

**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> ONTARIO INTL	<u>AIRPORT ID</u> KONT	<u>PROCEDURE NAME</u> RNAV (RNP) Z RWY 26L	<u>ORIGINAL/AMENDMENT</u> 2	<u>CITY</u> ONTARIO	<u>STATE</u> CA	
<u>AIRPORT ELEVATION</u> 944	<u>TDZE</u> 926	<u>SUPERSEDED</u> RNAV (RNP) Z RWY 26L	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 04/27/2017	<u>MAG VAR</u> 12E	<u>EPOCH YEAR</u> 2020
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 5 DECEMBER 2019	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

THIS IS A CORRECTED COPY OF A PROCEDURE ORIGINALLY PUBLISHED IN TL 19-23.

<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>
RAFII	IAF	JOKEL		TF	FB	0.50	151.36	3.64	7000
JOKEL		AYKAY		TF	FB	0.50	151.37	2.10	6300
RUMBL	IAF	ZENPO		TF	FB	0.50	199.36	4.34	9000
ZENPO		RUXNN		TF	FB	0.50	199.33	4.20	8000
RUXNN		GAREY		TF	FB	0.50	210.41	3.00	7200
AYKAY	IF	TAKOE		TF	FB	0.50	198.63	6.44	4300
GAREY	IF	ZIGGY		TF	FB	0.50	213.07	3.94	6000
ZIGGY		TAKOE		TF	FB	0.50	213.08	5.37	4300
TAKOE	IF	TESRE	PFAF	TF	FB	0.50	256.94	4.85	2900
TESRE	PFAF	RW26L	MAP	TF	FO	0.30	258.06	6.02	
RW26L	MAP	AXOYO		TF	FB	1.00	258.00	4.60	
AXOYO		LAKVE		TF	FB	1.00	173.50	5.14	
LAKVE		MRIAM		TF	FB	1.00	122.12	4.25	
MRIAM		ADRYN		TF	FO	1.00	079.23	3.11	3400

QUALITY
18
CHECKED

MISSED APPROACH**MAP:**

RNP: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3400 ON TRACK 258.00 TO AXOYO AND TRACK 173.50 TO LAKVE AND TRACK 122.12 TO MRIAM AND TRACK 079.23 TO ADRYN AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:**PROFILE:**

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF (IAF)					
2. PROFILE STARTS AT TAKOE									
3. FAC:	258.06	PFAF: TESRE	DIST PFAF TO MAP:	DIST PFAF TO THLD:					
4. MIN ALT: TAKOE 4300, TESRE 2900									
5. DIST TO THLD FROM OM:	6.02	MM:	IM:	150 HAT:	292 HAT:	0.73	GS ANT:		
6. MIN GP INCPT:	2900	GP ALT AT PFAF : TESRE 2900			OM:		MM:		IM:
7. GP ANGLE:	3.00	34:1:	IS CLEAR	20:1:	IS CLEAR	TCH:	57.9		
8. MSA FROM: RW26L 11300									

PBN REQUIREMENTS NOTE:

RNP AR APCH.

NOTES:CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 1°C OR ABOVE 54°C. 

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAREY ON V8-21 NORTHEAST BOUND.

CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS.

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).

CHART PLANVIEW NOTE AT RAFII: (RNP 0.50).

CHART PLANVIEW NOTE AT RUMBL: (RNP 0.50).

CHART SPEED ICON IN PLANVIEW AT RAFII, RUMBL: MAX 240 KIAS.

CHART SPEED ICON IN PLANVIEW AT TAKOE: MAX 210 KIAS.

CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 VISIBILITY ALL CATS TO RVR 4500, RNP 0.18 VISIBILITY ALL CATS TO RVR 5500, RNP 0.30 VISIBILITY ALL CATS TO RVR 6000.

ADDITIONAL FLIGHT DATA:

CHART MANDATORY 8000 AT RAFII.

CHART MANDATORY 10000 AT RUMBL.

HOLD E, RT, 260.00 INBOUND

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD

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	1218	2400	292	1218	2400	292	1218	2400	292	1218	2400	292			
RNP 0.18 DA	1274	3000	348	1274	3000	348	1274	3000	348	1274	3000	348			
RNP 0.30 DA	1340	4000	414	1340	4000	414	1340	4000	414	1340	4000	414			

CHANGES - REASONS

1. CHANGED TERMINAL ROUTE FROM RAFII TO AYKAY TO RAFII TO JOKEL - PER ATC/FPT REQUEST DUE TO STAR REDESIGN.
2. ADDED TERMINAL ROUTE JOKEL TO AYKAY COURSE/DISTANCE 151.37/2.10 AT ALT 6300 FT - AYKAY MOVED PER ATC/FPT REQUEST DUE TO STAR REDESIGN.
3. CHANGED TERMINAL ROUTE FROM AYKAY TO SAKOH TO AYKAY TO TAKOE - SAKOH FIX REMOVED FROM PROCEDURE DUE TO ATC/FPT STAR REDESIGN REQUEST.
4. ADDED TERMINAL ROUTE RUMBL TO ZENPO COURSE/DISTANCE 199.36/4.34 AT ALT 9000 FT - CREATED TO ATTACH APPROACH TO NEW JCKIE STAR PROCEDURE.
5. CHANGED TERMINAL ROUTE FROM EAGLZ TO RUXNN TO ZENPO TO RUXNN COURSE/DISTANCE 199.33/4.20 AT ALT 8000 FT - EAGLZ FIX REMOVED FROM PROCEDURE DUE TO ATC/FPT STAR REDESIGN REQUEST.
6. CHANGED PROFILE LINE 5 DIST TO THLD FROM 393 HAT: 1.05 TO 292 HAT: 0.73 - NEW LINE OF MINIMA ADDED WITH A LOWER HAT.
7. # TCH: 984.07 MSL (DO NOT CHART) REMOVED FROM ADDITIONAL FLIGHT DATA AND # REMOVED FROM TCH ON LINE 7 - NOT REQUIRED TO CHART PER NEW CRITERIA.
8. ADDED 20:1 IS CLEAR TO PROFILE LINE 7 - REQUIRED BY CRITERIA TO IDENTIFY WHETHER THE 34:1 AND 20:1 OBSTACLE ASSESSMENT SURFACES ARE CLEAR OR NOT ON RNAV PROCEDURES.
9. REMOVED CHART NOTE: GPS REQUIRED AND ADDED PBN REQUIREMENT NOTE: RNP AR APCH - ALL PBN PROCEDURES REQUIRE AN ANNOTATION OF THE PBN NAVIGATION SPECIFICATION (NAVSPEC) USED FOR THE NAVIGATION ON THE PROCEDURE.
10. CHANGED CHART NOTE: FROM FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 1°C (34°F) OR ABOVE 54°C (130°F) TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 1°C OR ABOVE 54°C - FAHRENHEIT TEMPERATURES REMOVED PER NEW CRITERIA.
11. CHANGED NOTE: FROM CHART SPEED ICON IN PLANVIEW AT RAFII, EAGLZ: MAX 240 KIAS TO CHART SPEED ICON IN PLANVIEW AT RAFII, RUMBL: MAX 240 KIAS - EAGLZ FIX REMOVED FROM PROCEDURE.
12. CHANGED INOPERATIVE NOTE FROM CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.30 ALL CATS VISIBILITY TO 1 1/4 SM TO CHART NOTE: FOR INOPERATIVE ALS, INCREASE RNP 0.15 VISIBILITY ALL CATS TO RVR 4500, RNP 0.18 VISIBILITY ALL CATS TO RVR 5500, RNP 0.30 VISIBILITY ALL CATS TO RVR 6000 - NEW LINES OF MINIMA ADDED AND NEW VISCHECK VALUES APPLIED.
13. CHANGED ADDITIONAL FLIGHT DATA: CHART MANDATORY 9000 AT EAGLZ TO CHART MANDATORY 10000 AT RUMBL - EAGLZ FIX REMOVED FROM PROCEDURE.
14. ADDED RNP 0.15 AND RNP 0.18 LINES OF MINIMA - PER FPT/ATC DISTRO PACKAGE REQUEST.
15. RNP 0.30 MINIMUMS: RAISED DA/HAT FROM 1319/393 TO 1340/414 - NEW MISSED APPROACH CONTROLLING OBSTACLE.
16. RNP 0.30 MINIMUMS: VISIBILITY ALL CATS LOWERED FROM RVR 4500 TO RVR 4000 - NEW VIS CHECK RESULTS.
17. CHANGED CHART PLANVIEW NOTE FROM AT AYKAY: (RNP 0.50) AND CHART PLANVIEW NOTE AT EAGLZ: (RNP 0.50) TO CHART PLANVIEW NOTE AT RAFII: (RNP 0.50) AND CHART PLANVIEW NOTE AT RUMBL: (RNP 0.50) - AYKAY FIX REALIGNED AND EAGLZ FIX REMOVED FROM PROCEDURE, RAFII AND RUMBL INITIAL SEGMENTS ARE LESS THAN STANDARD.
18. ADDED CHART PROFILE NOTE: SEE PLANVIEW FOR MULTIPLE IF LOCATIONS - NOTE REQUIRED FOR PROCEDURES WHICH CONTAIN MULTIPLE IF FIXES.
19. REMOVED ROUTE TYPE NOTES FROM ADDITIONAL FLIGHT DATA - NO LONGER REQUIRED.
20. ADDED "CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT GAREY ON V8-21 NORTHEAST BOUND" - AIRWAY EXCEEDS 90 DEGREE TURN REQUIREMENT. IAW 8260.54A PARA 2.7 AND 8260.19H 8-2-5.E.

10/17/19: THIS IS A CORRECTED COPY OF THE FORM APPROVED ON 09/09/19.

1. CHANGED CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW °C OR ABOVE 54°C TO CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, PROCEDURE NA BELOW 1°C OR ABOVE 54°C.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** SOCAL APP, AMGR, ONT TOWER

FLIGHT CHECKED BY
JAMES BRIAN ONIEAL

Digitally signed by
DONALD H LANIER

OFFICE
FIOG

DATE
09/04/2019

DEVELOPED BY
DONALD H. LANIER (MYRON DEBERRY)

Digitally signed by
DONALD H LANIER
Oct 23, 2019

OFFICE
AJV-A431

DATE
07/10/2019

APPROVED BY
GEORGE DAVIS

Digitally signed by
DONALD H LANIER
Oct 23, 2019

OFFICE
AJV-A430

DATE

TITLE
MANAGER

QUALITY
18
CHECKED