

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> BUFFALO NIAGARA INTL	<u>AIRPORT ID</u> KBUF	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 2B	<u>CITY</u> BUFFALO	<u>STATE</u> NY	
<u>AIRPORT ELEVATION</u> 727	<u>TDZE</u> 710	<u>SUPERSEDED</u> RNAV (GPS) RWY 14	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 09/18/2014	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 8 NOVEMBER 2018	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
DAVVK	IAF	WUSOL		TF	FB	1.00	050.35	11.99	3000
WUSOL	IF	JNKAL		TF	FB	1.00	107.89	7.00	2300
JNKAL	FAF	RW14	MAP	TF	FO	0.30	137.59	4.86	
RW14	MAP	1080 MSL		CA			137.59		
1080 MSL		WALES		DF	FO	1.00			3500

MISSED APPROACH

MAP:

LP: RW14
 LNAV: RW14

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3500 DIRECT WALES AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
2. PROFILE STARTS AT WUSOL
3. **FAC:** 137.59 **FAF:** JNKAL **DIST FAF TO MAP:** 4.86 **DIST FAF TO THLD:** 4.86
4. **MIN ALT:** WUSOL 3000, JNKAL 2300
5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:**
6. **MIN GP INCPT:** **GP ALT AT FAF :** **OM:** **MM:** **IM:**
7. **GP ANGLE:** **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:**
8. **MSA FROM:** RW14 3900



PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.

ADDITIONAL FLIGHT DATA:

JNKAL TO RW14: 3.00/53.1.
CHART CYR 518
CHART VDP AT 1.03 NM TO RW14
WAAS CHANNEL #58129
REFERENCE PATH ID: W14A
CHART FAS OBST: 815 TRMSN TWR 425733N/0784551W, 864 WATER TWR 425707N/0784601W.
HOLD SE, RT, 317.82 INBOUND
LTP HAE: 178.3 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	1080	1	370	1080	1	370	1080	1 1/8	370	1080	1 1/8	370			
LNAV MDA	1120	1	410	1120	1	410	1120	1 1/4	410	1120	1 1/4	410			
CIRCLING	1200	1	473	1200	1	473	1200	1 1/2	473	1280	2	553			

CHANGES - REASONS

1. CHANGED IAF FROM WELLA TO DAVVK - WELLA USED ON ANOTHER PROCEDURE IN CANADA.
2. UPDATED LTP/FTP LAT/LONG FROM 428847.0095N/0784426.6500W TO 425647.0155N/0784426.6450W - NEW SURVEY SINCE PRIOR PROCEDURE AMENDMENT.
3. UPDATED LTP/FTP ELLIPSOIDAL HEIGHT FROM 1777 TO 1783 - NEW SURVEY SINCE PRIOR PROCEDURE AMENDMENT.
4. UPDATED CRC REMAINDER FROM 8914BE1E TO 2CB4DD90 - NEW SIAP GENERATED VALUE WITH CHANGE IN FAS DATA.
5. UPDATED LTP AND FPAP ORTHOMETRIC HEIGHT FROM 2128 TO 2135 - NEW SURVEY SINCE PRIOR PROCEDURE AMENDMENT.
6. REMOVED CHART PLANVIEW NOTE "PROCEDURE NA FOR ARRIVALS AT DAVVK ON V2-43 WESTBOUND" - AIRWAY NO LONGER EXIST.
7. REMOVED CHART NOTE "DME/DME RNP-0.3 NA" - IAW 8260.19 PBN REQUIREMENT NOTES.
8. ADDED PBN REQUIREMENTS NOTE "RNP APCH" - IAW 8260.19 PBN REQUIREMENT NOTES.
9. ADDED "20:1 IS CLEAR" ON LINE 7 - ADDED PER 8260.19 GUIDANCE FOR RNAV PROCEDURES.



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<u>COORDINATED WITH:</u>					
A4A <input checked="" type="checkbox"/> ALPA <input checked="" type="checkbox"/> AOPA <input checked="" type="checkbox"/> APA <input checked="" type="checkbox"/> HAI <input type="checkbox"/> NBAA <input checked="" type="checkbox"/> <u>OTHER:</u> ZOB, BUF ATCT, AMGR, NY DOT, ATA					
<u>FLIGHT CHECKED BY</u> JORGE A MALCUN	<i>Digitally signed by</i> ROBERT G HAMILTON Sep 18, 2018		<u>OFFICE</u> FICO	<u>DATE</u> 9/13/18	
<u>DEVELOPED BY</u> DUSTIN DAVIDSON		<i>Digitally signed by</i> DUSTIN DAVIDSON Aug 29, 2018	<u>OFFICE</u> AJV-5422	<u>DATE</u> 08/28/2018	
<u>APPROVED BY</u> JULIE MORGAN	<i>Digitally signed by</i> ROBERT G HAMILTON Sep 18, 2018		<u>OFFICE</u> AJV-5420	<u>DATE</u>	<u>TITLE</u> MANAGER



FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBUF
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	425647.0155N
LTP/FTP LONGITUDE	0784426.6450W
LTP/FTP ELLIPSOIDAL HEIGHT	+01783
FPAP LATITUDE	425553.8000N
FPAP LONGITUDE	0784249.3400W
THRESHOLD CROSSING HEIGHT (TCH)	00053.1
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0664
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	2CB4DD90
ADDITIONAL PATH POINT RECORD INFORMATION	
ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+02135
FPAP ORTHOMETRIC HEIGHT	+02135

