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

FROM	TO	COURSE AND DISTANCE	ALTITUDE
IYUDE (IAF)	COTYU (NOPT) (FB)	233.99 / 6.00	5500
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	
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

MISSED APPROACH

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.

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:

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

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)

@ CAT E 800-2 3/4
@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

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

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
[ ] YES [X] NO		ROUTINE

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
X		X	X	X	X	X RAP ATCT, RCA APP CON, ZDV, ARPT MGR, ST. AVIATION DIR.

FLIGHT CHECKED BY		
NAME: DANIEL CHARLES FAVORITE	FIFO AVN-200	DATE: 01/14/2010

DEVELOPED BY		
NAME: DAN CAIRNS	FIFO AJV-353	DATE: 09/04/2012

APPROVED BY		
NAME: LARRY H STROUT MANAGER	FIFO AJV-353	DATE:

CHANGES:

1. MISSED APPROACH CHANGED FROM: "CLIMB TO 6500 DIRECT KAKGU AND LEFT TURN ON TRACK 233.78 TO HOZWU AND LEFT TURN ON TRACK 130.83 TO NIRYO AND HOLD" TO "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".
2. CIRCLING CAT D MDA/HAA CHANGED FROM "3820/616" TO "3840/636".
3. UPDATED FAS DATA WITH UPDATED AVNIS INFO.
4. ADDED TERMINAL ROUTE DIST FROM KAKGU TO HOZWU 10.00 AND HOZWU TO NIRYO 18.04.

REASONS:

1. UPDATED CONTROLLING OBSTACLE.
2. NEW CONTROLLING OBSTACLE.
3. UPDATED AVNIS DATA.
4. IAW 8260.19D PARA 851B.

PDF EDIT:
1. ADDED (FAF) TO FIX EHGAW IN TERMINAL ROUTES.
2. ADDED "+06700" TO 8260-10 AND "06700" TO FLIGHT INSPECTION SUMMARY SHEET/MISSED APPROACH SECTION.
3. DELETED 020 FROM HOLDING LEG OF 8260-10.
4. DELETED RNP 2.0 FROM HOLDING LEG OF FLIGHT INSPECTION SUMMARY SHEET.

QUALITY CHECKED

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

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

	FROM	TO	ALT
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

QUALITY CHECKED 4

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

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER (specify) ☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

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 aiport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or in feet RVR.

FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KRAP
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	440158.0495N
LTP/FTP LONGITUDE	1030257.8005W
LTP/FTP ELLIPSOIDAL HEIGHT	+09412
FPAP LATITUDE	440316.6000N
FPAP LONGITUDE	1030356.1200W
THRESHOLD CROSSING HEIGHT (TCH)	00054.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0096
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	3FA29567

ADDITIONAL PATH POINT RECORD INFORMATION

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

QUALITY CHECKED 4

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

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
☐	☐	☐	☐	☐	☐	☐ _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	FIFO	DATE:
APPROVED BY		
NAME:	FIFO	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR 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 PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   COTYU K30    W     N43514472W102552402                      E0078     NAR           COTYU
        SUSAEAENRT   EHGAW K30    W     N43570304W102591917                      E0079     NAR           EHGAW
        SUSAEAENRT   HOZWU K30    W     N44023096W103190670                      E0081     NAR           HOZWU
        SUSAEAENRT   IYUDE K30    W     N43543395W102480464                      E0078     NAR           IYUDE
        SUSAEAENRT   KAKGU K30    W     N44071535W103065373                      E0080     NAR           KAKGU
        SUSAEAENRT   NIRYO K30    W     N43485502W103024271                      E0079     NAR           NIRYO

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRAPK3ARAP     0     087YHN44024320W103032650E008003204         1800018000C    MNAR    RAPID CITY RGNL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        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 K3PG0GY 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

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRAPK3GRW32    0087013238 N44015805W103025780+0600    +0941203143000054150I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KRAPK3PR32   RW32 001 0000W32A0N4401580495W10302578005+094120300N4403166000W1030356120010675009600054 0F4003503FA29567
        SUSAP KRAPK3PR32   RW32 002E      +09579+09579LPV       93717
```

QUALITY CHECKED

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

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

U.S. DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE

FLIGHT STANDARDS SERVICES - **FAR 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 - 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

QUALITY CHECKED

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

ALL AFFECTED PROCEDURES REVIEWED?	COORDINATES OF FACILITIES	REQUIRED EFFECTIVE DATE
☐ YES ☐ NO		

COORDINATED WITH:

ATA ☐ AAT ☐ ALPA ☐ APA ☐ AOPA ☐ NBAA ☐ OTHER ☐ (specify) _____

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME:	NFPG	DATE:
APPROVED BY		
NAME:	NFPG	DATE:

CHANGES:

REASONS:

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
STRAIGHT-IN AREA	234/30 CW 015/30	COTYU	1. TOWER (46-000627)	433108.03N/1024158.86W	3808 (2C)	1000	AT692	5500
			2. TERRAIN	433551.00N/1030709.00W	3521 (3500)		AS1500	5000
STRAIGHT-IN AREA	015/12 CW 054/12	COTYU	3. TOWER (46-000049)	434833.00N/1031048.00W	3788 (1D)	1000	AT712	5500
			4. TERRAIN	435142.00N/1030433.00W	3390 (3400)		AS1500	4900
STRAIGHT-IN AREA	015/30 CW 054/30	015/12 CW 054/12	5. AAO	434140.00N/1033221.20W	6460 (6A)	2000		8500
			6. TERRAIN	434140.00N/1033221.20W	6260 (6300)		AS1500	7800
LEFT BASE AREA	054/30 CW 144/30	054/7 CW 144/7	7. AAO	435159.70N/1033150.80W	7442 (4E)	2000		9500
			8. TERRAIN	435159.70N/1033150.80W	7242 (7200)		AS1500	8700
LEFT BASE AREA	054/7 CW 144/7	NIRYO	9. TOWER (46-000728)	434912.85N/1031424.95W	3975 (4D)	1000	DG1325	6300
			10. TERRAIN	434836.00N/1031418.00W	3718 (3700)		AS1500	5200
RIGHT BASE AREA	144/30 CW 234/30	IYUDE	11. AAO	440842.00N/1031327.00W	3783 (4E)	1000	AT717	5500
			12. TERRAIN	440842.00N/1031327.00W	3583 (3600)		AS1500	5100
INITIAL	IYUDE	COTYU	13. AAO	435233.00N/1025445.00W	3449 (4E)	1000	AT1051	5500
			14. TERRAIN	435233.00N/1025445.00W	3249 (3200)		AS1500	4700
2. HOLD-IN-LIEU-OF-PT	COTYU	P-14	21. AAO	435600.00N/1030454.00W	3701 (4E)	1000	AT799	5500
			22. TERRAIN	435600.00N/1030454.00W	3501 (3500)		AS1500	5000
3. MISSED APPROACH MAP:	DA / DA / RW32	NIRYO				ASC		6700
			23. TOWER (46-000040)	440407.00N/1031505.00W	4401 (4D)	1000		5500
ELEV:	3185/3157/3370		24. TERRAIN	440312.00N/1032312.00W	4646 (4600)		AS1500	6100
			25. TREE	440430.51N/1030344.01W	3354 (2C)	300		3660
			26. TREE	440439.74N/1030348.83W	3364 (2C)	300		3680
			27. TREE	440453.64N/1030401.79W	3374 (2C)	300		3680
			28. TWR (46-000664)	440505.59N/1030423.27W	3527 (1A)	300		3840
			29. AAO	440523.70N/1030857.23W	3659 (2C)	300		3960

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	456
CATEGORY B	1.5 NM	450	476
CATEGORY C	1.7 NM	450	476
CATEGORY D	2.3 NM	550	636
CATEGORY E	4.5 NM	550	756

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
RAPID CITY, SD	ELEVATION: 3204 AIRPORT NAME: RAPID CITY RGNL	RNAV	RNAV (GPS) RWY 32, AMDT 1A	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
RAP TOWER RCA APP CON		N W S	OTHER: ASOS	SOURCE: KRAP
		F A A		DISTANCE:
		A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION: KRAP			ADJUSTMENT: 0

4. MONITOR STATUS		
PRIMARY NAVAID:		
MONITOR POINT:		
HRS OPTN:	CAT 1	
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	
	ALS
	(S) SALS
X	MALSR 32 (PCL)
X	HIRL 14 (PCL), 32 (PCL)
X	MIRL 05 (PCL), 23 (PCL)
X	REIL 14 (PCL)
	TDZ
	C/LINE
X	OTHER (SPECIFY) PAPI-4L 05 (PCL), 23 (PCL), 14 (PCL), 32 (PCL)

6. RUNWAY MARKINGS	
BASIC	BSC-F 05, 23
ALL WEATHER	PIR-G 14, 32
INSTRUMENT	

7. RUNWAY VISUAL RANGE	
APPROACH	32
MIDFIELD	
ROLL OUT	

8. GLIDE PATH		
GP ANGLE: 3.00	ELEV RWY THRESHOLD: 3142.8	
DISTANCE FROM RWY:	ELEV GP ANTENNA:	
	THRESHOLD CROSSING HEIGHT: 54.0	

9. FINAL APPROACH COURSE AIMING			
	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY:	DATE:
DAN CAIRNS	09/04/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

VGSI 3.00/54

BLOCK 2: HRS OPTN: 24

BLOCK 3: ALTIMETER SETTING
SOURCE: KRAP/KRCA
DISTANCE: ON ARPT/6.31
ADJUSTMENT: -/25.16
SERVICE A: YES/YES
HOURS OF OPERATION: 24/BACKUP

RASS PRESSURE PATTERNS SAME
KRAP 3204, KRCA 3280
RA= 25.2

NO ADDITIONAL AIRSPACE REQUIRED.

INTERMEDIATE CONTROLLING OBSTACLE AND TERRAIN SAME FOR ALL SEGMENTS.

LPV SURFACE 34:1

LNAV/VNAV INNER SURFACE: 23.4:1
OUTER SURFACE: 34:1

ISA DEVIATION: -30

AVERAGE VEGETATION HEIGHT 25 FT.

QUALITY CHECKED 4

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
INITIAL	NIRYO	COTYU	15. AAO	435142.00N/1030433.00W	3590 (4E)	1000	AT910	5500
			16. TERRAIN	434657.00N/1025936.00W	3357 (3400)		AS1500	4900
INTERMEDIATE	COTYU (IF/IAF)	EHGAW	17. AAO	435502.10N/1025857.40W	3657 (6A)	500		4200
			18. TERRAIN	435502.10N/1025857.40W	3457 (3500)		AS1500	5000
FINAL: LPV	EHGAW	RW32				ASC		3360/200
FINAL: LNAV/VNAV	EHGAW	RW32	19. RW32	440158.05N/1030257.80W	3160 (1A)	PDA		3410/250
FINAL: LNAV	EHGAW	RW32	20. AAO	435829.17N/1030112.43W	3369 (2C)	250		3620

3. MISSED APPROACH	
MAP:	
ELEV:	

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	
CATEGORY B	1.5 NM	450	
CATEGORY C	1.7 NM	450	
CATEGORY D	2.3 NM	550	
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES

PRIMARY NAVAID:

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A

CITY AND STATE	ELEVATION: 3204 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
RAPID CITY, SD	RAPID CITY RGNL	RNAV	RNAV (GPS) RWY 32, AMDT 1A	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:			2. WEATHER SERVICE			3. ALTIMETER SETTING
SATISFACTORY ON:				N W S	OTHER:	SOURCE:
				F A A		DISTANCE:
				A / C		HOURS REMOTE OPERATION:
	V H F	U H F	H F	LOCATION:		ADJUSTMENT:

4. MONITOR STATUS	PRIMARY NAVAID:		
	MONITOR POINT:		
	HRS OPTN:	CAT 1	
		CAT 3	

5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
		HIRL
		MIRL
		REIL
		TDZ
		C/LINE
		OTHER (SPECIFY)

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:

9. FINAL APPROACH COURSE AIMING		RUNWAY THRESHOLD	FT. FROM THRESHOLD
		ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

PART D - PREPARED BY:	DATE:
TITLE:	OFFICE:

PART C - REMARKS:

RADIO FIX AND HOLDING DATA RECORD

NAME: NIRYO **STATE:** SD **COUNTRY:** US

LATITUDE/LONGITUDE: 434855.02N/1030242.71W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** NO CHANGE

HOLDING: **HOLDING TYPE OF ACTION:** MODIFY

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	LEG LENGTH DME	HOLDING ALTITUDES MIN	HOLDING ALTITUDES MAX	TEMPLATES MIN	TEMPLATES MAX
1	SW		WP	233.85	053.85	R		10	6700	10000	15	16

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	310	TOWER (46-000230)	434440.00N/1032854.00W	6378	5E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 32		1	KRAP	RAPID CITY	SD (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 02/07/2013

REASON FOR REVISION:
UPDATED CONTROLLING OBSTACLE INFO.
HOLDING MIN ALTITUDE CHANGED FROM 6500 TO 6700.

DEVELOPED BY: **DATE:** 09/04/2012 **OFFICE:** AJV-353 **NAME:** DAN CAIRNS

APPROVED BY: **DATE:** **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZDV
ATC FACILITY: RAP ATCT, RAP APCH
OTHER:

QUALITY CHECKED