

US DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

RNAV - 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				
IYUDE (IAF)	COTYU (NOPT) (FB)	233.99 / 6.00	5500	LPV: DA LNAV/VNAV: DA LNAV: RW32  CLIMB TO 6700 DIRECT KAKGU AND LEFT TURN ON TRACK 233.78 TO HOZWU AND LEFT TURN ON TRACK 130.83 TO NIRYO AND HOLD.			
NIRYO (IAF)	COTYU (NOPT) (FB)	053.85 / 6.00	5500				
COTYU (IF/IAF)	EHGAW (FB)	323.92 / 6.01	5000				
EHGAW (FAF)	RW32 (MAP) (FO)	323.87 / 5.58		ADDITIONAL FLIGHT DATA: HOLD SW, RT, 053.85 INBOUND. FAS OBST: 3369 AAO 435829N/1030112W 3429 AAO 435722N/1025849W DISTANCE TO THLD FROM 200 HAT: 0.51 NM. CHART VDP AT 1.33 MILES TO RW32* *LNAV ONLY. WAAS CHANNEL # 93717 REFERENCE PATH ID: W32A LTP HAE: 941.2 M			
RW32 (MAP)	3360 MSL	323.87					
3360 MSL	KAKGU (FB)						
KAKGU	HOZWU (FB)	233.78 / 10.00					
HOZWU	NIRYO (FO)	130.83 / 18.04	6700				

  

1. PT        SIDE OF COURSE        OUTBOUND        FT WITHIN        MILES OF        (IAF)  
 2. HOLD SE COTYU, RT, 323.92 INBOUND, 5500 FT. IN LIEU OF PT (IAF)  
 3. FAC: 323.87 FAF: EHGAW DIST FAF TO MAP: 5.58 THLD: 5.58  
 4. MIN. ALT: COTYU 5500, EHGAW 5000  
 5. DIST TO THLD FROM OM:        MM:        IM:        150 HAT:        100 HAT:        GS ANT:         
 6. MIN GS INCPT: 5000 GS ALT AT: EHGAW 5000 OM:        MM:        IM:         
 7. GS ANGLE: 3.00 TCH: 54.0 34:1 IS CLEAR  
 8. MSA FROM:

MAG VAR: 8E
EPOCH YEAR: 2010

  

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	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200	3360	2400	200
LNAV/VNAV DA	3410	2400	250	3410	2400	250	3410	2400	250	3410	4000	250	3410	4000	250
LNAV MDA	3620	2400	460	3620	2400	460	3620	4000	460	3620	5000	460	3620	5000	460
CIRCLING	3660	1	456	3680	1	476	3680	1 1/2	476	3840	2	636	3960	2 3/4	756

  

NOTES:  
 CHART NOTE: CIRCLING TO RWY 5-23 NA AT NIGHT.  
 CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 42C (107F).  
 CHART NOTE: DME/DME RNP-0.3 NA.  
 (SEE FORM 8260-10)

CITY AND STATE  
RAPID CITY, SD

ELEVATION: 3204 TDZE: 3160  
 AIRPORT NAME:  
RAPID CITY RGNL

FACILITY IDENTIFIER:  
RNAV

PROCEDURE NO./AMDT NO./EFFECTIVE DATE:  
 RNAV (GPS) RWY 32, AMDT 1A  
 15 NOVEMBER 2012

SUP:  
 AMDT: 1  
 DATED 04/08/2010

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION  
**RNAV - STANDARD**  
**INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33**

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**NOTES, (CONT.):**

CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE ELLSWORTH AFB ALTIMETER SETTING AND INCREASE ALL DA 26 FEET AND ALL MDA 40 FEET AND INCREASE LNAV CAT E VISIBILITY 1/4 MILE.

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING ELLSWORTH AFB ALTIMETER SETTING.

CHART NOTE: FOR INOPERATIVE MALSR, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT D AND E VISIBILITY TO RVR 5000 AND LNAV CAT E VISIBILITY TO 1 1/2.

CHART NOTE: FOR INOPERATIVE MALSR, WHEN USING ELLSWORTH AFB ALTIMETER SETTING, INCREASE LPV CAT E VISIBILITY TO RVR 4000, LNAV/VNAV CAT D AND E VISIBILITY TO RVR 5000 AND LNAV CAT E VISIBILITY TO 1 3/4.

**TAA**

	<b>FROM</b>	<b>TO</b>	<b>ALT</b>
1.	234/30 CW 015/30 (NOPT)	COTYU (IF/IAF) (FB)	5500
	015/12 CW 054/12	COTYU (IF/IAF) (FB)	5500
2.	015/30 CW 054/30 (NOPT)	015/12 CW 054/12	8500
3.	054/30 CW 144/30	054/7 CW 144/7	9500
4.	054/7 CW 144/7	NIRYO (IAF) (FB)	6300
5.	144/30 CW 234/30	IYUDE (IAF) (FB)	5500



CITY AND STATE <b>RAPID CITY, SD</b>	ELEVATION: 3204	TDZE: 3160	FACILITY IDENTIFIER: <b>RNAV</b>	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: <b>RNAV (GPS) RWY 32, AMDT 1A</b> 15 NOVEMBER 2012	SUP:
	AIRPORT NAME:				AMDT: 1
	<b>RAPID CITY RGNL</b>				DATED: 04/08/2010

## U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV STANDARD INSTRUMENT APPROACH PROCEDURE  
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 KRAP  
RUNWAY RW32  
APPROACH PERFORMANCE DESIGNATOR 0  
ROUTE INDICATOR 0  
REFERENCE PATH DATA SELECTOR W32A  
REFERENCE PATH IDENTIFIER (APPROACH ID) 440158.0495N  
LTP/FTP LATITUDE 1030257.8005W  
LTP/FTP LONGITUDE +09412  
LTP/FTP ELLIPSOIDAL HEIGHT 440316.6000N  
FPAP LATITUDE 1030356.1200W  
FPAP LONGITUDE 00054.0  
THRESHOLD CROSSING HEIGHT (TCH) F  
TCH UNITS SELECTOR (METERS OR FEET USED) 03.00  
GLIDEPATH ANGLE (GPA) 106.75  
COURSE WIDTH AT THRESHOLD 0096  
LENGTH OFFSET 40.0  
HORIZONTAL ALERT LIMIT (HAL) 35.0  
VERTICAL ALERT LIMIT (VAL)

CRC REMAINDER

3FA29567

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE K3  
LTP ORTHOMETRIC HEIGHT +09579  
FPAP ORTHOMETRIC HEIGHT +09579

QUALITY  
CHECKED

CITY AND STATE RAPID CITY, SD	ELEVATION: 3204 TDZE: 3160 AIRPORT NAME: RAPID CITY RGNL	FACILITY IDENTIFIER: RNAV	PROCEDURE NO./AMDT NO./EFFECTIVE DATE: RNAV (GPS) RWY 32, AMDT 1A 15 NOVEMBER 2012	SUP: AMDT: 1 DATED: 04/08/2010
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[illegible][illegible]

SEGMENT	1	2	3	4	5	6	7	8	9	0	1	2	3
SUSAP	KRAPK3FR32	ACOTYU	010COTYUK3EA0EE	AR	HF		32390090	+	05500	18000		A	JS
SUSAP	KRAPK3FR32	AIYUDE	010IYUDEK3EA0E	A	IF					18000		A	JS
SUSAP	KRAPK3FR32	AIYUDE	020COTYUK3EA0EE	B	010TF		23400060	+	05500			A	JS
SUSAP	KRAPK3FR32	ANIRYO	010NIRYOK3EA0E	A	IF					18000		A	JS
SUSAP	KRAPK3FR32	ANIRYO	020COTYUK3EA0EE	B	010TF		05390060	+	05500			A	JS
SUSAP	KRAPK3FR32	R	010COTYUK3EA0E	I	IF			+	05500	18000		A	JS
SUSAP	KRAPK3FR32	R	020EHGAWK3EA1E	F	051TF		32390060	+	05000			A	JS
SUSAP	KRAPK3FR32	R	020EHGAWK3EA2WALPV		ALNAV/VNAV	ALNAV							JS
SUSAP	KRAPK3FR32	R	030RW32	K3PGOGY	M	031TF	32390056		03197		-300	A	JS
SUSAP	KRAPK3FR32	R	040	0	M	CA	3239	+	03360			A	JS
SUSAP	KRAPK3FR32	R	050KAKGUK3EA0E		DF							A	JS
SUSAP	KRAPK3FR32	R	060HOZWUK3EA0E		L010TFY		2338					A	JS
SUSAP	KRAPK3FR32	R	070NIRYOK3EA0EY		L010TFY		1308		06700			A	JS
SUSAP	KRAPK3FR32	R	080NIRYOK3EA0EE	R	HM		05390100	+	06700			A	JS

[illegible][illegible]

SUP:	
AMDT:	1
DATED:	04/08/2010

**U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION**  
**RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE**  
**FLIGHT STANDARDS SERVICES - FAR PART 97.33**

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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
	COTYU	COTYU	010	IAF	HF	R	FO		323.9(331.9T)	009.0	AA 05500	
	IYUDE	IYUDE	010	IAF	IF		FB					
	IYUDE	COTYU	020		TF		FB	1.0	234.0(242.0T)	006.0	AA 05500	
	NIRYO	NIRYO	010	IAF	IF		FB					
	NIRYO	COTYU	020		TF		FB	1.0	053.9(061.9T)	006.0	AA 05500	
		COTYU	010	FACF	IF		FB				AA 05500	
		EHGAW	020	FAF	TF		FB	0.5	323.9(331.9T)	006.0	AA 05000	
		RW32	030	MAP	TF		FO	0.3	323.9(331.9T)	005.6	AT 03197	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		323.9(331.9T)		AA 03360	
	KAKGU	050		DF		FB					
	HOZWU	060		TF	L	FB	1.0	233.8(241.8T)			
	NIRYO	070		TF	L	FO	1.0	130.8(138.8T)		AA 06700	
	NIRYO	080		HM	R	FO		053.9(061.9T)	010.0	AA 06700	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	COTYU	N435144.72	W1025524.02	N4351.745	W10255.400
	EHGAW	N435703.04	W1025919.17	N4357.051	W10259.320
	HOZWU	N440230.96	W1031906.70	N4402.516	W10319.112
	IYUDE	N435433.95	W1024804.64	N4354.566	W10248.077
	KAKGU	N440715.35	W1030653.73	N4407.256	W10306.896
	NIRYO	N434855.02	W1030242.71	N4348.917	W10302.712
	RW32	N440158.05	W1030257.80	N4401.968	W10302.963

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW32	03143	54



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