

**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> KFRG	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 19	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> FARMINGDALE	<u>STATE</u> NY		
<u>AIRPORT ELEVATION</u> 80	<u>TDZE</u> 78	<u>SUPERSEDED</u> RNAV (GPS) RWY 19	<u>ORIGINAL/AMENDMENT</u> 2E	<u>DATED</u> 03/28/2019	<u>MAG VAR</u> 14W	<u>EPOCH YEAR</u> 2000
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 12 AUGUST 2021	<u>REQUIRED EFFECTIVE DATE</u> 08/12/2021	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES **THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 21-15**

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
ZOSAB	IAF	DEBYE		TF	FB	1.00	271.86	6.90	2000
BLINZ	IAF	DEBYE		TF	FB	1.00	103.08	6.01	2000
DEBYE	IF	MOIRE		TF	FB	1.00	193.16	6.14	1500
MOIRE	FAF	WULOP/2.00 NM TO RW19		TF	FB	0.30	193.18	2.06	
WULOP/2.00 NM TO RW19		RW19	MAP	TF	FO	0.30	193.18	2.00	
RW19	MAP	2000 MSL		CA			193.18		2000
2000 MSL		DPK VOR/DME		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW19

MISSED APPROACH INSTRUCTIONS:

(DO NOT EXCEED 210 KIAS UNTIL DPK VOR/DME) CLIMB TO 2000 THEN CLIMBING LEFT TURN TO 3000 DIRECT DPK VOR/DME 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 DEBYE

3. **FAC:** 193.18 **FAF:** MOIRE **DIST FAF TO MAP:** 4.06 **DIST FAF TO THLD:** 4.06

4. **MIN ALT:** DEBYE 2000, MOIRE 1500, WULOP/2.00 NM TO RW19 800

5. **DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **250 HAT:** 0.60 **GS ANT:**

6. **MIN GP INCPT:** 1500 **GP ALT AT FAF:** MOIRE 1500 **OM:** **MM:** **IM:**

7. **GP ANGLE:** 3.20 **34:1:** IS NOT CLEAR **20:1:** IS CLEAR **TCH:** 41.4

8. **MSA FROM:** RW19 2900

PBN REQUIREMENTS NOTE:

RNP APCH - GPS

NOTES:

CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -12°C OR ABOVE 54°C.
 CHART SPEED ICON IN PLANVIEW AT DEBYE: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 200.00 INBOUND.
 CHART FAS OBST: 279 TRANSMISSION LINE (36-021636) 404540N/0732544W.
 CHART 579 TOWER 404807N/0732601W, 310 TREE 404630N/0732606W.
 CHART VDP AT 1.24 NM TO RW19.
 WAAS CHANNEL # 81924
 REFERENCE PATH ID: W19A
 CHART CIRCLING ICON.
 LTP HAE: -6.6 M

MINIMUMS:

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

ALTERNATE: NA STANDARD - CAT C 800-2 1/4, CAT D 1000-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
	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	328	3/4	250	328	3/4	250	328	3/4	250	328	3/4	250			
LNAV/VNAV DA	504	1 1/4	426	504	1 1/4	426	504	1 1/4	426	504	1 1/4	426			
LNAV MDA	520	1	442	520	1	442	520	1 3/8	442	520	1 3/8	442			
CIRCLING	640	1	560	720	1	640	860	2 1/4	780	1000	3	920			



CHANGES - REASONS

1. REMOVED LGA TO BLINZ FEEDER AND PROCEDURE ENTRY NA NOTE - NOT USED PER N90.
2. ADDED FINAL STEPDOWN FIX (WULOP/2.00 NM TO RW19) - PROVIDE LOWER MINIMUMS AFTER APPLYING 7:1 MITIGATION.
3. MOIRE (PFAF) MOVED 1472 FT NORTH - RW19 MOVED 412 FT NORTH AND TCH CHANGED.
4. TCH CHANGED FROM 60 TO 41.4 - ALIGN WITH VGSI.
5. INTERMEDIATE COURSE CHANGED FROM 193.17 TO 193.16 - PFAF MOVED.
6. INTERMEDIATE DISTANCE CHANGED FROM 6.38 TO 6.14 - PFAF MOVED.
7. FINAL DISTANCE CHANGED FROM 4.01 TO 4.06 - RW19 MOVED AND PFAF MOVED.
8. FINAL COURSE CHANGED FROM 193.17 TO 193.18 - THRESHOLD AND PFAF MOVED.
9. ADDED 210 AIRSPEED RESTRICTION UNTIL DPK ON MISSED APPROACH - ATC TRAFFIC CONSTRAINTS.
10. ADDED CLIMB IN HOLD TO MISSED APPROACH - AIRCRAFT DID NOT REACH 3000 AT CLEARANCE LIMIT.
11. 20:1 NOTE CHANGED FROM "NOT CLEAR" TO "CLEAR" - RWY 19 THRESHOLD MOVED CLEARING PREVIOUS PENS.
12. TCH CHANGED FROM 60 TO 41.4 - ALIGN WITH VGSI.
13. ADDED PBN REQUIREMENTS NOTE - CORRECTION NOT COMPLETED WHEN REMOVING DME/DME RNP-0.3 NOTE.
14. REMOVED RADAR REQUIRED FOR ENTRY NOTE - RADAR NO LONGER REQUIRED ON RNAV PROCEDURES FOR STAND ALONE FIXES.
15. CHANGED MIN TEMP ON UNCOMPENSATED BARO-VNAV NOTE FROM -15C TO -12C - UTILIZED LATEST 5 YEAR HISTORICAL DATA.
16. ADDED 210 MAX AIRSPEED RESTRICTION ICON AT DEBYE - MAINTAIN INITIAL SEGMENT DISTANCES PER N90 REQUIREMENT.
17. ADDED VDP - 20:1 PENS ELIMINATED.
18. DIST TO THLD CHANGED FROM 263 HAT/0.61 NM TO 250 HAT/0.60 NM - LPV MINS LOWERED.
19. REMOVED VGSI NOT COINCIDENT NOTE - TCH CHANGED TO MATCH VGSI.
20. REMOVED BACKUP ALTIMETER SETTING NOTE - MOVED TO 8260-9 TO ISSUE BY NOTAM.
21. CHARTED CIRCLING ICON - APPLIED NEW CIRCLING CRITERIA.
22. UPDATED HELICOPTER VISIBILITY REDUCTION NOTE FORMAT AND VALUES: CHANGED 1 SM TO 3/4 SM - APPLIED NEW FORMATED NOTE AND 20:1 PENS NO LONGER EXIST.
23. LPV DA/HAT LOWERED FROM 348/267 TO 328/250 - CONTROLLING OBSTACLE CHANGED.
24. LPV ALL CATS VIS LOWERED FROM 1 TO 3/4 - LPV DA LOWERED.
25. LNAV/VNAV DA/HAT LOWERED FROM 560/479 TO 504/426 - CONTROLLING OBSTACLE CHANGED.
26. LNAV/VNAV ALL CATS VIS LOWERED FROM 1 1/2 TO 1 1/4 - LNAV/VNAV DA LOWERED.
27. ADDED LPV AND LNAV/VNAV CAT D MINS - CAT D WITH 3.2 VDA IS NOW ALLOWED BY CRITERIA.
28. CIRCLING MDA/HAA UPDATED: CAT A CHANGED FROM 560/480 TO 640/560; CAT B CHANGED FROM 600/520 TO 720/640; CAT C CHANGED FROM 720/640 TO 860/780; AND CAT D CHANGED FROM 720/640 TO 1000/920 - CIRCLING OBSTACLE RADII EVAL INCREASED USING NEW CIRCLING CRITERIA.
29. CIRCLING CATS C/D VIS CHANGED: CAT C FROM 1 3/4 TO 2 1/4 AND CAT D FROM 2 TO 3 - CORRESPOND WITH MINIMUMS CHANGE.
30. UPDATED ALTERNATE MINIMUMS - MATCH CIRCLING CATS C/D MDA CHANGE.
31. CRC REMAINDER CHANGED FROM 8D78DD7D TO E49752A9 - RWY MOVED CHANGING LTP, FPAP, AND TCH IN FAS DATA.
32. RWY 19 MOVED 412 FT NORTH CHANGING COORDINATES, ELEVATIONS, AND ELIMINATING DISPLACED THRESHOLD - AIRPORT CONSTRUCTION.
33. APT ELEV CHANGED FROM 81 TO 80 - AIRPORT CONSTRUCTION.
34. DELETED LNAV/VNAV FAS OBSTACLE - NO LONGER REQUIRED.
35. CHANGED LNAV FAS OBSTACLE FROM 182 TANK 404204N/0732413W TO 279 TRANSMISSION_LINE 404540N/0732544W - OBSTACLE EVAL.
36. UPDATED ALTERNATE MINIMUMS FROM CAT D 700-2 TO CAT C 800-2 1/4, CAT D 1000-3 - MATCH CIRCLING CATS C/D MDA CHANGE.

6/24/2021 THIS IS A CORRECTED COPY OF THE FORM DEVELOPED ON 2/25/2021
CIRCLING CAT C VISIBILITY CORRECTED FROM 2 1/2 TO 2 1/4.

COORDINATED WITH:

~~AAA~~ ~~ALPA~~ ~~AOPA~~ ~~APA~~ ~~HAI~~ ~~NBAA~~ **OTHER:** ZNY, NEW YORK APP CON, N90, KFRG ATCT, AMGR

FLIGHT CHECKED BY	<i>Digitally signed by</i>	OFFICE	DATE
ROBERT STEPHEN PRESSLER	DONALD H LANIER	FIOG	06/22/2021
	Jun 24, 2021		

DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE
KELLY DEAN	KELLY D DEAN	AJV-A431	02/25/2021
	Jun 24, 2021		

APPROVED BY	<i>Digitally signed by</i>	OFFICE	DATE
LONNIE EVERHART	DONALD H LANIER	AJV-A430	
	Jun 24, 2021		

TITLE
MANAGER

QUALITY
18
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KFRG
RUNWAY	RW19
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W19A
LTP/FTP LATITUDE	404416.8570N
LTP/FTP LONGITUDE	0732452.4390W
LTP/FTP ELLIPSOIDAL HEIGHT	-00066
FPAP LATITUDE	404247.7090N
FPAP LONGITUDE	0732450.7575W
THRESHOLD CROSSING HEIGHT (TCH)	00041.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.20
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1312
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	E49752A9

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00247
FPAP ORTHOMETRIC HEIGHT	+00247

