

**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> 1A	<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SUPERSEDED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> 1	<u>DATED</u> 02/23/2023	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 04/21/2022	<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>
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:**

QUALITY  
31  
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. PROFILE STARTS AT IZEKO

3. FAC: 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

PBN REQUIREMENTS NOTE:

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

CHANGES - REASONS

1. FAS DATA: CHANGED REFERENCE PATH DATA SELECTOR FROM 1 TO 3- CORRECTED ADMINISTRATIVE ERROR.
2. CRC REMAINDER CHANGED FROM 0BBD8EB0 TO 93C1D48D - FAS DATA CHANGES.



AIRPORT ID  
KEWR

PROCEDURE NAME  
GLS RWY 22L

ORIGINAL/AMENDMENT  
1A

CITY  
NEWARK

STATE  
NJ

COORDINATED WITH:

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

FLIGHT CHECKED BY  
JEFFREY A FINDLEY

*Digitally signed by*  
**CASIMIR L TABAKA**  
May 22, 2023

OFFICE  
FPO

DATE  
05/19/2023

DEVELOPED BY  
JOSEPH L. ZEDER

*Digitally signed by*  
**CASIMIR L TABAKA**

OFFICE  
AJV-A433

DATE  
02/09/2023

APPROVED BY  
CASIMIR TABAKA

*Digitally signed by*  
**CASIMIR L TABAKA**  
Feb 09, 2023

Feb 09, 2023

OFFICE  
AJV-A433

DATE

TITLE  
MANAGER

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION GLSOR STANDARD INSTRUMENT APPROACH PROCEDURE FLIGHT STANDARD SERVICE - FAR PART 97.33			Bearings, headings courses, and radials are magnetic. Elevations and altitudes are in fee, MSL, except HAT, HAA, TCH, and RAltitudes are minimum altitudes unless otherwise indicated. Ceilings are in fee above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.		
FAS DATA BLOCK INFORMATION					
DATA FIELD		DATA			
OPERATION TYPE		0			
SBAS SERVICE PROVIDER IDENTIFIER		14			
AIRPORT IDENTIFIER		KEWR			
RUNWAY		RW22L			
APPROACH PERFORMANCE DESIGNATOR		1			
ROUTE INDICATOR					
REFERENCE PATH DATA SELECTOR		3			
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)					
CRC REMAINDER		93C1D48D			
ADDITIONAL PATH POINT RECORD INFORMATION					
ICAO CODE		K6			
LTP ORTHOMETRIC HEIGHT		+00032			
FPAP ORTHOMETRIC HEIGHT		+00032			
CITY AND STATE NEWARK, NJ		ELEVATION: AIRPORT NAME NEWARK LIBERTY INTL	TDZE:11	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./ GLS RWY 22L, 1A EFFECTIVE DATE: 04/20/2023
					SUP: GLS RWY 22L AMDT: 1 DATED: 02/23/2023



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

<u>AIRPORT ID</u> KEWR	<u>PROCEDURE NAME</u> GLS RWY 22L	<u>AMDT NO.</u> 1A	<u>CITY</u> NEWARK	<u>STATE</u> NJ	<u>AIRPORT ELEVATION</u> 17	<u>FACILITY</u> GLS
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: GLS

FROM  
PATRN

TO  
IZEKO

<u>RNP</u>	<u>DISTANCE</u> 7.20	<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	405633.00N/0741130.00W	742	164	98	4E	1000				AT1258	3000
												TERRAIN	405418.00N/0741027.00W	462 (500)								AS1500	2000

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:

INTERMEDIATE: GLS

FROM  
IZEKO

TO  
GIMEE

<u>RNP</u>	<u>DISTANCE</u> 1.57	<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 (34-001062)	404754.36N/0740521.51W	675	500	50	5D	500				AT1325	2500
												TERRAIN	405009.00N/0740542.00W	164 (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:



INTERMEDIATE: GLS STEPDOWN

FROM  
GIMEE

TO  
ZAVPI

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	1.57											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (34-001064)	404753.36N/0740525.51W		675	500	50	5D	500				AT825	2000
TERRAIN	404909.00N/0740636.00W		144 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE: GLS STEPDOWN

FROM  
ZAVPI

TO  
BUZZD

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	1.57											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (34-001063)	404747.36N/0740526.51W		675	500	50	5D	500				AT325	1500
TERRAIN	404712.00N/0740809.00W		154 (200)								AS1000	1200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: GLS

FROM  
BUZZD

TO  
RW22L

<u>RNP</u>	<u>DISTANCE</u> 4.54	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 200			<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>
							ASC				211

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 : GLS

FROM  
DA

TO  
KILMA

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 46				
<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>
							ASC				3000
STACK (36-000251)	403528.49N/0741155.21W	515	500	50	5D	1000					1600
TERRAIN	403206.00N/0741927.00W	223 (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



MSA

CENTER  
RW22L

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	095	06.8	1806	20	3	1A	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:





PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH  
NYC TRACON, EWR TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KEWR	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KEWR	<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>
RW29 - TDZ, HIRL, REIL, C/LINE, PAPI-4R		NPI-G	
RW04L - TDZ, MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW04R - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW11 - TDZ, HIRL, REIL, C/LINE, PAPI-4R		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22L - TDZ, ALSF-2, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW22R - TDZ, MALSR, HIRL, REIL, C/LINE, PAPI-4L		PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 10.6	<u>TCH</u> 42.8	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 60.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	1793
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:



**"VISUAL PORTION OF FINAL" PENETRATIONS**

**HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS**

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

PENETRATIONS REMARKS:

**PART C: GENERAL REMARKS:**

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VEGETATION HEIGHT OF 100 FT USED PER FPT.

WAIVER: 8260.54A TABLE 2-5 TCH REQUIREMENTS WHEEL HEIGHT GROUP 4 MINIMUM TCH VALUE 45 FEET.

WAIVER: 8260.58 PARA 1-3-1C: ATC TURNS TO JOIN INITIAL AND INTERMEDIATE SEGMENT MUST BE A TF THAT ACCOMMODATES A 90 DEGREE INTERCEPT ANGLE. INTERMEDIATE SEGMENT IZEKO TO GIMEE MAX TURN 65 DEGREES.

WAIVER: 8260.3 PARA 2-5-3D DECENT GRADIENTS.

<div>AIRPORT ID KEWR</div>	<div>PROCEDURE NAME GLS RWY 22L</div>	<div>AMDT NO. 1A</div>	<div>CITY NEWARK</div>	<div>STATE NJ</div>	<div>AIRPORT ELEVATION 17</div>	<div>FACILITY GLS</div>
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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	THLD	TO 1000FT POINT	3.29
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.93
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	205.86
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	100
DISTANCE FROM	THLD	TO 1500FT POINT	5.71
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	2.79
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	205.87
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200

THRESHOLD  
COORDINATES  
(IF STR-IN)

404152.30N/0740940.87W

ARP COORDINATES

404132.93N/0741007.27W

RUNWAY APCH END  
AND DIST FURTHEST  
FROM ARP

RUNWAY 4L DISTANCE 1.14 NM

FAF  
COORDINATES

404557.75N/0740704.58W

FIX NAME  
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.  
THLD DISPLACED 1793FT, ACTUAL COORDINATES: 404208.24N/0740930.73W.

QUALITY  
31  
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JOSEPH L. ZEDER	<u>OFFICE</u> AJV-A433	<u>DATE</u> 02/09/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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