

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.											
US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION															
TERMINAL ROUTES				MISSED APPROACH											
FROM	TO	COURSE AND DISTANCE	ALTITUDE	LPV: DA LNAV/VNAV: DA LNAV: RW23 CLIMB TO 3000 DIRECT WABUS AND HOLD. ADDITIONAL FLIGHT DATA: HOLD SW, RT, 054.81 INBOUND. FAS OBST: 889 AAO 425924N/0783812W DISTANCE TO THLD FROM 200 HAT: 0.46 NM. CHART VDP AT 1.14 MILES TO RW23* *LNAV ONLY. WAAS CHANNEL # 77511 REFERENCE PATH ID: W23A LTP HAE: 186.1 M											
BULGE	WASKI (FB)	153.27 / 18.73	3000												
ROC VOR/DME	TOPKE (FB)	268.40 / 33.00	3000												
BUF VOR/DME	TRAVA (FO)	038.15 / 10.75	3000												
WASKI (IAF)	TRAVA (NOPT) (FB)	144.99 / 8.00	3000												
TOPKE (IAF)	TRAVA (NOPT) (FB)	325.16 / 8.00	3000												
TRAVA (IF/IAF)	BERKI (FB)	235.07 / 7.00	2300												
BERKI (FAF)	RW23 (MAP) (FO)	235.00 / 4.78													
(SEE FORM 8260-10)															
1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF) 2. HOLD NE TRAVA, RT, 235.07 INBOUND, 3000 FT. IN LIEU OF PT (IAF) 3. FAC: 235.00 FAF: BERKI DIST FAF TO MAP: 4.78 THLD: 4.78 4. MIN. ALT: TRAVA 3000, BERKI 2300 5. DIST TO THLD FROM OM: MM: IM: 150 HAT: 100 HAT: GS ANT: 6. MIN GS INCPT: 2300 GS ALT AT: BERKI 2300 OM: MM: IM: 7. GS ANGLE: 3.00 TCH: 51.1 34:1 IS CLEAR 8. MSA FROM: RW23 3900				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	926	2400	200	926	2400	200	926	2400	200	926	2400	200			
LNAV/VNAV DA	1050	3000	324	1050	3000	324	1050	3000	324	1050	3000	324			
LNAV MDA	1140	2400	414	1140	2400	414	1140	4000	414	1140	4000	414			
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 54C (130F). CHART NOTE: DME/DME RNP-0.3 NA. CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BULGE ON V164 NORTHBOUND OR V252 NORTHWEST BOUND. (SEE FORM 8260-10)															
CITY AND STATE		ELEVATION: 727 TDZE: 726		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE:				SUP: RNAV (GPS) RWY 23					
BUFFALO, NY		AIRPORT NAME: BUFFALO NIAGARA INTL				RNAV (GPS) Y RWY 23, AMDT 2B 18 SEPTEMBER 2014				AMDT: 2A					
										DATED 04/18/2014					

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW23 (MAP)	926 MSL	235.00	
926 MSL	WABUS (FO)		3000

NOTES, (CONT.):

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON ROC VOR/DME AIRWAY RADIALS 201 CW 291.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS ON BUF VOR/DME AIRWAY RADIALS 314 CW 106.

CITY AND STATE
BUFFALO, NY

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RNAV (GPS) Y RWY 23, AMDT 2B
18 SEPTEMBER 2014

SUP: RNAV (GPS) RWY 23
AMDT: 2A
DATED: 04/18/2014

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBUF
RUNWAY	RW23
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W23A
LTP/FTP LATITUDE	425649.9475N
LTP/FTP LONGITUDE	0784314.4720W
LTP/FTP ELLIPSOIDAL HEIGHT	+01861
FPAP LATITUDE	425545.7765N
FPAP LONGITUDE	0784438.6465W
THRESHOLD CROSSING HEIGHT (TCH)	00051.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0280
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0

CRC REMAINDER

3EA2B0E3

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02213
FPAP ORTHOMETRIC HEIGHT	+02213

CITY AND STATE

BUFFALO, NY

ELEVATION: 727

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BUFFALO NIAGARA INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:

RNAV (GPS) Y RWY 23, AMDT 2B

18 SEPTEMBER 2014

SUP: RNAV (GPS) RWY 23

AMDT: 2A

DATED: 4/18/2014



RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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)

[illegible][illegible][illegible][illegible][illegible]

CITY AND STATE BUFFALO, NY	ELEVATION: 727	TDZE: 726	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 23
	AIRPORT NAME:			RNAV (GPS) Y RWY 23, AMDT 2B	AMDT: 2A
	BUFFALO NIAGARA INTL		RNAV	18 SEPTEMBER 2014	DATED: 04/18/2014

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

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SUSAP KBUFK6GRW23 0088292350 N42564995W078431447-0600 +0186100726072551150IIBUF1

[illegible]

SUSAP KBUF6KPR23-Y RW23 001Y0000W23A0N4256499475W07843144720+018610300N4255457765W07844386465106750280000511F4003503EA2B0E3
SUSAP KBUF6KPR23-Y RW23 002E +02213+02213LPV 77511

[illegible]

SUSAP KBUF6SRW23 K6PG 0 18018003925 M

CITY AND STATE
BUFFALO, NY

ELEVATION: 727	TDZE: 726
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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	TRAVA	020		TF		FO	2.0	038.2 (027.2T)	010.8	AA 03000	
	BUF	TRAVA	030	IAF	HF	R	FO		235.1 (224.1T)	004.0	AA 03000	
	BULGE	BULGE	010		IF		FB					
	BULGE	WASKI	020	IAF	TF		FB	2.0	153.3 (142.3T)	018.7	AA 03000	
	BULGE	TRAVA	030		TF		FB	1.0	145.0 (134.0T)	008.0	AA 03000	
	ROC	ROC	010		IF		FB					
	ROC	TOPKE	020	IAF	TF		FB	2.0	268.4 (257.4T)	033.0	AA 03000	
	ROC	TRAVA	030		TF		FB	1.0	325.2 (314.2T)	008.0	AA 03000	
		TRAVA	010	FACF	IF		FB				AA 03000	
		BERKI	020	FAF	TF		FB	0.5	235.1 (224.1T)	007.0	AA 02300	
		RW23	030	MAP	TF		FO	0.3	235.0 (224.0T)	004.8	AT 00777	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		235.0 (224.0T)		AA 00926	
	WABUS	050		DF		FO				AA 03000	
	WABUS	060		HM	R	FO		054.8 (043.8T)	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
	ROC	N430704.66	W0774022.06	N4307.078	W07740.368
	BERKI	N430016.49	W0783843.06	N4300.275	W07838.718
	BULGE	N432542.19	W0785536.26	N4325.703	W07855.604
	TOPKE	N425944.15	W0782415.13	N4259.736	W07824.252
	TRAVA	N430518.36	W0783205.08	N4305.306	W07832.085
	WABUS	N424705.81	W0785558.17	N4247.097	W07855.970
	WASKI	N431052.08	W0783956.37	N4310.868	W07839.940
	RW23	N425649.95	W0784314.47	N4256.833	W07843.241

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW23	00726	51

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	AIRPORT NAME: BUFFALO NIAGARA INTL				AMDT: 2A
					DATED: 04/18/2014