

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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 ID</u> KBUF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> BUFFALO	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 727	<u>TDZE</u> 713	<u>SUPERSEDED</u> ILS OR LOC RWY 32	<u>ORIGINAL/AMENDMENT</u> 2A	<u>DATED</u> 10/11/2018	<u>MAG VAR</u> 11W	<u>EPOCH YEAR</u> 2015
<u>FACILITY</u> I-BNQ	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 2 DECEMBER 2021	<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>
GEE VOR/DME	IAF	KATEC/GEE 33.06 DME	NOPT				278.75	33.06	3500
KATEC/GEE 33.06 DME		ELMMA/I-BNQ 11.93 DME					278.75	2.00 (GEE R-279)	3500
ELMMA/I-BNQ 11.93 DME	IF/IAF	DEPEW/I-BNQ 6.00 DME					317.67	5.93 (I-BNQ)	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: I-BNQ 1.17 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT YULCU AND ON TRACK 234.59 TO SUSKE AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD SE ELMMA, RT, 317.67 INBOUND, 3500 FT. IN LIEU OF PT (IAF), MAX 5000.
3. FAF: 317.67 FAF: DEPEW/I-BNQ 6.00 DME DIST FAF TO MAP: DIST FAF TO THLD: 4.83
4. MIN ALT: ELMMA/I-BNQ 11.93 DME 3500, DEPEW/I-BNQ 6.00 DME 2300, WUDUB/I-BNQ 3.67 DME 1540
5. DIST TO THLD FROM FAF: 4.83 MM: IM: 150 HAT: GS ANT: 1050
6. MIN GS INCPT: 2300 GS ALT AT FAF: DEPEW/I-BNQ 6.00 DME 2300 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: 20:1: TCH: 54.3
8. MSA FROM: GB LOM 090-180 3900, 180-270 3300, 270-090 2800

QUALITY
29
CHECKED

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.
RNP APCH - GPS.

NOTES:

CHART NOTE: PROCEDURE NA FOR ARRIVAL ON GEE VOR/DME AIRWAY RADIAL R-314.

ADDITIONAL FLIGHT DATA:

HOLD W, RT, 090.00 INBOUND.
CHART FAS OBST: 853 ANTENNA (36-065455) 425441N/0784056W.
CHART 926 TOWER 425416N/0784013W.
CHART VDP AT 2.29 DME
DISTANCE VDP TO THLD 1.12 NM.
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 32	913	1/2	200	913	1/2	200	913	1/2	200	913	1/2	200			
S-LOC 32	1120	1/2	407	1120	1/2	407	1120	3/4	407	1120	3/4	407			
CIRCLING	1200	1	473	1200	1	473	1220	1 1/2	493	1340	2	613			

CHANGES - REASONS

1. MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 245 AND ON BUF VOR/DME R-267 TO DAVVK INT/BUF 23.09 DME AND HOLD" TO "CLIMB TO 3000 DIRECT YULCU AND ON TRACK 234.59 TO SUSKE AND HOLD" - BUF VOR/DME BEING DECOMMISSIONED.
2. LOC MAP CHANGED FROM "I-BNQ 1.18 DME" TO "I-BNQ 1.17 DME" - UPDATED DME PER TARGETS CALCULATION.
3. REMOVED ALTERNATE MISSED APPROACH INSTRUCTIONS AND ASSOCIATED OBJECTS IN ADDITIONAL FLIGHT DATA - NEW MISSED APPROACH REQUIRES GPS.
4. REMOVED "DIST TO THLD FROM 222 HAT: 0.53" AND ADDED "DIST TO THLD FROM FAF: 4.83" IN LINE 5 - 8260.19I 8-6-7.E.
5. ADDED "RNP APCH - GPS" TO EQUIPMENT REQUIREMENTS NOTES - NEW MISSED APPROACH REQUIRES GPS.
6. CHANGED "CHART FAS OBST: 853 COMM TWR 425441.07N/0784056.42W" TO "CHART FAS OBST: 853 ANTENNA (36-065455) 425441N/0784056W" IN ADDITIONAL FLIGHT DATA - NEW S-LOC 32 CONTROLLING OBSTACLE.
7. S-ILS 32 DA/HAT CHANGED FROM 935/222 TO 913/200 - NEW OBSTACLE EVALUATION.
8. CHANGED LINE 4 FROM "ELMMA/I-BNQ 11.93 DME 3500, DEPEW/I-BNQ 6.00 DME 2300, WUDUB/I-BNQ 3.68 DME 1540*" TO "ELMMA/I-BNQ 11.93 DME 3500, DEPEW/I-BNQ 6.00 DME 2300, WUDUB/I-BNQ 3.67 DME 1540" - UPDATED DME PER TARGETS CALCULATION, ASTERISK NO LONGER NEEDED.
9. CHANGED CHART NOTE FROM "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON GEE VOR/DME AIRWAY RADIALS 287 CW 314" TO "CHART NOTE: PROCEDURE NA FOR ARRIVAL ON GEE VOR/DME AIRWAY RADIAL R-314" - BUF VOR/DME BEING DECOMMISSIONED.
10. REMOVED "CHART PROFILE NOTE: USE I-BNQ DME WHEN ON THE LOCALIZER COURSE" - BUF VOR/DME BEING DECOMMISSIONED.
11. CHANGED "CHART VDP AT 2.29 DME" TO "CHART VDP AT 2.29 DME" AND REMOVED "*" LOC ONLY" IN ADDITIONAL FLIGHT DATA - ASTERISK NO LONGER NEEDED, 8260.19I 8-6-10.M.
12. CHANGED "HOLD W, RT, 087.00 INBOUND" TO "HOLD W, RT, 090.00 INBOUND" IN ADDITIONAL FLIGHT DATA - NEW MISSED APPROACH CLEARANCE LIMIT, BUF VOR/DME BEING DECOMMISSIONED.
13. ADDED INITIAL STEPDOWN FIX KATEC/GEE 33.06 DME FROM GEE VOR/DME IN TERMINAL ROUTES - PREVENTS THE NEED FOR A PROCEDURE TURN IAW 8260.19I 7-5-2.B(3).
14. REMOVED "CHART IN PLANVIEW: KATEC/GEE 33.06 DME" FROM ADDITIONAL FLIGHT DATA - NOW INCLUDED IN TERMINAL ROUTES.



COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZOB, BUF APP CON, AMGR, NY DOT, ATA

FLIGHT CHECKED BY

JORGE A MALCUN

Digitally signed by

MARK D ADAMS

Sep 20, 2021

OFFICE

FPO

DATE

09/16/2021

DEVELOPED BY

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ANTHONY J CAPPABIANCO

Aug 04, 2021

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AJV-A411

DATE

06/22/2021

APPROVED BY

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Digitally signed by

MARK D ADAMS

Sep 20, 2021

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AJV-A410

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TITLE
MANAGER