

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
GLS 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> KEWR	<u>PROCEDURE NAME</u> GLS RWY 22L	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> NEWARK	<u>STATE</u> NJ		
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 11	<u>SUPERSEDED</u> GLS RWY 22L	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> GLS	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 23 FEBRUARY 2023	<u>REQUIRED EFFECTIVE DATE</u> 2/23/2023	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

FROM	FIX TYPE	TO	FIX TYPE	LEG TYPE	FO/FB	RNP	COURSE	DISTANCE	ALTITUDE
PATRN	IAF	IZEKO		TF	FB	1.00	163.41	7.20	3000
IZEKO	IF	GIMEE		TF	FB	1.00	218.90	1.57	2500
GIMEE		ZAVPI		TF	FB	1.00	218.87	1.57	2000
ZAVPI		BUZZD	PFAF	TF	FB	1.00	218.87	1.57	1500
BUZZD	PFAF	RW22L	MAP	TF	FO	0.30	218.86	4.54	
RW22L	MAP	211 MSL		CA			218.86		
211 MSL		TAYCU		DF	FB	1.00			
TAYCU		KILMA		TF	FO	1.00	252.20	8.00	3000

MISSED APPROACH

MAP:
GLS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT TAYCU AND ON TRACK 252.20 TO KILMA AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

- 1. PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF** (IAF)
- 2. PROFILE STARTS AT IZEKO
- 3. **FAF:** 218.86 **PFAF:** BUZZD **DIST PFAF TO MAP:** 4.54 **DIST PFAF TO THLD:**
- 4. **MIN ALT:** IZEKO 3000, GIMEE 2500, ZAVPI 2000, BUZZD 1500
- 5. **DIST TO THLD FROM PFAF:** 4.54 **MM:** **IM:** **150 HAT:** **200 HAT:** 0.49 **GS ANT:**
- 6. **MIN GP INCPT:** 1500 **GP ALT AT PFAF :** BUZZD 1500 **OM:** **MM:** **IM:**
- 7. **GP ANGLE:** 3.00 **34:1:** IS CLEAR **20:1:** IS CLEAR **TCH:** 42.8
- 8. **MSA FROM:** RW22L 2900

EQUIPMENT REQUIREMENTS NOTES:

RNP APCH - GPS.

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 211.
 CHART PROFILE NOTE: VGSI AND GLS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
 CHART SPEED ICON IN PLANVIEW AT IZEKO: MAX 210 KIAS.

ADDITIONAL FLIGHT DATA:

LTP HAE: -29.1 M.
 HOLD W, RT, 072.00 INBOUND.
 GBAS CHANNEL # 21494
 REFERENCE PATH ID: G22A

MINIMUMS:

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

ALTERNATE: NA

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
GLS DA	211	1800	200	211	1800	200	211	1800	200	211	1800	200			



CHANGES - REASONS

1. CHANGED AIRPORT ELEVATION FROM 18 TO 17 AND TOUCHDOWN ZONE ELEVATION FROM 10 TO 11 - UPDATED AIRNAV DATA.
 2. TERMINAL ROUTES: ADDED (IAF) "PATRN TO IZEKO" - PER FPT REQUEST.
 3. TERMINAL ROUTES: UPDATED (IF) TO (FAF) FROM "IZEKO TO GIMEE 218.90/2.83/2500", "GIMEE TO BUZZD 218.83/3.19/1500" TO "IZEKO TO GIMEE 218.90/1.57/2500", GIMEE TO ZAVPI 218.87/1.57/2000" AND "ZAVPI TO BUZZD 218.87/1.57/1500" - ADDED NEW ROUTES TO AVOID TCAS ALERTS FROM KTEB DEPARTURES; FPT REQUEST.
 4. TERMINAL ROUTES: ADDED CA LEG RW22L TO 211 MSL - IAW 8260.58B 3-5-2.
 5. TERMINAL ROUTES: UPDATED BUZZD TO RWY 22L," DISTANCE FROM "4.49" TO "4.54" - NEW FAF LOCATION TO MATCH ILS DESIGN PER FPT.
 6. TERMINAL ROUTES: UPDATED MA FROM "RW22L TO CIXAL" TO "211 MSL TO TAYCU" - FPT REQUEST.
 7. TERMINAL ROUTES: UPDATED MA FROM "CIXAL TO KILMA" TO "TAYCU TO KILMA," COURSE FROM "236.32" TO "252.20," DISTANCE FROM "14.66" TO "8.00" - PER FPT REQUEST.
 8. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 3000 DIRECT CIXAL AND ON TRACK 236.32 TO KILMA AND HOLD" TO "CLIMB TO 3000 DIRECT TAYCU AND ON TRACK 252.20 TO KILMA AND HOLD" - FPT REQUEST.
 9. PROFILE LINE 3: ADDED PFAF: "BUZZD" AND DIST PFAF TO MAP "4.54" - IAW 8260.19I 8-6-7 C.
 10. PROFILE LINE 4: UPDATED MIN ALT FROM "IZEKO 3000, GIMEE 2500" TO "IZEKO 3000, GIMEE 2500, ZAVPI 2000, BUZZD 1500" - UPDATED FIX NAMES AND ALTITUDES PER FPT REQUEST TO AVOID TCAS ALERTS FROM KTEB DEPARTURES.
 11. PROFILE LINE 5: UPDATED DIST TO THLD FROM OM: 4.49 TO PFAF: 4.54 AND ADDED 200 HAT: 0.49 - IAW 8260.19I 8-6-7 E.
 12. PROFILE LINE 7: UPDATED TCH FROM "42.7" TO "42.8" AND ADDED "20:1 IS CLEAR" - UPDATED AIRNAV DATA AND IAW 8260.19I 8-6-7 G.
 13. PROFILE LINE 8: UPDATED MSA FROM "RW22L 3000" TO "RW22L 2900" - UPDATED OBSTACLE SURVEY, NEW CONTROLLING OBSTACLE.
 14. PBN REQUIREMENT NOTES: ADDED "RNP APCH - GPS" - IAW 8260.19I 8-6-8 B.
 15. NOTES: UPDATED CHART PROFILE NOTE FROM "VGSI AND GLS GLIDEPATH NOT COINCIDENT" TO "VGSI AND GLS GLIDEPATH NOT COINCIDENT (VGSI {ANGLE}/TCH {FEET})" - IAW 8260.19I 8-6-9 M.
 16. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT IZEKO: MAX 210 KIAS" - REQUIRED REF MINIMUM SEGMENT LENGTH IZEKO TO GIMEE, WITHOUT RESTRICTION LENGTH WOULD HAVE TO BE 3.09 NM TO SUPPORT ATC VECTORS.
 17. NOTES: REMOVED "DME/DME RNP-0.3 NA" AND "GPS REQUIRED" - NO LONGER REQUIRED, UPDATED EQUIPMENT NOTE ADDED.
 18. NOTES: UPDATED CHART NOTE FROM: "AUTOPILOT COUPLED APPROACH NA BELOW 210" TO "AUTOPILOT COUPLED APPROACH NA BELOW 211" - UPDATED TDZE, UPDATED MINS.
 19. ADDITIONAL FLIGHT DATA: REMOVED "DISTANCE TO THLD FROM 200 HAT: 0.49 NM" - ADDED TO PROFILE LINE 5 IAW 8260.19I 8-6-7 E.
 20. ADDITIONAL FLIGHT DATA: UPDATED FROM LAAS CHANNEL #21494 TO GBAS CHANNEL #21494 - IAW 8260.19. 8-6-10 J.
 21. MINIMUMS: UPDATED GLS DA FROM "210" TO "211" - UPDATED TDZE.
 22. REMOVED: CHART PLANVIEW NOTE: RADAR REQUIRED -NO LONGER REQUIRED.
 23. UPDATED CRC REMAINDER FROM "03985CEC" TO "0BBD8EB0," FTP/LTP LAT LONGS FROM "404152.2890N/0740940.8780W" TO "404152.2970N/0740940.8730W," FPAP LAT/LONGS FROM "404032.0400N/0741031.9000W" TO "404032.0430N/0741031.8940W," REFERENCE PATH DATA SELECTOR FROM 3 TO 1, LTP ELLIPSOIDAL HEIGHT FROM "-00292 TO -00291", TCH FROM 00042.7 TO 00042.8", COURSE WIDTH AT THRESHOLD FROM "106.50 TO 106.75" - REVISED AIRNAV DATA.
 24. ADDITIONAL FLIGHT DATA: ADDED LTP HAE: -29.1 M - IAW 8260.10I 8-6-10 J.
 25. REMOVED NOTE FOR INOPERATIVE MALSR INCREASE GLS ALL CATS VISIBILITY TO RVR 4000 - NO LONGER REQUIRED.
- 10/19/2022: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/03/2022.
 1. REQUIRED EFFECTIVE DATE UPDATE FROM ROUTINE TO 12/29/2022 - PROJECT CHANGED TO A HARD DATE.
- 11/3/2022: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 05/03/2022.
 1. REQUIRED EFFECTIVE DATE CHANGED FROM 12/29/22 TO 2/23/22.

COORDINATED WITH:

A4A ALPA AOPA APA HAI NBAA OTHER: EWR ATCT, NY TRACON, ZNY, AMGR

FLIGHT CHECKED BY
PENDING

OFFICE

DATE

Digitally signed by
CASIMIR L TABAKA
Nov 04, 2022

DEVELOPED BY
ERIC N SUSKI (JUDITH TUTTLE)

Digitally signed by
CASIMIR L TABAKA
Nov 04, 2022

OFFICE
AJV-A431

DATE
05/03/2022

APPROVED BY
JOHNNIE BAKER

Digitally signed by
CASIMIR L TABAKA
Nov 04, 2022

OFFICE
AJV-A430

DATE

TITLE
MANAGER



**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (GPS)OR STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARD SERVICE - FAR PART 97.33**

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FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	14
AIRPORT IDENTIFIER	KEWR
RUNWAY	RW22L
APPROACH PERFORMANCE DESIGNATOR	1
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	1
REFERENCE PATH IDENTIFIER (APPROACH ID)	G22A
LTP/FTP LATITUDE	404152.2970N
LTP/FTP LONGITUDE	0740940.8730W
LTP/FTP ELLIPSOIDAL HEIGHT	-00291
FPAP LATITUDE	404032.0430N
FPAP LONGITUDE	0741031.8940W
THRESHOLD CROSSING HEIGHT (TCH)	00042.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0248
HORIZONTAL ALERT LIMIT (HAL)	
VERTICAL ALERT LIMIT (VAL)	
<u>CRC REMAINDER</u>	0BBD8EB0

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K6
LTP ORTHOMETRIC HEIGHT	+00032
FPAP ORTHOMETRIC HEIGHT	+00032



CITY AND STATE NEWARK, NJ	ELEVATION:	TDZE:11	FACILITY	PROCEDURE NO./AMDT NO./ GLS RWY 22L, 1	SUP: GLS RWY 22L
	AIRPORT NAME		IDENTIFIER:		AMDT: 0D
	NEWARK LIBERTY INTL		RNAV		EFFECTIVE DATE: 11/03/2022