

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (RNP) 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> NEWARK LIBERTY INTL	<u>AIRPORT ID</u> KEWR	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 4R	<u>ORIGINAL/AMENDMENT</u> ORIG-E	<u>CITY</u> NEWARK	<u>STATE</u> NJ	
<u>AIRPORT ELEVATION</u> 17	<u>TDZE</u> 11	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 4R	<u>ORIGINAL/AMENDMENT</u> ORIG-D	<u>DATED</u> 09/18/2014	<u>MAG VAR</u> 13W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 30 JANUARY 2020	<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>
KILMA	IAF	ISACE		TF	FB	1.00	086.33	5.96	2800
ISACE	IF	COWWE	PFAF	TF	FB	0.50	038.75	6.00	1700
COWWE	PFAF	RW04R	MAP	TF	FO	0.30	038.79	5.05	
RW04R	MAP	396 MSL		CA			038.79		
396 MSL		CANBO		DF	FB	1.00			
CANBO		MOSME		TF	FB	1.00	073.36	2.97	
MOSME		TEB VOR/DME		TF	FO	1.00	024.98	6.51	2500

MISSED APPROACH

MAP:
RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2500 DIRECT CANBO AND ON TRACK 073.36 TO MOSME AND ON TRACK 024.98 TO TEB VOR/DME AND HOLD. WHEN AUTHORIZED BY ATC, CONTINUE CLIMB-IN-HOLD TO 3000.
*MISSED APPROACH REQUIRES MINIMUM CLIMB OF 317 FEET PER NM TO 700.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
20
CHECKED

PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
2. PROFILE STARTS AT ISACE
3. FAC: 038.79 PFAF: COWWE DIST PFAF TO MAP: DIST PFAF TO THLD:
4. MIN ALT: ISACE 2800, COWWE 1700
5. DIST TO THLD FROM PFAF: 5.05 MM: IM: 150 HAT: 385 HAT: 1.04 GS ANT:
6. MIN GP INCPT: 1700 GP ALT AT PFAF : COWWE 1700 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: IS CLEAR 20:1: IS CLEAR TCH: 55.4
8. MSA FROM: RW04R 3000

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -3°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT KILMA ON V433 WESTBOUND.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 ALL CATS VISIBILITY TO RVR 6000 AND RNP 0.30 ALL CATS VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 2800 AT ISACE.
CHART AT OR BELOW 4000 AT KILMA.
HOLD NW, RT, 157.00 INBOUND

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
AUTHORIZATION REQUIRED															
RNP 0.15 DA*	396	4000	385	396	4000	385	396	4000	385	396	4000	385			
RNP 0.30 DA	490	6000	479	490	6000	479	490	6000	479	490	6000	479			



CHANGES - REASONS

1. AIRPORT ELEVATION CHANGED FROM 18 TO 17 - NEW SURVEY DATA.
2. CA LEG INCREASED FROM 380 MSL TO 396 MSL - DA INCREASED.
3. PROFILE SECTION, LINE 3, ENTERED "PFAF: COWWE" - 8260.19H REQUIREMENT.
4. PROFILE SECTION, LINE 5, ADDED 385 HAT DISTANCE - 8260.19H REQUIREMENT.
5. PROFILE SECTION, LINE 7, CHANGED 34:1 FROM "NOT CLEAR" TO "CLEAR" AND ADDED "20:1 IS CLEAR" - CURRENT OBSTACLE EVALUATION AND 8260.19H REQUIREMENT.
6. CHART NOTE: GPS REQUIRED REPLACED WITH PBN REQUIREMENTS NOTE: RNP AR APCH - 8260.19H REQUIREMENT.
7. BARO-VNAV NOTE, REMOVED FAHRENHEIT VALUES - 8260.19H REQUIREMENT.
8. INOP NOTE, REPLACED "ALSF-2" WITH "ALS" AND CHANGED RNP 0.30 ADJUSTMENT FROM 1 3/4 SM TO 1 3/8 SM - 8260.19H REQUIREMENT AND RECALCULATION USING CURRENT 8260.3D VISIBILITY TABLES.
9. ADDITIONAL FLIGHT DATA, REMOVED "ROUTE TYPE" INFO AND "#TCH 66.1 MSL (DO NOT CHART)" - NO LONGER REQUIRED BY 8260.19H.
10. ADDITIONAL FLIGHT DATA, REMOVED 369 HAT DISTANCE - INCREASED TO 385 AND MOVED TO PROFILE SECTION.
11. RNP 0.15 DA/HAT INCREASED FROM 380/369 TO 396/385 - NEW CONTROLLING OBSTACLE.

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: ZNY, NEW YORK APP CON, EWR ATCT, PORT AUTHORITY OF NY AND NJ

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

OFFICE

Digitally signed by

DATE

DAVID DANNER

Oct 30, 2019

DEVELOPED BY

RUSSELL ROSLEWSKI

Digitally signed by

RUSSELL ROSLEWSKI

Sep 16, 2019

OFFICE

AJV-A421

DATE

09/11/2019

APPROVED BY

MARLON ROBINSON

Digitally signed by

DAVID DANNER

Oct 30, 2019

OFFICE

AJV-A420

DATE

TITLE

MANAGER

