

**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 ID</u> KLGA	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 22	<u>ORIGINAL/AMENDMENT</u> ORIG	<u>CITY</u> NEW YORK	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 21	<u>TDZE</u> 12	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u> NONE	<u>DATED</u>	<u>MAG VAR</u> 12W	<u>EPOCH YEAR</u> 1980
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<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>
JOTRE	IAF	DANPS		TF	FB	1.00	144.43	4.90	2500
DONYB	IAF	DANPS		TF	FB	1.00	234.52	4.72	2500
EYROD	IAF	DANPS		TF	FB	1.00	324.53	4.90	2500
DANPS	IF	KUZZZ		TF	FB	1.00	234.48	3.30	1500
KUZZZ		DAZOO		TF	FB	1.00	236.79	1.41	1100
DAZOO	FAF	EESON	MAP	TF	FO	0.30	238.85	3.26	
EESON	MAP	500 MSL		CA			238.85		500
500 MSL		PROUD		DF	FO	1.00			3000

**MISSED APPROACH**

**MAP:**

LNAV/VNAV: DA  
LNAV: EESON

**MISSED APPROACH INSTRUCTIONS:**

CLIMB TO 500 THEN CLIMBING LEFT TURN TO 3000 DIRECT PROUD AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.

**ALTERNATE MISSED APPROACH INSTRUCTIONS:**



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT DANPS

3. FAF: 238.85FAF: DAZOODIST FAF TO MAP: 3.26DIST FAF TO THLD: 3.26

4. MIN ALT: DANPS 2500, KUZZZ 1500, DAZOO 1100

5. DIST TO THLD FROM OM:MM:IM:150 HAT:369 HAT: 1.00GS ANT:

6. MIN GP INCPT: 1100GP ALT AT FAF : DAZOO 1100OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 50.0

8. MSA FROM: EESON 2900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: CIRCLING NA SW OF RWY 13-31.  
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -11°C OR ABOVE 54°C.  
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).  
CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV/VNAV ALL CATS VISIBILITY TO RVR 5500; INCREASE LNAV CATS C/D VISIBILITY TO 1 3/4 SM.  
CHART SPEED ICON IN PLANVIEW AT JOTRE: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT DONYB: MAX 210 KIAS.  
CHART SPEED ICON IN PLANVIEW AT EYROD: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 14.68 DEGREES.  
FAC CROSSES RWY C/L 3000 FEET FROM THLD.  
HOLD SW, LT, 045.00 INBOUND.  
CHART FAS OBST: 383 BRIDGE (36-000233) 404817N/0734954W.  
CHART VDP AT 1.77 NM TO EESON.  
CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/4

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
LNAV/VNAV DA	381	3500	369	381	3500	369	381	3500	369	381	3500	369			
LNAV MDA	640	2400	628	640	2400	628	640	1 3/8	628	640	1 3/8	628			
CIRCLING	640	1	619	640	1	619	700	2	679	760	2 1/4	739			

CHANGES - REASONS

ORIGINAL PROCEDURE



AIRPORT ID  
KLGA

PROCEDURE NAME  
RNAV (GPS) X RWY 22

ORIGINAL/AMENDMENT  
ORIG

CITY  
NEW YORK

STATE  
NY

COORDINATED WITH:

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

FLIGHT CHECKED BY

BOB S PRESSLER

*Digitally signed by*  
**DONALD H LANIER**  
Aug 04, 2021

OFFICE

FICO

DATE

08/02/2021

DEVELOPED BY

DONALD H. LANIER (PARNELL PRASSADA)

*Digitally signed by*  
**DONALD H LANIER**

OFFICE

AJV-A431

DATE

APPROVED BY

LONNIE EVERHART

*Digitally signed by*  
**DONALD H LANIER**

Aug 04, 2021

OFFICE

AJV-A430

DATE

TITLE  
MANAGER

Aug 04, 2021

FEDERAL AVIATION ADMINISTRATION  
FLIGHT STANDARDS SERVICE  
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT ID</u> KLGA	<u>PROCEDURE NAME</u> RNAV (GPS) X RWY 22	<u>AMDT NO.</u> ORIG	<u>CITY</u> NEW YORK	<u>STATE</u> NY	<u>AIRPORT ELEVATION</u> 21	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM  
JOTRE

TO  
DANPS

<u>RNP</u>	<u>DISTANCE</u> 4.90	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (36-002787)	405550.00N/0735145.00W		594	250	50	4D	1000				AT900	2500
TERRAIN	405730.00N/0734745.00W		246 (200)								AS1500	1700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INITIAL

FROM  
DONYB

TO  
DANPS

<u>RNP</u>	<u>DISTANCE</u> 4.72	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>							
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
AAO	405806.00N/0734157.00W		325	164	98	4E	1000				AT1100	2500
TERRAIN	405727.00N/0734221.00W		108 (100)								AS1500	1600

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INITIAL

FROM

EYROD

TO

DANPS

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.90											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	405009.00N/0734030.00W		483	164	98	4E	1000				AT1000	2500
TERRAIN	405009.00N/0734030.00W		282 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

DANPS

TO

KUZZZ

<u>RNP</u>	<u>DISTANCE</u> 3.30	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
TOWER (36-000263)	405135.00N/0734707.00W		549	20	50	1D	500				AT451	1500
TERRAIN	405124.00N/0734857.00W		154 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM  
KUZZZ

TO  
DAZOO

RNP	DISTANCE 1.41	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	405124.00N/0734857.00W		355	250	50	4D	500				AC98	1000
TERRAIN	405042.00N/0734957.00W		59 (100)								AS1000	1100

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV/VNAV

FROM  
DAZOO

TO  
RW22

RNP	DISTANCE 3.26	PAT	MAP DA	HAT 369			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (36-020550)	404740.44N/0735245.10W		168	20	3	1A	161				MA52	381

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: LNAV

FROM  
DAZOO

TO  
EESON

RNP	DISTANCE 3.26	PAT	MAP EESON	HAT 628	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
BRIDGE (36-000233)	404817.43N/0734954.09W		383	20	3	1A	250					640

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : LNAV/VNAV

FROM  
DA

TO  
PROUD

RNP	DISTANCE	PAT	MAP	HAT 220	HMAS							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
BUILDING (36-165494)	404501.00N/0735609.05W		778	20	3	1A		ASC				3000
BUILDING (36-160119)	404126.40N/0735855.90W		1048	250	50	4D	1000					2100
TERRAIN	403927.00N/0735915.00W		216 (200)								AS1500	1700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LNAV

FROM  
EESON

TO  
PROUD

RNP	DISTANCE	PAT	MAP	HAT			HMAS 540					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
BUILDING (36-160119)	404126.40N/0735855.90W		1048	250	50	4D	1000					2100
TERRAIN	403927.00N/0735915.00W		216 (200)								AS1500	1700

COMPUTATIONS

ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
BUILDING (36-030253)	404536.41N/0735003.70W	1.30	619	226	250	50	4D	300		SI	640
CATEGORY B											
BUILDING (36-025467)	404525.89N/0734926.42W	1.81	619	316	20	3	1A	300		SI	640
CATEGORY C											
BRIDGE (36-000605)	404756.98N/0734940.89W	2.84	679	383	20	3	1A	300			700
CATEGORY D											
BUILDING (36-150638)	404835.63N/0735657.23W	3.70	739	398	250	50	4D	300		AC50	760

CIRCLING REMARKS:





MSA

CENTER  
EESON

RADIUS  
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	BUILDING (36-020633)	404246.75N/0740047.27W	247	07.8	1806	20	3	1A	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

NO STEPDOWN FIX WAS CREATED BECAUSE THE MINIMUMS WOULD HAVE REMAINED THE SAME.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KLGA	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLGA	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW4 - TDZ, MALSR, HIRL, C/LINE, PAPI-4R		PIR-G	APPROACH, ROLL OUT
RW13 - TDZ, MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, ROLL OUT
RW22 - TDZ, ALSF-1, HIRL, C/LINE, PAPI-4R		PIR-G	APPROACH, ROLL OUT
RW31 - HIRL, REIL, C/LINE, PAPI-4R		PIR-G	APPROACH, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 11.5	<u>TCH</u> 50.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 67.3
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE	

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -11C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -11C	<u>APT ISA</u> +14.96C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2016-2020).  
CRITICAL LOW TEMPERATURE BASED ON ACT.  
DESCENT RATE (FPM): STANDARD TEMP 955 HIGH TEMP 1260.

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



and/or  
**5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS**

<b><u>PENETRATIONS REMARKS:</u></b>

**PART C: GENERAL REMARKS:**  
PRECIPITOUS TERRAIN EVALUATION COMPLETED.  
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.

<div>AIRPORT ID</div> <div>KLGA</div>	<div>PROCEDURE NAME</div> <div>RNAV (GPS) X RWY 22</div>	<div>AMDT NO.</div> <div>ORIG</div>	<div>CITY</div> <div>NEW YORK</div>	<div>STATE</div> <div>NY</div>	<div>AIRPORT ELEVATION</div> <div>21</div>	<div>FACILITY</div> <div>RNAV</div>
PART D: AIRSPACE						
DOCKET #						
ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE						
DISTANCE FROM	MAP	TO 1000FT POINT	3.26			
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	2.13			
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	226.85			
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100			
DISTANCE FROM	MAP	TO 1500FT POINT	6.37			
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00			
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	224.48			
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200			
THRESHOLD COORDINATES (IF STR-IN)	404707.57N/0735214.42W					
ARP COORDINATES	404638.10N/0735221.40W					
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 31 DISTANCE 0.77 NM					
FAF COORDINATES	404926.34N/0734914.18W					
FIX NAME COORDINATES						
REMARKS						

QUALITY  
22  
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

Electronic Version

Page 9 of 10

PART E: PREPARED BY

<u>NAME</u> DONALD H. LANIER (PARNELL PRASSADA)	<u>OFFICE</u> AJV-A431	<u>DATE</u>	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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