				AA 03000	
	TRAVA	060		HM	R	FO		235.1(224.1T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	BUF	N425544.39	W0783846.83	N4255.740	W07838.781
	VICCU	N425202.35	W0790419.90	N4252.039	W07904.332
	HIRIN	N425208.87	W0784922.66	N4252.148	W07849.378
	LANEC	N425408.06	W0784646.70	N4254.134	W07846.778
	LANGS	N423459.35	W0785211.02	N4234.989	W07852.184
	RITEE	N424046.09	W0784828.08	N4240.768	W07848.468
	TRAVA	N430518.36	W0783205.08	N4305.306	W07832.085
	WABUS	N424705.81	W0785558.17	N4247.097	W07855.970
	RW05	N425556.12	W0784425.08	N4255.935	W07844.418

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW05	00681	46

QUALITY CHECKED

CITY AND STATE	ELEVATION: 727 THRE: 681	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
BUFFALO, NY	AIRPORT NAME: **BUFFALO NIAGARA INTL**	**RNAV**	**RNAV (GPS) RWY 5, AMDT 2**	AMDT: **1A**
				DATED: **11/18/2010**

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	BUF VOR/DME	WABUS	1. TOWER (36-000147)	424951.00N/0784759.00W	1103 (2C)	1000	AT897	3000
			2. TERRAIN	425415.00N/0783733.00W	732 (700)		AS1500	2200
FEEDER	LANGS	RITEE	3. AAO	423824.00N/0784700.00W	1700 (4E)	2000		3700
			4. TERRAIN	423824.00N/0784703.00W	1500 (1500)		AS1500	3000
INITIAL	VICCU	WABUS	5. AAO	425040.80N/0790557.90W	910 (2C)	1000	AT1090	3000
			6. TERRAIN	425236.00N/0790327.00W	676 (700)		AS1500	2200
INITIAL	RITEE	WABUS	7. AAO	424000.00N/0784715.00W	1519 (4E)	1000	AT481	3000
			8. TERRAIN	424130.00N/0784557.00W	1119 (1100)		AS1500	2600
INTERMEDIATE	WABUS (IF/IAF)	HIRIN	9. WNDMLL (36-020196)	424900.30N/0785202.84W	1066 (4D)	500	DG834	2400
			10. TERRAIN	424700.00N/0784930.00W	667 (700)		AS1500	2200
FINAL: LPV	HIRIN	RW05				ASC		881/200
FINAL: LNAV/VNAV	HIRIN	RW05	11. TOWER (36-020715)	425547.11N/0784520.68W	809 (1A)	21.4:1		970/289
FINAL: LNAV	HIRIN	LANEC/2.50 NM TO RW05	12. AAO	425357.00N/0784809.00W	847 (2C)	250	DG423	1520
2. HOLD-IN-LIEU-OF-PT	WABUS	P-5	9. WNDMLL (36-020196)	424900.30N/0785202.84W	1066 (4D)	1000	AT934	3000
			13. TERRAIN	424306.00N/0785403.00W	804 (800)		AS1500	2300
3. MISSED APPROACH — MAP:	DA / DA / RW05	TRAVA				ASC		3000
			14. AAO	425915.00N/0783745.00W	1001 (4E)	1000		2100
ELEV:	716/809/960		15. TERRAIN	425915.00N/0783745.00W	801 (800)		AS1500	2300

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	473	16. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300		1200
CATEGORY B	1.5 NM	450	473	16. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300		1200
CATEGORY C	1.7 NM	450	473	16. ANT ON ATCT	425623.84N/0784311.00W	885 (1A)	300		1200
CATEGORY D	2.3 NM	550	553	17. TOWER (36-002774)	425409.41N/0784340.73W	909 (1A)	300	HAA	1280
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 (36-000139)	174/ 18.5	2806 (2C)	3900					

QUALITY CHECKED 2

CITY AND STATE	ELEVATION: 727 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BUFFALO, NY	BUFFALO NIAGARA INTL	RNAV	RNAV (GPS) RWY 5, AMDT 2	AEA

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
BUF TOWER BUF APP CON	N W S / F A A / A / C — OTHER: ASOS	SOURCE: KBUF DISTANCE: HOURS REMOTE OPERATION:
SATISFACTORY ON: X VHF X UHF HF	LOCATION: KBUF	ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: CAT 3	
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 23
		(S) SALS
	X	MALSR 05, 32
	X	HIRL 05, 23, 14, 32
		MIRL
	X	REIL 14, 32
	X	TDZ 05, 23
	X	C/L 05, 23
	X	OTHER (SPECIFY) PAPI-4L 14, 32
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 05, 23, 32
	INSTRUMENT	NPI-G 14
7. RUNWAY VISUAL RANGE	APPROACH	05, 23
	MIDFIELD	23
	ROLL OUT	05, 23
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 680.6
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.6
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: 02/16/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-352

PART C - REMARKS:

THRESHOLD DISPLACED 535 FT.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

SEE ATTACHED AIRSPACE LETTER.

100' VEGETATION APPLIED UNLESS OTHERWISE NOTED

KBUF ASOS ON SVC A
REDUNDANT WEATHER SOURCES ON APT

LPV SLOPE: 34:1
VNAV SLOPE: 25.511

AVERAGE COLD TEMPERATURE (-17C) BASED ON 5-YEAR HISTORY (2006-2010)

VGSI DATA: NONE

OBST#11 MANUALLY EVALUATED USING 7.5 MIN QUAD

OBST #7 REQUIRES F/C VERIFICATION FOR 4D ACCURACY

QUALITY 2 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.
FINAL: LNAV STEPDOWN	LANEC/2.50 NM TO	RW05	11. TOWER (36-020715)	425547.11N/0784520.68W	809 (1A)	250		1060
	RW05							

3. MISSED APPROACH									
	MAP:								
	ELEV:								

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

5. MINIMUM SAFE ALTITUDES PRIMARY NAVAID:

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

QUALITY CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
BUFFALO, NY	ELEVATION: 727 AIRPORT NAME: BUFFALO NIAGARA INTL	RNAV	RNAV (GPS) RWY 5, AMDT 2	AEA

PART B - SUPPLEMENTAL DATA

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

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BUFFALO VOR/DME **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425544.39N/0783846.83W **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	BUFFALO	BUF	VOR/DME	H							45000

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

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	230	TOWER (36-000139)	423814.00N/0783711.00W	2806	2C
UPN	265	TOWER (36-000139)	423814.00N/0783711.00W	2806	2C

REMARKS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 11000
PATTERN PENETRATES R-5203 048 CW 067 ABOVE FL360, 041 CW 086 ABOVE FL380, 034 CW 090 ABOVE FL400, 029 CW 097 ABOVE FL440

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	BUFFALO DP			KBUF	BUFFALO	NY (US)
EN ROUTE	V2, V14, V33, V43, V115, V164, V510, J16, J61, J94, J95, J109, J220, J531, J547					(US)
IAP	RNAV (GPS) - B			K9G6	ALBION	NY (US)
IAP	RNAV (GPS) RWY 10			KGVQ	BATAVIA	NY (US)
IAP	ILS OR LOC RWY 23			KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC RWY 5			KBUF	BUFFALO	NY (US)
IAP	ILS OR LOC/DME RWY 32			KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 23			KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 32			KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 5			KBUF	BUFFALO	NY (US)
IAP	GPS RWY 24			KDKK	DUNKIRK	NY (US)
IAP	VOR/DME RNAV RWY 22			KOLE	OLEAN	NY (US)
IAP	RNAV (GPS) RWY 07			KROC	ROCHESTER	NY (US)
STAR	SWEDE ARRIVAL			KBDL	WINDSOR LOCKS	CT (US)
STAR	SPICA ARRIVAL			KDTW	DETROIT	MI (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATED FACILITY DATA
DELETED HOLDING PATTERN 1 AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: HIRIN **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425208.87N/0784922.66W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 2342 FT SOUTHWEST
DELETED FAC1 AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LANEC **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 425408.06N/0784646.70W **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			KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

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

DEVELOPED BY: **DATE:** 02/08/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LANGS **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 423459.35N/0785211.02W **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	JAMESTOWN	JHW	VOR/DME	H	032.22	025.22	26.18	26.18		3900	17500
2	DUNKIRK	DKK	VORTAC	H	079.66	072.66	18.78	18.78		3300	17500

FIX RESTRICTIONS:
MCA V115 11000 NORTHEAST BOUND

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

REMARKS:
JAMESTOWN (FAC 1) AND DUNKIRK (FAC 2) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V115	1, 2				(US)
EN ROUTE	V464	1, 2				(US)
IAP	RNAV (GPS) RWY 32			KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 5			KBUF	BUFFALO	NY (US)
IAP	GPS RWY 24			KDKK	DUNKIRK	NY (US)
IAP	GPS RWY 33			KDKK	DUNKIRK	NY (US)
IAP	RNAV (GPS) RWY 28			K0G0	LOCKPORT	NY (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC 1/2
CHANGED FAC BRG FROM 032.20 TO 032.22
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/16/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: ERI APP CON
OTHER: BUF APP CON

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RITEE **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 424046.09N/0784828.08W **TYPE:** WP

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

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

REMARKS:
FIX NAME RETAINED AT ATC REQUEST DUE TO OPERATIONAL NECCESITY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 5			KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 3.98 NM SOUTH
DELETED FAC 1 (WABUS) AND ASSOCIATED DATA
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: TRAVA **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 430518.36N/0783205.08W **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	BUFFALO	I-BUF	LOC		054.95	043.95		13.19		3000	12000
2	GENESEO	GEE	VOR/DME	L	302.60	293.60	38.48	38.48		3000	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	055.07	235.07	R		4	3000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	430542.00N/0782421.00W	916	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
BUFFALO (FAC 1) AND GENESEO (FAC 2) USED TO ESTABLISH FIX COORDINATES
PRECIPITOUS TERRAIN EVALUATION COMPLETE
PRIOR COORDINATION REQUIRED WITH CONTROLLING AGENCY FOR HOLDING OVER MISTY MOA ABOVE 6000 FEET
FIX NAME RETAINED AT ATC REQUEST DUE TO OPERATIONAL NECCESITY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 23	1, 2		KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 23		1	KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 5		1	KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 1.06 NM NORTHEAST
DELETED FAC 3 AND ASSOCIATED DATA
CHANGED FAC 1 BRG FROM 052.94 TO 054.95
CHANGED FAC 2 BRG/DIST FROM 301.14/38.87 TO 302.60/38.48
ADDED DIST FROM FAC 1/2
CHANGED HOLDING PATTEN INBOUND COURSE FROM 233.06 TO 235.07
UPDATED HOLDING PATTERN CONTROLLING OBSTACLE
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/03/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: VICCU **STATE:** **COUNTRY:** CA

LATITUDE/LONGITUDE: 425202.35N/0790419.90W **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	BUFFALO	BUF	VOR/DME	H	267.00	259.00	19.14	19.14		3000	17500

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

REMARKS:
BUFFALO (FAC 1) USED TO ESTABLISH FIX COORDINATES
FIX NAME RETAINED AT ATC REQUEST DUE TO OPERATIONAL NECCESITY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V2-43	1				(CA)
IAP	RNAV (GPS) RWY 5			KBUF	BUFFALO	NY (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 3.53 NM SOUTHWEST
ADDED DME TO TYPE
DELETED FAC 1 (WABUS) AND ASSOCIATED DATA
ADDED FAC 1 AND ASSOCIATED DATA
UPDATED CHART REQUIREMENTS
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER: NAV CANADA

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: WABUS **STATE:** NY **COUNTRY:** US

LATITUDE/LONGITUDE: 424705.81N/0785558.17W **TYPE:** WP

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

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	SW		WP	234.81	054.81	R		4	3000	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	WINDMILL (36-020196)	424900.30N/0785202.84W	1066	4D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETE
FIX NAME RETAINED AT ATC REQUEST DUE TO OPERATIONAL NECCESITY

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 23		1	KBUF	BUFFALO	NY (US)
IAP	RNAV (GPS) RWY 5		1	KBUF	BUFFALO	NY (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
REPOSITIONED FIX 1.39 NM SOUTHWEST
DELETED FAC 1 AND ASSOCIATED DATA
CHANGED HOLDING PATTERN INBOUND COURSE FROM 052.82 TO 054.81
CHANGED HOLDING PATTERN OBST FROM 1040 TOWER TO 1066 WINDMILL
UPDATED FIX USE

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-352 **NAME:** DONALD SMITH (BRIAN BERUBEE)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: EST
ARTCC: ZOB
ATC FACILITY: BUF APP CON
OTHER:

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **BUFFALO** STATE: **NY**

AIRPORT NAME: **BUFFALO NIAGARA INTL** ID: **KBUF**

PROCEDURE: **RNAV (GPS) RWY 5** AMDT: **AMDT 2**

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 **3.06**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.20**
   (Enter appropriate segment , final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **43.88**
4. High Terrain in **FINAL** segment containing 1000' point **686**
5. Distance from **THLD** to 1500' point **4.63**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **1.27**
7. True Course of **FINAL** segment containing 1500' point **43.88**
8. High Terrain in **FINAL** segment containing 1500' point **686**
9. Threshold Coordinates (if straight-in) ... **425556.12N** / **0784425.08W**
10. ARP Coordinates ..... **425625.50N** / **0784350.10W**
11. Runway Approach End and distance furthest from ARP.....RWY **05**
    Distance **.74** NM
12. FAF Coordinates ..... **425208.87N** / **0784922.66W**
    (Click to Select)

REMARKS: Approach/Drawing attached.

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Darryel Adams, Manager, Terminal Procedures & Charting Services, Eastern Team, AJV-352

Subject: **ACTION:** Magnetic Variation Change

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

TAKE-OFF MINIMUMS AMDT 6
ILS OR LOC RWY 23, AMDT 30
ILS OR LOC RWY 5, AMDT 15
ILS OR LOC/DME RWY 32, AMDT 1
RNAV (GPS) RWY 14, AMDT 1
RNAV (GPS) RWY 32, AMDT 2
RNAV (GPS) RWY 23, AMDT 2
RNAV (GPS) RWY 5, AMDT 1
SID BUFFALO FOUR

Estimated Chart Date: 07/26/2012

Runway Numbers are not affected.

Please publish these changes in the National Flight Data Digest.

New York

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Buffalo	Buffalo Niagara Intl	Airport	KBUF / BUF	Old 9 ° West New 11 ° West	2015
Buffalo		ILS	GBI	Old 9 ° West New 11 ° West	2015
Buffalo		ILS	BUF	Old 9 ° West New 11 ° West	2015