

US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

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TERMINAL ROUTES				MISSED APPROACH			
FROM	TO	COURSE AND DISTANCE	ALTITUDE				
LINDR (IAF)	CODIL (NOPT) (FB)	068.39 / 19.62	4000	LPV: DA LNAV/VNAV: DA LNAV: RW04			
ZOVNA (IAF)	CODIL (NOPT) (FB)	336.04 / 19.99	4000				
CODIL (IF/IAF)	WANUY (FB)	038.27 / 6.10	2800	CLIMB TO 4000 DIRECT YISTU AND HOLD.			
WANUY (FAF)	RW04 (MAP) (FO)	038.34 / 5.29					
RW04 (MAP)	1324 MSL	038.34		ADDITIONAL FLIGHT DATA: HOLD NE, RT, 218.53 INBOUND. FAS OBST: 1309 AAO 462233N/0925151W CHART 1219 TREE 462422N/0925018W. DISTANCE TO THLD FROM 250 HATH: 0.66 NM. WAAS CHANNEL # 82730 REFERENCE PATH ID: W04A LTP HAE: 299.6 M			
1324 MSL	YISTU (FO)		4000				

1. PT <u> </u> SIDE OF COURSE <u> </u> OUTBOUND <u> </u> FT WITHIN <u> </u> MILES OF <u> </u> (IAF)							
2. HOLD SW CODIL, RT, 038.27 INBOUND, 4000 FT. IN LIEU OF PT (IAF)							
3. FAC: <u>038.34</u> FAF: <u>WANUY</u> DIST FAF TO MAP: <u>5.29</u> THLD: <u>5.29</u>							
4. MIN. ALT: CODIL 4000, WANUY 2800							
5. DIST TO THLD FROM OM: <u> </u> MM: <u> </u> IM: <u> </u> 150 HAT: <u> </u> 100 HAT: <u> </u> GS ANT: <u> </u>							
6. MIN GS INCPT: <u>2800</u> GS ALT AT: <u>WANUY 2800</u> OM: <u> </u> MM: <u> </u> IM: <u> </u>							
7. GS ANGLE: <u>3.00</u> TCH: <u>40.0</u> 34:1 IS NOT CLEAR							
8. MSA FROM: <u>RW04 2900</u>							

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
LPV DA	1324	1	250	1324	1	250		NA			NA				
LNAV/VNAV DA	1527	1 1/2	453	1527	1 1/2	453		NA			NA				
LNAV MDA	1560	1	486	1560	1	486		NA			NA				
CIRCLING	1660	1	584	1660	1	584		NA			NA				

NOTES:
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F).
 CHART NOTE: STRAIGHT-IN MINIMUMS NA AT NIGHT.
 CHART NOTE: DME/DME RNP-0.3 NA.
 CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
 (SEE FORM 8260-10)

CITY AND STATE MOOSE LAKE, MN	ELEVATION: 1076 THRE: 1074 AIRPORT NAME: MOOSE LAKE CARLTON COUNTY	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMD'T NO./EFFECTIVE DATE: RNAV (GPS) RWY 4, ORIG 10 JANUARY 2013	SUP: AMD'T: NONE DATED
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QUALITY
9
CHECKED

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NOTES, (CONT.):

CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

CHART NOTE: BARO-VNAV NA WHEN USING COLQUET ALTIMETER SETTING.

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLOQUET ALTIMETER SETTING AND INCREASE ALL DA 77 FT AND ALL MDA 80 FT; INCREASE LPV ALL CATS VISIBILITY 1/8 MILE AND LNAV/VNAV ALL CATS VISIBILITY 3/8 MILE.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT LINDR ON V218 SOUTHBOUND.



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FLIGHT STANDARDS SERVICE - FAR PART 97.33

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FAS DATA BLOCK INFORMATIONDATA FIELDDATA

OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMZH
RUNWAY	RW04
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W04A
LTP/FTP LATITUDE	462454.9255N
LTP/FTP LONGITUDE	0924832.0065W
LTP/FTP ELLIPSOIDAL HEIGHT	+02996
FPAP LATITUDE	462602.7460N
FPAP LONGITUDE	0924708.5135W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1776
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0

CRC REMAINDER

6329F398

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03275
FPAP ORTHOMETRIC HEIGHT	+03275

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ARINC PACKET - 424-18 - RNAV (GPS)

[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KMZHK3FR04	ACODIL	010CODILK3EA0EE	AR	HF		03830040	+	04000	18000		A	JS
SUSAP	KMZHK3FR04	ALINDR	010LINDRK3EA0E	A	IF					18000		A	JS
SUSAP	KMZHK3FR04	ALINDR	020CODILK3EA0EE	B	010TF		06840196	+	04000			A	JS
SUSAP	KMZHK3FR04	AZOVNA	010ZOVNAK3EA0E	A	IF					18000		A	JS
SUSAP	KMZHK3FR04	AZOVNA	020CODILK3EA0EE	B	010TF		33600200	+	04000			A	JS
SUSAP	KMZHK3FR04	R	010CODILK3EA0E	I	IF			+	04000	18000		A	JS
SUSAP	KMZHK3FR04	R	020WANUYK3EA1E	F	051TF		03830061	+	02800		RW04	K3PGA	JS
SUSAP	KMZHK3FR04	R	020WANUYK3EA2WALPV			ALNAV/VNAV							JS
SUSAP	KMZHK3FR04	R	030RW04 K3PG0GY M	031TF			03830053		01114	-300		A	JS
SUSAP	KMZHK3FR04	R	040	0	M	CA	0383	+	01324			A	JS
SUSAP	KMZHK3FR04	R	050YISTUK3EA0EY		DF			+	04000			A	JS
SUSAP	KMZHK3FR04	R	060YISTUK3EA0EE	R	HM		21850040	+	04000			A	JS

[illegible][illegible]

MSA 1 2 3 4 5 6 7 8 9 0 1 2 3

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SUSAP KMZHK3SRW04 K3PG

0 18018002925

M

CITY AND STATE
MOOSE LAKE, MN

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ARINC SUMMARY - 424-18 - RNAV (GPS)

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	CODIL	CODIL	010	IAF	HF	R	FO		038.3(040.3T)	004.0	AA 04000	
	LINDR	LINDR	010	IAF	IF		FB					
	LINDR	CODIL	020		TF		FB	1.0	068.4(070.4T)	019.6	AA 04000	
	ZOVNA	ZOVNA	010	IAF	IF		FB					
	ZOVNA	CODIL	020		TF		FB	1.0	336.0(338.0T)	020.0	AA 04000	
		CODIL	010	FACF	IF		FB				AA 04000	
		WANUY	020	FAF	TF		FB	0.5	038.3(040.3T)	006.1	AA 02800	
		RW04	030	MAP	TF		FO	0.3	038.3(040.3T)	005.3	AT 01114	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		038.3(040.3T)		AA 01324	
	YISTU	050		DF		FO				AA 04000	
	YISTU	060		HM	R	FO		218.5(220.5T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CODIL	N461614.17	W0925910.50	N4616.236	W09259.175
	LINDR	N460942.34	W0932548.75	N4609.706	W09325.813
	WANUY	N462053.06	W0925329.13	N4620.884	W09253.486
	YISTU	N463403.20	W0923714.68	N4634.053	W09237.245
	ZOVNA	N455742.60	W0924823.98	N4557.710	W09248.400
	RW04	N462454.93	W0924832.01	N4624.916	W09248.534

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW04	01074	40

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