

**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> GREATER BINGHAMTON/EDWIN A LINK FIELD	<u>AIRPORT ID</u> KBGM	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> BINGHAMTON	<u>STATE</u> NY
<u>AIRPORT ELEVATION</u> 1636	<u>TDZE</u> 1634	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 02/11/2010	<u>MAG VAR</u> 12W
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 SEPTEMBER 2020	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 1995

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>
GROWS		UYOGA		TF	FB	1.00	312.34	14.10	4400
VILCU		TODAY		TF	FB	1.00	115.29	17.84	4400
TODAY	IAF	SOCOP		TF	FB	1.00	070.14	7.08	3900
UYOGA	IAF	SOCOP		TF	FB	1.00	250.32	7.08	3900
SOCOP	IF	REPIE		TF	FB	1.00	160.23	5.96	3100
REPIE	FAF	RW16	MAP	TF	FO	0.30	160.27	4.44	
RW16	MAP	1884 MSL		CA			160.27		
1884 MSL		WUSOB		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT WUSOB AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
23
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. PROFILE STARTS AT SOCOP

3. FAC: 160.27

FAF: REPIE

DIST FAF TO MAP: 4.44

DIST FAF TO THLD: 4.44

4. MIN ALT: SOCOP 3900, REPIE 3100

5. DIST TO THLD FROM OM:

MM:

IM:

150 HAT:

250 HAT: 0.62

GS ANT:

6. MIN GP INCPT: 3100

GP ALT AT FAF : REPIE 3100

OM:

MM:

IM:

7. GP ANGLE: 3.00

34:1: IS CLEAR

20:1: IS CLEAR

TCH: 52.0

8. MSA FROM: RW16 3700

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21°C OR ABOVE 54°C.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GROWS ON V542 EASTBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT VILCU ON V252 NORTHWEST BOUND.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART VDP AT 1.14 NM TO RW16*
*LNAV ONLY
WAAS CHANNEL #66015
REFERENCE PATH ID: W16A
CHART FAS OBST: 1748 ANTENNA 421305N/0755845W.
HOLD S, RT, 340.41 INBOUND
LTP HAE: 465.5 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LPV DA	1884	2400	250	1884	2400	250	1884	2400	250	1884	2400	250			
LNAV/VNAV DA	1984	3000	350	1984	3000	350	1984	3000	350	1984	3000	350			
LNAV MDA	2060	2400	426	2060	2400	426	2060	4000	426	2060	4000	426			
CIRCLING	2120	1	484	2120	1	484	2120	1 1/2	484	2200	2	564			



AIRPORT	AIRPORT ID	PROCEDURE NAME	ORIGINAL/AMENDMENT	CITY	STATE
GREATER BINGHAMTON/EDWIN A LINK FIELD	KBGM	RNAV (GPS) RWY 16	2	BINGHAMTON	NY

CHANGES - REASONS

1. FEEDER ROUTES FROM GROWS AND VILCU: RNP VALUE CHANGED FROM 2.0 TO 1.0 - RNP VALUE CORRECTED FOR FEEDER SEGMENT PER UPDATED TERPS CRITERIA.
2. GROWS FEEDER: COURSE AND DISTANCE CHANGED FROM 305.41/15.20 TO 312.34/14.10 - UYOGA MOVED 2.08 NM NORTHEAST.
3. VILCU FEEDER: COURSE AND DISTANCE CHANGED FROM 110.90/19.36 TO 115.29/17.84 - TODOY MOVED 2.08 NM SOUTHWEST.
4. TODOY INITIAL: COURSE AND DISTANCE CHANGED FROM 070.17/5.00 TO 070.14/7.08 - TO SUPPORT ATC VECTORS AND MINIMUM LEG LENGTH.
5. UYOGA INITIAL: COURSE AND DISTANCE CHANGED FROM 250.29/5.00 TO 250.32/7.08 - TO SUPPORT ATC VECTORS AND MINIMUM LEG LENGTH.
6. CORRECTED RNP VALUE FROM 0.5 TO 1.0 ON THE INTERMEDIATE SEGMENT - RNP VALUE CORRECTED FOR INTERMEDIATE SEGMENT PER UPDATED TERPS CRITERIA.
7. SOCOPI INTERMEDIATE: DISTANCE CHANGED FROM 6.02 NM TO 5.96 NM - FAF MOVED TO MATCH ILS TCH.
8. FINAL: DISTANCE CHANGED FROM 4.38 NM TO 4.44 NM - FAF MOVED TO MATCH ILS TCH.
9. TERMINAL ROUTES, RW16 (MAP) TO WUSOB CHANGED TO RW16 (MAP) TO 1884 MSL - CA LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2.
10. TERMINAL ROUTE ADDED, 1884 MSL TO WUSOB - DF LEG ADDED TO MISSED APPROACH INSTRUCTIONS PER 8260.58A 3-5-2.
11. PROFILE LINE 3, FAC CHANGED FROM 160.27 TO 160.28, DIST FAF TO MAP AND DIST FAF TO THLD CHANGED FROM 4.38 TO 4.44 - FAF MOVED TO MATCH ILS TCH, REPIE MOVED 320 FT NORTHWEST.
12. PROFILE LINE 7, 34:1 CHANGED TO CLEAR AND 20:1 IS CLEAR ADDED, TCH CHANGED FROM 52.7 TO 52.0 - 34:1 PENETRATION CLEARED, IAW 8260.19H PARA 8-6-7G(3), TO ALIGN WITH THE ILS OR LOC RWY 16 PROCEDURE.
13. PROFILE LINE 8, MSA ALT CHANGED FROM 3600 TO 3700 - NEW CONTROLLING OBSTACLE.
14. NOTE DELETED: DME/DME RNP-0.3 NA - NOTE REPLACED WITH NEW PBN EQUIPMENT REQUIREMENT NOTE.
15. PBN REQUIREMENTS NOTE ADDED: RNP APCH - PER MEMO 257.
16. FAHRENHEIT TEMPS DELETED FROM NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -18C (0F) OR ABOVE 45C (113F) - PER 8260.19H 8-6-9S.
17. CRITICAL LOW BARO-VNAV TEMPERATURE CHANGED FROM -18C TO -21C - 5 YEAR TEMPERATURE HISTORY USED.
18. CRITICAL HIGH BARO-VNAV TEMPERATURE CHANGED FROM 45C TO 54C - PER UPDATED TARGETS EVALUATION.
19. NOTE DELETED: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ITHACA ALTIMETER SETTING AND INCREASE ALL DA 138 FT AND ALL MDA 140 FT AND INCREASE LNAV/VNAV ALL CATS VISIBILITY 1/2 MILE AND LNAV AND CIRCLING CATS C AND D VISIBILITY 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
20. NOTE DELETED: BARO-VNAV NA WHEN USING ITHACA ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
21. NOTE DELETED: VDP NA WITH ITHACA ALTIMETER SETTING - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
22. NOTE DELETED: FOR INOPERATIVE MALSR WHEN USING ITHACA ALTIMETER SETTING INCREASE LPV ALL CATS VISIBILITY 1/2 MILE, LNAV CATS A AND B VISIBILITY 1/4 MILE - PRIMARY ALTIMETER SOURCE LOCAL, ON-AIRPORT AND ON WMSCR.
23. PROFILE NOTE CHANGED FROM 'VGSI AND RNAV GLIDEPATH NOT COINCIDENT' TO 'VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})' - IAW 8260.19H PARA 8-6-9M(2).
24. NOTE DELETED: WHEN VGSI INOP, CIRCLING RWY 34 NA AT NIGHT - NEW EVALUATION ALONG WITH A NEW SURVEY FOUND NO VISUAL SURFACE PENETRATIONS.
25. NOTE CHANGED FROM 'FOR INOPERATIVE MALSR INCREASE LNAV CATS A, C AND D VISIBILITY 1/4 MILE' TO 'FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500' - IAW 8260.19H PARA 8-6-11O(3)(D). RVR ADDED WITH NEW AIRPORT SURVEY.
26. PLANVIEW NOTE CHANGED FROM 'PROCEDURE NA FOR ARRIVALS AT VILCU VIA V252 NORTHWEST BOUND AND V428 SOUTHWEST BOUND AND ARRIVAL AT GROWS VIA V542 EASTBOUND, AND V153 SOUTHBOUND' TO 'PROCEDURE NA FOR ARRIVALS AT VILCU ON V252 NORTHWEST BOUND' AND 'PROCEDURE NA FOR ARRIVALS AT GROWS ON V542 EASTBOUND' - UPDATED EVALUATION.
27. NOTE DELETED: VISIBILITY REDUCTION BY HELICOPTERS NA - OUTDATED NOTE, 34:1 AND 20:1 PENETRATIONS CLEAR.
28. ADDITIONAL FLIGHT DATA, FAS OBST CHANGED FROM 1799 TREE 421312N/0755842W TO 1748 ANTENNA 421305N/0755845W - UPDATED FAS OBSTACLE WITH NEW TARGETS EVALUATION.
29. ADDITIONAL FLIGHT DATA, NOTE ADDED: CHART CIRCLING ICON - NEW CIRCLING CRITERIA APPLIED.
30. ADDITIONAL FLIGHT DATA, NOTE CHANGED FROM 'CHART VDP AT 1.15 NM TO RW16' TO 'CHART VDP AT 1.14 NM TO RW16' - UPDATED TARGETS EVALUATION.
31. LPV MINIMA CHANGED FROM 3/4 VIS TO RVR 2400 - RVR ADDED WITH NEW AIRPORT SURVEY.
32. LNAV/VNAV MINIMA CHANGED FROM 3/4 VIS TO RVR 3000 - RVR ADDED WITH NEW AIRPORT SURVEY.
33. LNAV CATS A-C MINIMA CHANGED FROM 3/4 VIS AND CAT D FROM 1 SM TO CATS A-B RVR 2400 RVR AND CATS C-D 4000 RVR - RVR ADDED WITH NEW AIRPORT SURVEY.
34. FAS DATA: LTP CHANGED FROM 421305.0795N/0755909.1285W TO 421305.0855N/0755909.1335W - NEW VG SURVEY.
35. FAS DATA: FPAP CHANGED FROM 421208.7700N/0755822.3700W TO 421149.2365N/0755806.1625W - NEW TARGETS EVALUATION.
36. FAS DATA: COURSE WIDTH AT THRESHOLD CHANGE FROM 94.25 TO 106.75 - NEW TARGETS EVALUATION.
37. FAS DATA: 648M LENGTH OFFSET ADDED - NEW TARGETS EVALUATION
38. FAS DATA: CRC REMAINDER CHANGED FROM B14FOA37 TO 32F21D8B.

08/03/20. THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 07/30/20.
8260-3, PAGE 2 LINE 6, CHANGED GP ALT AT FAF FROM "REPIE" TO "REPIE 3100"



AIRPORT

GREATER BINGHAMTON/EDWIN A LINK
FIELD

AIRPORT ID

KBGM

PROCEDURE NAME

RNAV (GPS) RWY 16

ORIGINAL/AMENDMENT

2

CITY

BINGHAMTON

STATE

NY

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZNY, ZBW, BGM TOWER, BGM APP CON, AMGR

FLIGHT CHECKED BY

STEPHEN CHRISTOPHER BAUER

Digitally signed by

DAVID TEFFETELLER

Aug 03, 2020

OFFICE

FIOG

DATE

07/29/2020

DEVELOPED BY

ANDREA CHANEY

Digitally signed by

DAVID TEFFETELLER

Aug 03, 2020

OFFICE

AJV-A433

DATE

11/18/2019

APPROVED BY

GEORGE DAVIS

Digitally signed by

DAVID TEFFETELLER

Aug 03, 2020

OFFICE

AJV-A430

DATE

TITLE

MANAGER



AIRPORTGREATER BINGHAMTON/EDWIN A LINK
FIELDAIRPORT ID

KBGM

PROCEDURE NAME

RNAV (GPS) RWY 16

ORIGINAL/AMENDMENT

2

CITY

BINGHAMTON

STATE

NY

FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE

0

SBAS SERVICE PROVIDER IDENTIFIER

0

AIRPORT IDENTIFIER

KBGM

RUNWAY

RW16

APPROACH PERFORMANCE DESIGNATOR

0

ROUTE INDICATOR

REFERENCE PATH DATA SELECTOR

0

REFERENCE PATH IDENTIFIER (APPROACH ID)

W16A

LTP/FTP LATITUDE

421305.0855N

LTP/FTP LONGITUDE

0755909.1335W

LTP/FTP ELLIPSOIDAL HEIGHT

+04655

FPAP LATITUDE

421149.2365N

FPAP LONGITUDE

0755806.1625W

THRESHOLD CROSSING HEIGHT (TCH)

00052.0

TCH UNITS SELECTOR (METERS OR FEET USED)

F

GLIDEPATH ANGLE (GPA)

03.00

COURSE WIDTH AT THRESHOLD

106.75

LENGTH OFFSET

0648

HORIZONTAL ALERT LIMIT (HAL)

40.0

VERTICAL ALERT LIMIT (VAL)

50.0

CRC REMAINDER

32F21D8B

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE

K6

LTP ORTHOMETRIC HEIGHT

+04980

FPAP ORTHOMETRIC HEIGHT

+04980

