

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> LAGUARDIA	<u>AIRPORT ID</u> KLGA	<u>PROCEDURE NAME</u> RNAV (GPS) Z RWY 31	<u>ORIGINAL/AMENDMENT</u> 1F	<u>CITY</u> NEW YORK	<u>STATE</u> NY	
<u>AIRPORT ELEVATION</u> 21	<u>TDZE</u> 7	<u>SUPERSEDED</u> RNAV (GPS) RWY 31	<u>ORIGINAL/AMENDMENT</u> 1E	<u>DATED</u> 09/13/2018	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 28 FEBRUARY 2019	<u>REQUIRED EFFECTIVE DATE</u> 02/28/2019	<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>
CHALN	IF	ZARID		TF	FB	1.00	314.27	6.00	1700
ZARID	FAF	RW31	MAP	TF	FO	0.30	314.20	4.99	
RW31	MAP	700 MSL		CA			314.20		700
700 MSL		CEPOG		DF	FO	1.00			2000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW31

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 220 KIAS UNTIL CEPOG) CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT CEPOG AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- PROFILE STARTS AT CHALN
- FAC: 314.20 FAF: ZARID DIST FAF TO MAP: 4.99 DIST FAF TO THLD: 4.99
- MIN ALT: CHALN 2000, ZARID 1700
- DIST TO THLD FROM OM: MM: IM: 150 HAT: 323 HAT: 0.83 GS ANT:
- MIN GP INCPT: 1700 GP ALT AT FAF : ZARID 1700 OM: MM: IM:
- GP ANGLE: 3.10 34:1: IS NOT CLEAR 20:1: IS NOT CLEAR TCH: 50.0
- MSA FROM: RW31 2900



PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED.

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12°C OR ABOVE 48°C.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART NOTE: CIRCLING NA FOR CAT D NW OF RWY 4 AND SW OF RWY 13.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.

WAAS CHANNEL #48928

REFERENCE PATH ID: W31A

CHART FAS OBST: 380 BLDG 404410N/0734828W.

HOLD SW, RT, 044.00 INBOUND

LTP HAE: -29.4 M

MINIMUMS:**TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT****ALTERNATE:** NA ☐ STANDARD

<u>CATEGORY:</u>	A			B			C			D			E		
<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>
LPV DA	330	5000	323	330	5000	323	330	5000	323	330	5000	323			
LNAV/VNAV DA	618	1 3/4	611	618	1 3/4	611	618	1 3/4	611	618	1 3/4	611			
LNAV MDA	640	5500	633	640	5500	633	640	1 3/4	633	640	1 3/4	633			
CIRCLING	680	1	659	680	1	659	1080	3	1059	1080	3	1059			



CHANGES - REASONS

1. CHANGED PROCEDURE NAME FROM RNAV (GPS) RWY 31 TO RNAV (GPS) Z RWY 31 - ADDITIONAL RNAV APPROACH CREATED TO RWY 31.
2. CHANGED CHART NOTE FROM: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C (13°F) OR ABOVE 33°C (91°F) TO: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12°C OR ABOVE 48°C - NEW TEMPERATURE DATA, CURRENT NOTATION PER 8260.19H 8-7-1C.
3. CHANGED CIRCLING MDA/HAA CAT A/B FROM 640/619 TO 680/659, CAT C FROM 640/619 TO 1080/1059, CAT D FROM 700/679 TO 1080/1059 - NEW CONTROLLING OBSTACLES, INCORPORATING P-NOTAM 8/4521.
4. CHANGED CIRCLING VISIBILITY CAT C FROM 1 3/4 SM TO 3 SM, CAT D FROM 2 1/4 SM TO 3 SM - 8260.3D TABLE 3-3-7.
5. REMOVED CHART NOTE: DME/DME RNP -0.3 NA AND ADDED EQUIPMENT REQUIREMENTS NOTE: RNP APCH - CURRENT NOTATION PER 8260.19H.
6. REMOVED CHART NOTE: RADAR REQUIRED - INCORPORATING P-NOTAM 8/4521.
7. REMOVED CHART PLANVIEW NOTE AT CEPOG: LIMIT MISSED APPROACH TO 220 KIAS AND CHANGED MISSED APPROACH INSTRUCTIONS FROM: CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT CEPOG AND HOLD TO: (DO NOT EXCEED 220 KIAS UNTIL CEPOG) CLIMB TO 700 THEN CLIMBING RIGHT TURN TO 2000 DIRECT CEPOG AND HOLD - SPEED RESTRICTION NOW IN MISSED APPROACH INSTRUCTIONS, 8260.19H 4-6-10G.
8. CHANGED MSA FROM 3000 TO 2900 - NEW CONTROLLING OBSTACLE.
9. CHANGED THRE 7 TO TDZE 7 - IAW AFS-400 MEMO DATED 2/21/2014.
10. ALTERNATE MINIMUMS CHANGED FROM STANDARD EXCEPT CAT D 800-2 1/4 TO STANDARD EXCEPT CAT C AND D 1100-3 - 8260.3D 3-4-1.
11. ADDED CHART NOTE: CIRCLING NA FOR CAT D NW OF RWY 4 AND SW OF RWY 13 - NEW OBSTACLE (36-146586) 949 BUILDING.
12. CHANGED LNAV/VNAV DA/HAT ALL CATS FROM 567/560 TO 618/611 - NEW CONTROLLING OBSTACLE.
13. CHANGED LNAV/VNAV VISIBILITY ALL CATS FROM 1 7/8 SM TO 1 3/4 SM - 8260.3D TABLE 3-3-1.
14. FPAP LATITUDE/LONGITUDE CHANGED FROM 404706.8800N/0735304.9200W TO 404706.8740N/0735304.9240W - TARGETS DERIVED.
15. CHART FAS OBSTACLE CHANGED FROM 380 BLDG 404410N/0734828W, 214 BLD 404526N/0735003W TO 380 BLDG 404410N/0734828W - NEW CONTROLLING OBSTACLE.
16. CRC REMAINDER CHANGED FROM 6FF3EB4E TO 3BA5B038 - ROUTE INDICATOR Z ADDED, FPAP LAT/LONG CHANGED.

COORDINATED WITH:

A4A☒ALPA☒AOPA☒APA☒HAI☐NBAA☒OTHER: ZNY, N90, LGA ATCT, APT MGR

FLIGHT CHECKED BY

PENDING

Digitally signed by
ROBERT G HAMILTON
Dec 11, 2018

OFFICE

DATE

DEVELOPED BY

DAVID DANNER (JOHN BURCH)

Digitally signed by
ROBERT G HAMILTON
Dec 11, 2018

OFFICE

AJV-5421

DATE

09/27/2018

APPROVED BY

JULIE MORGAN

Digitally signed by
ROBERT G HAMILTON
Dec 11, 2018

OFFICE

AJV-5420

DATE

TITLE
MANAGER



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KLGA
RUNWAY	RW31
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	404619.4570N
LTP/FTP LONGITUDE	0735125.6015W
LTP/FTP ELLIPSOIDAL HEIGHT	-00294
FPAP LATITUDE	404706.8740N
FPAP LONGITUDE	0735304.9240W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.10
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0616
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
 CRC REMAINDER	 3BA5B038

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00020
FPAP ORTHOMETRIC HEIGHT	+00020