

US DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION		RNAV (RNP) - STANDARD, INSTRUMENT APPROACH PROCEDURE, TITLE 14 CFR PART 97.33		Bearings, headings, courses, 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 in feet RVR.											
TERMINAL ROUTES										MISSED APPROACH					
FROM		TO		COURSE AND DISTANCE				ALTITUDE		RNP: DA					
HEVNU (IF)		CUBMO (TF) (FB) (RNP 1.00)		218.90 / 4.07				3000		CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 DIRECT KILMA AND HOLD.					
CUBMO		OSUSE (TF) (FB) (RNP 1.00)		218.89 / 1.75				2500							
OSUSE (FAF)		RW22L (MAP) (TF) (FO)		218.88 / 7.68						ADDITIONAL FLIGHT DATA: HOLD W, RT, 072.00 INBOUND. DISTANCE TO THLD FROM 425 HAT: 1.20 NM. CHART MANDATORY 3000 AT CUBMO. ROUTE TYPE QUALIFIER 1: F ROUTE TYPE QUALIFIER 2: S ROUTE TYPE: A, H #TCH: 53.4 MSL (DO NOT CHART)					
RW22L (MAP)		600 MSL (CA)		218.88				600							
600 MSL		KILMA (DF) (FO)						3000							
1. PT _____ SIDE OF COURSE _____ OUTBOUND _____ FT WITHIN _____ MILES OF _____ (IAF)										MAG VAR: 13W EPOCH YEAR: 1985					
2. PROFILE STARTS AT HEVNU															
3. FAC: 218.88 FAF: _____ DIST FAF TO MAP: _____ THLD: _____															
4. MIN. ALT: HEVNU 3000, CUBMO 3000, OSUSE 2500															
5. DIST TO THLD FROM OM: 7.68 MM: _____ IM: _____ 150 HAT: _____ 100 HAT: _____ GS ANT: _____															
6. MIN GS INCPT: 2500 GS ALT AT: OSUSE 2500 OM: _____ MM: _____ IM: _____															
7. GS ANGLE: 3.00 TCH: 42.8 # 34:1 IS CLEAR															
8. MSA FROM: RW22L 2900															
MINIMUMS															
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT								ALTERNATE: N A		STANDARD					
CATEGORY =====>		A		B		C		D		E					
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
AUTHORIZATION REQUIRED															
RNP 0.30 DA	436	5000	425	436	5000	425	436	5000	425	436	5000	425			
NOTES: CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -13C (9F) OR ABOVE 54C (130F). CHART NOTE: GPS REQUIRED. CHART PLANVIEW NOTE: RADAR REQUIRED. CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).															
CITY AND STATE NEWARK, NJ		ELEVATION: 17 TDZE: 11 AIRPORT NAME: NEWARK LIBERTY INTL		FACILITY IDENTIFIER: RNAV		PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (RNP) Y RWY 22L, AMDT 1						SUP: AMDT: ORIG-H DATED 12/11/2014			



ALL AFFECTED PROCEDURES REVIEWED? <div><input checked="" type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE <div>ROUTINE</div>	
COORDINATED WITH: <div><div>ATA<div><input checked="" type="checkbox"/></div></div><div>AAT<div><input type="checkbox"/></div></div><div>ALPA<div><input checked="" type="checkbox"/></div></div><div>APA<div><input checked="" type="checkbox"/></div></div><div>AOPA<div><input checked="" type="checkbox"/></div></div><div>NBAA<div><input checked="" type="checkbox"/></div></div><div>OTHER (specify)<div><input checked="" type="checkbox"/> EWR ATCT, NY TRACON, ZNY, AMGR, NJ DEPT OF AVIATION</div></div></div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY <i>Digitally signed by</i>					
NAME: <div>MIKE MELSSEN</div>				FIFO AJV-5413	DATE: 06/08/2016
APPROVED BY					
NAME: <div>MARLON J. ROBINSON</div> <div>MANAGER</div>				FIFO AJV-5410	DATE:
CHANGES: 1. CHANGED MISSED APPROACH FROM: "CLIMB TO 3000 DIRECT FESEX, AND VIA TRACK 236.03 TO KILMA AND HOLD. WHEN AUTHORIZED BY ATC, CLIMB-IN-HOLD TO 4000" TO: CLIMB TO 600 THEN CLIMBING RIGHT TURN DIRECT KILMA AND HOLD. 2. REMOVED CHART FAS OBSTACLE: 114 BLDG 462446N/0741000W. 3. CHANGED DISTANCE TO THLD FROM 419 HAT: 1.15 NM TO DISTANCE TO THLD FROM 436 HAT: 1.20 NM. 4. CHANGED ADDITIONAL FLIGHT DATA APPROACH ROUTE QUALIFIER 1: P TO ROUTE TYPE QUALIFIER 1:F; CHANGED APPROACH ROUTE QUALIFIER 2: A, S TO ROUTE TYPE QUALIFIER 2: S. 5. CHANGED ROUTE TYPE DESCRIPTION: A, R TO ROUTE TYPE: A, H. 6. CHANGED #TCH: 60.1 MSL TO #TCH 53.4 MSL (DO NOT CHART) IN ADDITIONAL FLIGHT DATA. 7. CHANGED DISTANCE FROM HEVNU TO CUBMO FROM 4.09 TO 4.07. 8. CHANGED DISTANCE FROM CUBMO TO OSUSE FROM 1.93 TO 1.75. 9. CHANGED DISTANCE FROM OSUSE TO RW22L FROM 7.50 TO 7.68. 10. CHANGED TCH FROM 50.0# TO 42.3# ON LINE 7. 11. MSA INCREASED FROM 2700 TO 2900. 12. RNP 0.30 DA/HAT CHANGED FROM 429/419 TO 436/425 ALL CATS. (SEE FORM 8260-10)					
REASONS: 1. IAW 8260.19G PARA 8-6-7(D). 2. NOT REQUIRED FOR RNP PROCEDURES. 3. HAT CHANGED FROM 419 TO 440; VALUE FROM VISCHECK CALCULATOR. 4,5. IAW 8260.19G PARA 8-6-8K(3). 6. TCH CHANGED FROM 60.1 TO 53.4. 7. IPDS CALCULATED DISTANCE. 8,9. OSUSE RELOCATED TO PFAF LOCATION BASED ON 42.79' TCH. 10. UPDATED TO MATCH I-LSQ GLIDESLOPE TCH. 11. CONTROLLING OBSTACLE CHANGED FROM 1699 MSL AAO TO 1806 MSL BLDG. 12. HAT CHANGED DUE TO NEW FINAL CONTROLLING OBSTACLE: 114 MSL BUILDING. 13. DUE TO UPDATED 5-YEAR AVERAGE COLD TEMPERATURE 2011-2015. 14. IAW 8260.19G PARA 8-6-6N(2). 15. ALTERNATE MINIMUMS ARE STANDARD.					



US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) - STANDARD,
INSTRUMENT APPROACH PROCEDURE, - TITLE 14 CFR PART 97.33

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QUALITY
25
CHECKED

CITY AND STATE
NEWARK, NJ

ELEVATION: 17 TDZE: 11
AIRPORT NAME:
NEWARK LIBERTY INTL

FACILITY
IDENTIFIER:
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:
RNAV (RNP) Y RWY 22L, AMDT 1

SUP:
AMDT: ORIG-H
DATED: 12/11/2014

ALL AFFECTED PROCEDURES REVIEWED? <div><input type="checkbox"/> YES</div> <div><input type="checkbox"/> NO</div>		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH:					
ATA <div><input type="checkbox"/></div>		AAT <div><input type="checkbox"/></div>		ALPA <div><input type="checkbox"/></div>	
APA <div><input type="checkbox"/></div>		AOPA <div><input type="checkbox"/></div>		NBAA <div><input type="checkbox"/></div>	
OTHER (specify)		<div><input type="checkbox"/></div>		<div><input type="checkbox"/></div>	
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				FIFO	DATE:
APPROVED BY					
NAME:				FIFO	DATE:
CHANGES: CHANGES CONT. 13. UNCOMPENSATED BARO-VNAV SYSTEM NOTE CHANGED FROM: "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -3C (26F) OR ABOVE 49C (120F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW -13C (9F) OR ABOVE 54C (130F)". 14. CHANGED VGSI AND RNAV GLIDEPATH NOTE FROM: "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT" TO: "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}). 15. ADDED "STANDARD" UNDER ALTERNATE MINIMUMS.					
REASONS:					

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION
RNAV (RNP) STANDARD INSTRUMENT APPROACH PROCEDURE
FLIGHT STANDARDS SERVICES - TITLE 14 CFR PART 97.33

Bearings, headings, courses, 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 in feet RVR.

ARINC SUMMARY - KEWR

ROUTES

TRANSITION	WPT SEQ	WPT NAME	LEG TYPE	FB/FO	RNP	MAG CRS	REC NAV	ANGLE	TURN DIR	CENTER FIX	TURN RADIUS	ALTITUDE DESCRIPTION & VALUE	SPEED LIMIT DESCRIPTION & VALUE	WPT DESCRIPTION CODE
	010	HEVNU	IF	FB								AA 03000		E I
	011	CUBMO	TF	FB	1.0							AT 03000		E
	020	OSUSE	TF	FB	1.0					RW22L		AA 02500		E F
	030	RW22L	TF	FO	0.3			3.00				AT 00053		GY M
	040		CA	FB		218.9						AA 00600		M
	050	KILMA	DF	FO								AA 03000		EY
	060	KILMA	HM	FO		072.0			R			AA 03000		EE

POINTS

POINT NAME	LATITUDE	LONGITUDE
KILMA	N402909.70	W0742408.82
CUBMO	N405022.06	W0740415.89
HEVNU	N405401.85	W0740155.35
OSUSE	N404847.39	W0740516.36

RUNWAYS

RUNWAY	THRESHOLD LATITUDE	THRESHOLD LONGITUDE	THRESHOLD ELEVATION	PROCEDURE TCH
RW22L	N404152.30	W0740940.87	00011	42.8

QUALITY
28
CHECKED

CITY AND STATE NEWARK, NJ	ELEVATION: 17 TDZE: 11	FACILITY IDENTIFIER: RNAV	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE: RNAV (RNP) Y RWY 22L, AMDT 1	SUP:
	AIRPORT NAME: NEWARK LIBERTY INTL			AMDT: ORIG-H
				DATED: 12/11/2014

ALL AFFECTED PROCEDURES REVIEWED? <input type="checkbox"/> YES <input type="checkbox"/> NO		COORDINATES OF FACILITIES		REQUIRED EFFECTIVE DATE	
COORDINATED WITH: <div>ATA<input type="checkbox"/> AAT<input type="checkbox"/> ALPA<input type="checkbox"/> APA<input type="checkbox"/> AOPA<input type="checkbox"/> NBAA<input type="checkbox"/> OTHER (specify) <input type="checkbox"/> _____</div>					
FLIGHT CHECKED BY					
NAME:				FIFO	DATE:
DEVELOPED BY					
NAME:				NFPG	DATE:
APPROVED BY					
NAME:				NFPG	DATE:
CHANGES:					
REASONS:					

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD		
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PART - A OBSTRUCTION DATA

[illegible]

PART B - SUPPLEMENTAL DATA										PART C - REMARKS: VDP NOT ESTABLISHED - RNP PROCEDURE. PRECIPITOUS TERRAIN EVALUATION COMPLETED. THRESHOLD DISPLACED 1793 FEET. SERVICE A: KEWR YES. DUE TO REDUNDANT SOURCES, NO BACKUP ALTIMETER REQUIRED. VGSI DATA: 3.00/60.0. MAX VEGETATION HEIGHT 100 FT PER FPT. FLIGHT CHECK 4D ACCURACY APPLIED TO THE FOLLOWING: 34-020006; 68 MSL TOWER AT 404236.27N/0740927.10W (MISSED APPROACH LEVEL SFC OBSTACLE). 34-000094; 132 MSL T-L TWR AT 404645.00N/0740529.00W (INTERMEDIATE SEGMENT OBSTACLE). ACCURACY CODE OF 5E ASSIGNED TO SURVEYED OBSTACLES WITHOUT ASSIGNED ACCURACY CODE (0/0). RNP 0.30: OCS SLOPE 21.70:1, ORIGIN = 4033 FT. CRITICAL TEMPERATURES: CRITICAL LOW :-13C (+9F) CRITICAL HIGH :+54C (+130F) ACT :-13C APT ISA :+14.97C CRITICAL TEMPERATURE REMARKS AVERAGE COLD TEMPERATURE DERIVED FROM 5-YEAR HISTORY (2011-2015). CRITICAL LOW TEMPERATURE BASED ON ACT. DESCENT RATE (FPM): STANDARD TEMP 954 HIGH TEMP 1114. AUTHORIZATION REQUIRED (AR). FAAO 8260.58 CRITERIA USED: IPDS USED FOR ALL SEGMENTS.															
1. COMMUNICATIONS WITH:				2. WEATHER SERVICE				3. ALTIMETER SETTING																	
EWR TOWER NY TRACON				N W S		OTHER: ASOS		SOURCE:KEWR																	
								DISTANCE:																	
								HOURS REMOTE OPERATION:																	
SATISFACTORY ON:																									
X	V	H	F	X	U	H	F	LOCATION: KEWR												ADJUSTMENT: 0					
4. MONITOR STATUS		PRIMARY NAVAID:																							
		MONITOR POINT:																							
		HRS OPTN:		CAT 1																					
				CAT 3																					
5. APPROACH & RUNWAY LIGHTING		X		ALSF-2 04R, 22L																					
				(S) SALS																					
		X		MALSR 04L, 22R																					
		X		HIRL 04L, 04R, 11, 22L, 22R, 29																					
				MIRL																					
		X		REIL 11, 22R, 29																					
		X		TDZ 04L, 04R, 11, 22L, 22R, 29																					
		X		C/L 04L, 04R, 11, 22L, 22R, 29																					
		X		OTHER (SPECIFY) PAPI-4L 04L, 22L, 22R VASI-4L 11 PAPI-4R 04R, 29																					
6. RUNWAY MARKINGS		BASIC																							
		ALL WEATHER		PIR-G 04L, 04R, 11, 22L, 22R																					
		INSTRUMENT		NPI-G 29																					
7. RUNWAY VISUAL RANGE		APPROACH		04L, 04R, 11, 22L, 22R																					
		MIDFIELD		04L, 04R, 22L, 22R																					
		ROLL OUT		04L, 04R, 22L, 22R																					
8. GLIDE PATH		GP ANGLE: 3.00				ELEV RWY THRESHOLD:10.6																			
		DISTANCE FROM RWY:				ELEV GP ANTENNA:																			
						THRESHOLD CROSSING HEIGHT:42.8																			
9. FINAL APPROACH COURSE AIMING				X		RUNWAY THRESHOLD				FT. FROM THRESHOLD															
				X		ON CENTERLINE				FT. FROM CENTERLINE															
10. WAIVERS: NONE																									
PART D - PREPARED BY: MIKE MELSSEN								DATE: 06/08/2016																	
TITLE: AERONAUTICAL INFORMATION SPECIALIST								OFFICE: AJV-5413																	

QUALITY
25
CHECKED