Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/18/2008	Task #: 2008061719757337002	Request #: 20080617197573
Procedure: RNAV (GPS) RWY 32 ORIG		Airport ID: KMVE	Airport: MONTEVIDEO-CHIPPEWA COUNTY		Reimbursable #:
City: MONTEVIDEO	ST: MN	GPS #:		Estimated Chart Date: 11/15/2012	FICO #:
Fac ID: MVE	Fac. Type: LPV Proc-S	Specialist: SUE CRUMB			

P2 MAG VAR

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	03/23/2012	08/01/2012	JILL OLSON	
QA:	08/01/2012	08/03/2012	RICHELLE ADDINGTON	
Liaison:	08/03/2012		K. Spurlin	ELECTRONIC FILE - MAGVAR - REPLACEMENT 8/3/12

Procedure Comments:

Remark Type: INFORMATION

PKG 3 of 3

MONTEVIDEO, MN MONTEVIDEO-CHIPPEWA COUNTY (KMVE) RNAV (GPS) RWY 32, ORIG (LPV) ENROUTE-NO FC: 9.18.12 PUB: 11.15.12
ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): WUMPI, ORIG; YIBUG, ORIG; ZARTU, ORIG; ZATVU, ORIG;
(INFO ONLY) FITAS-INT, REV 3; REDWOOD FALLS (RWF) VDME, REV 15; RISLE-INT, REV 1.
FLCK NOTE: 4D ACCURACY CODE EVAL REQUESTED, SEE 8260-9.
REPLACEMENT 8/3/12: ALL DOCS
CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

WAAS CH 86430 W32A	APP CRS 321°	Rwy ldg 3995 THRE 1020 Apt Elev 1035

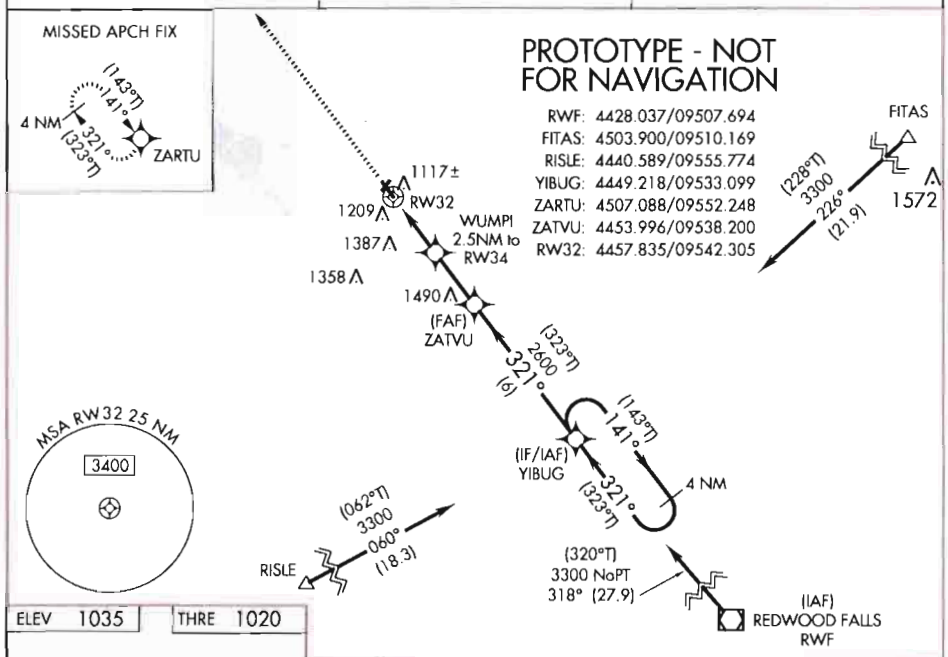
RNAV (GPS) RWY 32

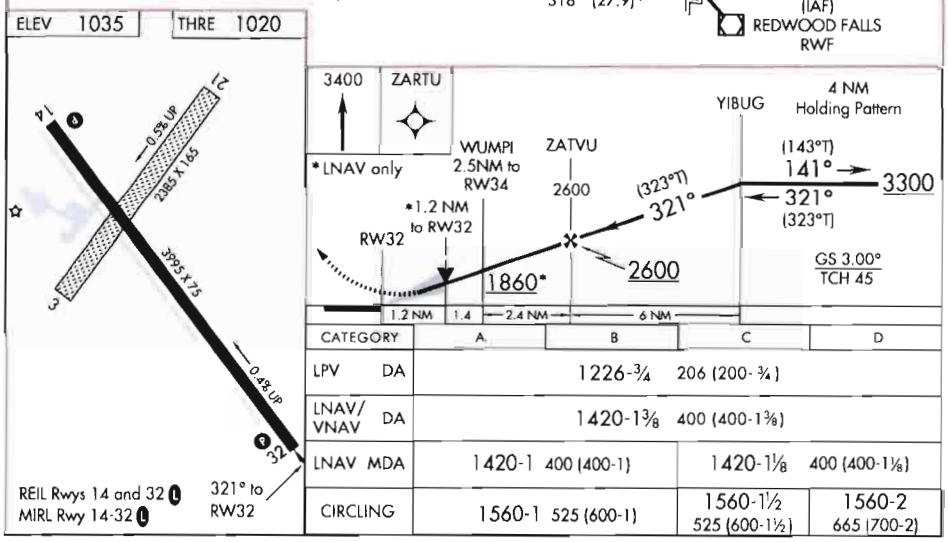
MONTEVIDEO-CHIPPEWA COUNTY (MVE)

Circling to Rwy 14 NA at night. Baro-VNAV NA when using Granite Falls altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -30°C (-22°F) or above 54°C (130°F). When local altimeter setting not received, use Granite Falls altimeter setting and increase all DA 36 feet and MDA 40 feet and increase LNAV/VNAV visibility all Cats ⅛ mile, increase LNAV visibility Cats C and D ⅛ mile, and increase Circling visibility cat D ¼ mile. DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 3400 direct ZARTU and hold.

AWOS-3	MINNEAPOLIS CENTER	UNICOM
111.6	125.5 323.1	122.8 (CTAF) L





CATEGORY		A	B	C	D
LPV	DA	1226-¾ 206 (200-¾)			
LNAV/VNAV	DA	1420-1⅜ 400 (400-1⅜)			
LNAV	MDA	1420-1 400 (400-1)		1420-1⅛ 400 (400-1⅛)	
CIRCLING		1560-1 525 (600-1)		1560-1½ 525 (600-1½)	1560-2 665 (700-2)

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
FITAS	YIBUG (FO)	226.10 / 21.93	3300
RISLE	YIBUG (FO)	059.77 / 18.31	3300
RWF VOR/DME (IAF)	YIBUG (NOPT) (FB)	317.56 / 27.89	3300
YIBUG (IF/IAF)	ZATVU (FB)	320.87 / 6.00	2600
ZATVU (FAF)	WUMPI/2.50 NM TO RW32 (FB)	320.81 / 2.32	
WUMPI/2.50 NM TO RW32	RW32 (MAP) (FO)	320.78 / 2.50	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW32

CLIMB TO 3400 DIRECT ZARTU AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD SE YIBUG, RT, 320.87 INBOUND, 3300 FT. IN LIEU OF PT (IAF)
3. FAC: 320.81 FAF: ZATVU DIST FAF TO MAP: 4.82 THLD: 4.82
4. MIN. ALT: YIBUG 3300, ZATVU 2600, WUMPI/2.50 NM TO RW32 1860*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2600 GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 45.0 34:1 IS CLEAR
8. MSA FROM: RW32 3400

ADDITIONAL FLIGHT DATA:
HOLD NW, RT, 140.64 INBOUND.
CHART FAS OBST: 1117 TREE 445808N/0954146W
CHART: 1211 TWR 445602N/0953939W
FAS OBS: 1159 TREE 445800N/0954139W
DISTANCE TO THLD FROM 206 HATH: 0.51 NM.
CHART VDP AT 1.18 MILES TO RW32*
*LNAV ONLY.
WAAS CHANNEL # 86430
REFERENCE PATH ID: W32A
LTP HAE: 284.5 M

MAG VAR: 2E EPOCH YEAR: 2015

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	1226	3/4	206	1226	3/4	206	1226	3/4	206	1226	3/4	206			
LNAV/VNAV DA	1420	1 3/8	400	1420	1 3/8	400	1420	1 3/8	400	1420	1 3/8	400			
LNAV MDA	1420	1	400	1420	1	400	1420	1 1/8	400	1420	1 1/8	400			
CIRCLING	1560	1	525	1560	1	525	1560	1 1/2	525	1700	2	665			

NOTES:
CHART NOTE: CIRCLING TO RWY 14 NA AT NIGHT.
CHART NOTE: BARO-VNAV NA WHEN USING GRANITE FALLS ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -30C (-22F) OR ABOVE 54C (130F).
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AMDT: NONE
				DATED

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] **AGL-220, ZMP ARTCC, PNM AFSS, AMGR.**

FLIGHT CHECKED BY		
NAME:	FIFO **FIOG**	DATE:
DEVELOPED BY		
NAME: **TERENCE D. SHARP (ELIZABETH WHEATLEY)**	FIFO **AJV-351**	DATE: **04/27/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

REASONS:

THIS IS AN ORIGINAL PROCEDURE.

12/17/2012: THIS IS AN UPDATED COPY OF THE FORM DEVELOPED ON 04/27/2012.
1. CHANGED ARINC RECORD 8260-10 PAGES TO REFLECT RWY 32 DATA VICE RWY 14 DATA.

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.

TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW32 (MAP)	1226 MSL	320.78	
1226 MSL	ZARTU (FO)		3400

NOTES, (CONT.):
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE GRANITE FALLS ALTIMETER SETTING AND INCREASE ALL DA 36 FEET AND MDA 40 FEET AND INCREASE LNAV/VNAV VISIBILITY ALL CATS 1/8 MILE, INCREASE LNAV VISIBILITY CATS C AND D 1/8 MILE, AND INCREASE CIRCLING VISIBILITY CAT D 1/4 MILE.
CHART NOTE: DME/DME RNP-0.3 NA.

QUALITY 6 CHECKED

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AMDT: NONE
				DATED:

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:

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KMVE
RUNWAY	RW32
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W32A
LTP/FTP LATITUDE	445750.1095N
LTP/FTP LONGITUDE	0954218.3055W
LTP/FTP ELLIPSOIDAL HEIGHT	+02845
FPAP LATITUDE	445901.0300N
FPAP LONGITUDE	0954334.2800W
THRESHOLD CROSSING HEIGHT (TCH)	00045.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1536
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	9AF3E340

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03108
FPAP ORTHOMETRIC HEIGHT	+03108

QUALITY 6 CHECKED

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AMDT: NONE
				DATED:

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**

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ARINC PACKET - 424-18 - RNAV (GPS)

```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAD        RWF   K3011330VDHA N44280219W095074163    N44280219W095074163E0070010612     NARREDWOOD FALLS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   FITAS K30    C   L N45035400W095101015                      E0022     NAR           FITAS
        SUSAEAENRT   RISLE K30    R   L N44403532W095554642                      E0029     NAR           RISLE
        SUSAEAENRT   WUMPI K30    W     N44555069W095401054                      E0026     NAR           WUMPI
        SUSAEAENRT   YIBUG K30    W     N44491288W095330630                      E0025     NAR           YIBUG
        SUSAEAENRT   ZARTU K30    W     N45070528W095521490                      E0028     NAR           ZARTU
        SUSAEAENRT   ZATVU K30    W     N44535976W095381202                      E0026     NAR           ZATVU

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMVEK3AMVE     0     039YHN44580908W095423732E002001035         1800018000C    MNAR    MONTEVIDEO-CHIPPEWA COUNTY

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMVEK3FR32   AFITAS 010FITASK3EA0E       IF                                          18000                A JS
        SUSAP KMVEK3FR32   AFITAS 020YIBUGK3EA0EY   020TF                    22610219    + 03300                         A JS
        SUSAP KMVEK3FR32   AFITAS 030YIBUGK3EA0EE AR   HF                    32090040    + 03300                         A JS
        SUSAP KMVEK3FR32   ARISLE 010RISLEK3EA0E       IF                                          18000                A JS
        SUSAP KMVEK3FR32   ARISLE 020YIBUGK3EA0EY   020TF                    05980183    + 03300                         A JS
        SUSAP KMVEK3FR32   ARISLE 030YIBUGK3EA0EE AR   HF                    32090040    + 03300                         A JS
        SUSAP KMVEK3FR32   ARWF   010RWF  K3D 0V  A    IF                                          18000                A JS
        SUSAP KMVEK3FR32   ARWF   020YIBUGK3EA0EE B 010TF                    31760279    + 03300                         A JS
        SUSAP KMVEK3FR32   R      010YIBUGK3EA0E  I    IF                                + 03300    18000                A JS
        SUSAP KMVEK3FR32   R      020ZATVUK3EA1E  F 051TF                    32090060    + 02600                RW32  K3PGA JS
        SUSAP KMVEK3FR32   R      020ZATVUK3EA2WALPV       ALNAV/VNAV ALNAV                                                JS
        SUSAP KMVEK3FR32   R      021WUMPIK3EA0E S  031TF                    32080023    V 0186001861        -300         A JS
        SUSAP KMVEK3FR32   R      030RW32 K3PG0GY M 031TF                    32080025      01065             -300         A JS
        SUSAP KMVEK3FR32   R      040         0  M     CA                    3208        + 01226                         A JS
        SUSAP KMVEK3FR32   R      050ZARTUK3EA0EY      DF                                + 03400                         A JS
        SUSAP KMVEK3FR32   R      060ZARTUK3EA0EE  R   HM                    14060040    + 03400                         A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMVEK3GRW32    0039953208 N44575011W095421831+0400    +02845010200000045075R
```

QUALITY CHECKED 4

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: **MONTEVIDEO-CHIPPEWA COUNTY**	**RNAV**	**RNAV (GPS) RWY 32, ORIG**	AMDT: **NONE**
				DATED:

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:

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```
                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMVEK3PR32   RW32 001 0000W32A0N4457501095W09542183055+028450300N4459010300W09543342800106751536000450F4003509AF3E340
        SUSAP KMVEK3PR32   RW32 002E      +03108+03108LPV       86430

                 1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        --------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMVEK3SRW32 K3PG               0   18018003425                                                                          M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AMDT: NONE
				DATED:

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**

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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
	FITAS	FITAS	010		IF		FB					
	FITAS	YIBUG	020		TF		FO	2.0	226.1(228.1T)	021.9	AA 03300	
	FITAS	YIBUG	030	IAF	HF	R	FO		320.9(322.9T)	004.0	AA 03300	
	RISLE	RISLE	010		IF		FB					
	RISLE	YIBUG	020		TF		FO	2.0	059.8(061.8T)	018.3	AA 03300	
	RISLE	YIBUG	030	IAF	HF	R	FO		320.9(322.9T)	004.0	AA 03300	
	RWF	RWF	010	IAF	IF		FB					
	RWF	YIBUG	020		TF		FB	1.0	317.6(319.6T)	027.9	AA 03300	
		YIBUG	010	FACF	IF		FB				AA 03300	
		ZATVU	020	FAF	TF		FB	0.5	320.9(322.9T)	006.0	AA 02600	
		WUMPI	021	SDF	TF		FB	0.3	320.8(322.8T)	002.3	AA 01860 GS 01861	
		RW32	030	MAP	TF		FO	0.3	320.8(322.8T)	002.5	AT 01065	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		320.8(322.8T)		AA 01226	
	ZARTU	050		DF		FO				AA 03400	
	ZARTU	060		HM	R	FO		140.6(142.6T)	004.0	AA 03400	

POINT DATA

WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
RWF	N442802.19	W0950741.63	N4428.037	W09507.694
FITAS	N450354.00	W0951010.15	N4503.900	W09510.169
RISLE	N444035.32	W0955546.42	N4440.589	W09555.774
WUMPI	N445550.69	W0954010.54	N4455.845	W09540.176
YIBUG	N444912.88	W0953306.30	N4449.215	W09533.105
ZARTU	N450705.28	W0955214.90	N4507.088	W09552.248
ZATVU	N445359.76	W0953812.02	N4453.996	W09538.200
RW32	N445750.11	W0954218.31	N4457.835	W09542.305

RUNWAY DATA

RWY	THRESHOLD ELEVATION	TCH
RW32	01020	45

QUALITY CHECKED

CITY AND STATE	ELEVATION: 1035 THRE: 1020	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
MONTEVIDEO, MN	AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AMDT: NONE
				DATED:

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.
FEEDER	FITAS	YIBUG	1. TOWER (27-001696)	445818.54N/0951457.73W	1572 (2C)	1000	AT728	3300
			2. TERRAIN	444927.00N/0952942.00W	1158 (1200)		AS1500	2700
FEEDER	RISLE	YIBUG	3. TOWER (27-000251)	444817.00N/0953450.00W	1343 (4D)	1000	AT957	3300
			4. TERRAIN	444703.00N/0953300.00W	1131 (1100)		AS1500	2600
INITIAL	RWF VOR/DME	YIBUG	5. WINDMILL (27-002448)	443005.90N/0951032.20W	1433 (5D)	1000	AT867	3300
			6. TERRAIN	444927.00N/0952942.00W	1158 (1200)		AS1500	2700
INTERMEDIATE	YIBUG (IF/IAF)	ZATVU	7. TOWER (27-001372)	445124.00N/0953753.00W	1524 (5D)	500		2100
			8. TERRAIN	445036.00N/0953709.00W	1105 (1100)		AS1500	2600
FINAL: LPV	ZATVU	RW32				ASC	MA6	1226/206
FINAL: LNAV/VNAV	ZATVU	RW32	9. TREE (KMVET0290)	445808.00N/0954145.96W	1117 (1A)	23.48:1	MA122	1420/400
FINAL: LNAV	ZATVU	WUMPI/2.50 NM TO RW32	10. AAO	445412.98N/0953918.47W	1540 (2C)	250	DG34 RA36	1860
2. HOLD-IN-LIEU-OF-PT	YIBUG		7. TOWER (27-001372)	445124.00N/0953753.00W	1524 (5D)	1000	AT776	3300
			12. TERRAIN	444927.00N/0952942.00W	1158 (1200)		AS1500	2700
3. MISSED APPROACH MAP:	DA / DA / RW32	ZARTU	17. TREE (KMVET0040)	445745.26N/0954226.31W	1114 (1A)	ASC		3400
			13. TOWER (27-002039)	450720.00N/0955401.00W	1330 (4D)	1000		2400
ELEV:	1058/1259/1320		14. TERRAIN	450848.00N/0954927.00W	1103 (1100)		AS1500	2600
4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL					
CATEGORY A	1.3 NM	350	525	15. TOWER (27-001796)	445702.76N/0954251.00W	1209 (5D)	300	AC50	1560
CATEGORY B	1.5 NM	450	525	15. TOWER (27-001796)	445702.76N/0954251.00W	1209 (5D)	300	AC50	1560
CATEGORY C	1.7 NM	450	525	15. TOWER (27-001796)	445702.76N/0954251.00W	1209 (5D)	300	AC50	1560
CATEGORY D	2.3 NM	550	665	16. TOWER (27-000268)	445559.80N/0954228.81W	1387 (2C)	300		1700
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW32

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (27-000920)	314/ 17.5	2318 (5D)	3400					

QUALITY CHECKED 6

CITY AND STATE	ELEVATION: 1035 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
MONTEVIDEO, MN	MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZMP ARTCC PNM FSS	[ ] N W S [ ] F A A [ ] A / C OTHER: AWOS-3	SOURCE: KMVE / KGDB DISTANCE: 0 / 14.59 HOURS REMOTE OPERATION: 24 / BACKUP
SATISFACTORY ON: [X] V H F [X] U H F [ ] H F	LOCATION:	ADJUSTMENT: 0 / 36

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 14 (PCL), 32 (PCL)
	X	REIL 14 (PCL), 32 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 14 (PCL), 32 (PCL)
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 14, 32
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 1019.6
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 45.0
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD — FT. FROM THRESHOLD
	X	ON CENTERLINE — FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: TERENCE D. SHARP (ELIZABETH WHEATLEY)	DATE: 04/27/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-351

PART C - REMARKS:

TERPS PARAGRAPH 289 APPLIED TO 1211 TWR
445602N/0953939W

5 YR TEMP DATA NOT AVAILABLE.
USED STANDARD -30 ISA DEVIATION.

RASS PRESSURE PATTERNS SAME
KMVE 1034.5, KGDB 1047.5
RA = 35.38.
SEE ATTACHED AIRSPACE LETTER.

VEGETATION HEIGHT WITHIN 5 NM 100' PER FPO.
RWY 3/21 UNMARKED TURF RWY

KMVE AND KGDB ON SERVICE A
VGSI DATA: 3.00/25

LPV SURFACE: 34:1
LNAV/VNAV:
INNER SURFACE 23.48:1

TERPS, VOLUME 1, "VISUAL PORTION OF FINAL"
PENETRATIONS:
20:1 PENETRATIONS (OST, LAT/LONG, MSL PENT):

PENETRATION RWY 3:
KMVET0301 445757.12N-0954304.21W 27.09
PENETRATION RWY 14:
KMVET0248 445827.65N-0954254.35W 4.02

REQUEST 4D ACCURACY CODE FROM FLIGHT CHECK FOR MISSED OBSTACLE 27-002039 (MAP #12)
(450720.00N-0955401.00W) 1330 MSL.

PARA 289 APPLIED TO 1211 TOWER 445602N/0953939W

QUALITY 6 CHECKED

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
FINAL: LNAV STEPDOWN	WUMPI/2.50 NM TO	RW32	11. TREE	445800.26N/0954139.06W	1159 (2C)	250		1420
	RW32							

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							

QUALITY CHECKED 6

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
MONTEVIDEO, MN	ELEVATION: 1035 AIRPORT NAME: MONTEVIDEO-CHIPPEWA COUNTY	RNAV	RNAV (GPS) RWY 32, ORIG	AGL

PART B - SUPPLEMENTAL DATA

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

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN: CAT 1	
	HRS OPTN: 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: WUMPI **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 445550.69N/0954010.54W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 32			KMVE	MONTEVIDEO	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 05/14/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (ELIZABETH WHEATLEY)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 6 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: YIBUG **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 444912.88N/0953306.30W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	SE		WP	140.87	320.87	R		4	3300	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	230	TOWER (27-001372)	445124.00N/0953753.00W	1524	5D

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 14		1	KMVE	MONTEVIDEO	MN (US)
IAP	RNAV (GPS) RWY 32		1	KMVE	MONTEVIDEO	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/19/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (ELIZABETH WHEATLEY)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 6 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZARTU **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 450705.28N/0955214.90W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

HOLDING: **HOLDING TYPE OF ACTION:** ESTABLISH

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	NW		WP	320.64	140.64	R		4	3300	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-000920)	451003.00N/0960002.00W	2318	5D

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 14		1	KMVE	MONTEVIDEO	MN (US)
IAP	RNAV (GPS) RWY 32		1	KMVE	MONTEVIDEO	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/13/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (ELIZABETH WHEATLEY)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 6 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZATVU **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 445359.76N/0953812.02W **TYPE:** WP

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** ESTABLISH

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 32			KMVE	MONTEVIDEO	MN (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 09/20/2012

DEVELOPED BY: **DATE:** 04/23/2012 **OFFICE:** AJV-351 **NAME:** TERENCE SHARP (ELIZABETH WHEATLEY)

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 6 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: FITAS **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 450354.00N/0951010.15W **TYPE:** WP, INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	REDWOOD FALLS	RWF	VOR/DME	H	350.20	357.20	35.91	35.91		3500	17500
2	DARWIN	DWN	VORTAC	L	260.72	267.72	30.46	30.46		3000	17500

HOLDING: **HOLDING TYPE OF ACTION:** NO CHANGE

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	N	RWF	VOR/DME	350.21	170.21	R	1		3500	6000	6	7

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001375)	450123.00N/0951558.00W	1570	5D

HOLDING RESTRICTIONS:
HOLD PAT 1: ATC REQUEST.
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V175	1, 2				(US)
EN ROUTE	V78	1, 2				(US)
IAP	RNAV (GPS) RWY 15			KHCD	HUTCHINSON	MN (US)
IAP	RNAV (GPS) RWY 13			KLJF	LITCHFIELD	MN (US)
IAP	RNAV (GPS) RWY 32			KMVE	MONTEVIDEO	MN (US)
IAP	VOR RWY 14	1, 2		KMVE	MONTEVIDEO	MN (US)
IAP	ILS OR LOC RWY 13	1, 2		KBDH	WILLMAR	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
ADDED DIST FROM FAC TO FACILITY 1,2.
CHANGED FAC 1 TRUE BRG FROM 357.21 TO 357.20.
UPDATED CONTROLLING OBSTACLE IDENT NUMBER FOR HOLDING.
ADDED PRECIPITOUS TERRAIN EVAL NOTE.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 04/07/2010 **OFFICE:** AVN-120 **NAME:** JOSE ALFONSO (DAN POWELL)

APPROVED BY: **DATE:** 07/06/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY 6 CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: REDWOOD FALLS VOR/DME **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 442802.19N/0950741.63W **TYPE:**

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

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	FEET	MRA	MAA
1	REDWOOD FALLS	RWF	VOR/DME	H							45000

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

PATTERNS:

PAT	DIR	IDENT	TYPE	RAD/CRS/BRG	CRS INBOUND	TURN (L OR R)	LEG LENGTH TIME	DME	HOLDING ALTITUDES MIN	MAX	TEMPLATES MIN	MAX
1	S	RWF	VOR/DME	196.00	016.00	R	1		2600	6000	4	5
2	SW	RWF	VOR/DME	244.69	064.69	L	1 1/2		7000	31000	8	23

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	310	TOWER (27-001053)	442903.00N/0952928.00W	1641	5D
1	200	WINDMILL (27-002448)	443005.90N/0951032.20W	1433	5D
2	265	TOWER (27-001418)	442154.00N/0951928.00W	1588	5D

REASON FOR NONSTANDARD HOLDING:
PAT 2 AIR TRAFFIC REQUEST

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 3000.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	SCHEP			KFCM	MINNEAPOLIS	MN (US)
DP	SCHEP			KMSP	MINNEAPOLIS	MN (US)
DP	SCHEP			KSTP	ST PAUL	MN (US)
EN ROUTE	J34					(US)
EN ROUTE	J90					(US)
EN ROUTE	Q120					(US)
EN ROUTE	V148					(US)
EN ROUTE	V175					(US)
EN ROUTE	V24					(US)
EN ROUTE	V26					(US)
EN ROUTE	V398					(US)
EN ROUTE	V412					(US)
IAP	VOR/DME RWY 33			KGDB	GRANITE FALLS	MN (US)
IAP	NDB OR GPS RWY 31			KDXX	MADISON	MN (US)
IAP	ILS OR LOC RWY 12			KMML	MARSHALL	MN (US)
IAP	RNAV (GPS) RWY 12			KMML	MARSHALL	MN (US)
IAP	VOR RWY 12			KMML	MARSHALL	MN (US)
IAP	VOR/DME RWY 30			KMML	MARSHALL	MN (US)
IAP	RNAV (GPS) RWY 32			KMVE	MONTEVIDEO	MN (US)
IAP	VOR/DME OR GPS-A		1	KOVL	OLIVIA	MN (US)
IAP	RNAV (GPS) RWY 30			KRWF	REDWOOD FALLS	MN (US)
IAP	VOR-A		1	KRWF	REDWOOD FALLS	MN (US)
IAP	VOR/DME OR GPS RWY 13			KD42	SPRINGFIELD	MN (US)
IAP	RNAV (GPS) RWY 15			KJYG	ST JAMES	MN (US)
IAP	RNAV (GPS) RWY 11			KTKC	TRACY	MN (US)
IAP	RNAV (GPS) RWY 29			KTKC	TRACY	MN (US)
IAP	RNAV (GPS) RWY 31			KBDH	WILLMAR	MN (US)
IAP	NDB RWY 17			KMWM	WINDOM	MN (US)
IAP	RNAV (GPS) RWY 17			KMWM	WINDOM	MN (US)
STAR	SKETR ARRIVAL		2	KMSP	MINNEAPOLIS	MN (US)

REQUIRED CHARTING: DP, STAR, IAP, CONTROLLER, EN ROUTE LOW, EN ROUTE HIGH

QUALITY 6 CHECKED

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 15 **DATE OF REVISION:** 04/05/2012

REASON FOR REVISION:
REVISED HOLDING PATTERN 2 OBSTACLE DATA (NEW OBSTACLE DATA), TEMPLATES (CHANGED MIN FROM 15 TO 8 AND MAX FROM 25 TO 23), ALTITUDES (CHANGED MIN FROM 21000 TO 7000 AND MAX FROM 35000 TO 31000) - PER SKETR STAR
UPDATED FIX USE - REMOVED KBDH ILS OR LOC RWY 13 AND KMML GPS RWY 30, ADDED PAT 1 TO KOVL VOR/DME OR GPS-A

DEVELOPED BY:	**DATE:** 05/27/2011	**OFFICE:** AJV-353	**NAME:** JOHN ROSARIO
APPROVED BY:	**DATE:** 12/20/2011	**OFFICE:** AJV-353	**NAME:** GREGORY YAMAMOTO
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER:

QUALITY
6
CHECKED

RADIO FIX AND HOLDING DATA RECORD

INFO ONLY

NAME: RISLE **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 444035.32N/0955546.42W **TYPE:** INT, DME

AIRSPACE DOCKET: **FIX TYPE OF ACTION:** MODIFY

FIX MAKE-UP FACILITIES:

FAC	NAME	IDENT	TYPE	CLASS	MAG BRG	TRUE BRG	DME	DIST FROM FAC NM	DIST FROM FAC FEET	MRA	MAA
1	REDWOOD FALLS	RWF	VOR/DME	H	283.34	290.34	36.59	36.59		3800	17500
2	MONTEVIDEO	MVE	VOR/DME	T	202.67	207.67	20.06	20.06		3800	12000

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V24-398	1, 2				(US)
IAP	RNAV (GPS) RWY 33			KGDB	GRANITE FALLS	MN (US)
IAP	RNAV (GPS) RWY 12			KMML	MARSHALL	MN (US)
IAP	RNAV (GPS) RWY 32			KMVE	MONTEVIDEO	MN (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 02/11/2010

REASON FOR REVISION:
UPDATED FIX USE.
LOWERED FAC 2 MAA FROM 17500 TO 12000

DEVELOPED BY: **DATE:** 08/06/2009 **OFFICE:** AVN-101 **NAME:** EUGENE NEWTON (NICHOLE HEISE)

APPROVED BY: **DATE:** 12/03/2009 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZMP
ATC FACILITY:
OTHER: MSP APP CON

QUALITY 6 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **MONTEVIDEO** STATE: **MN**

AIRPORT NAME: **MONTEVIDEO-CHIPPEWA COUNTY** ID: **KMVE**

PROCEDURE: **RNAV (GPS) RWY 32** AMDT: **ORIG**

DOCKET#: **NOT REQUIRED**
(96-AXX-X/Required/Not Required)

ALL DIST TO 1/100 NM; ELEV TO NEAREST FT; COORD TO 1/100 SEC; DEG TO 1/100 DG.

1. Distance from **THLD** to 1000' point **3.25**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.74**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **322.81**
4. High Terrain in **FINAL** segment containing 1000' point **1063**
5. Distance from **THLD** to 1500' point **4.84**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **2.00**
7. True Course of **FINAL** segment containing 1500' point **322.81**
8. High Terrain in **FINAL** segment containing 1500' point **1063**
9. Threshold Coordinates (if straight-in) ... **445750.11N** / **0954218.31W**
10. ARP Coordinates ..... **445809.08N** / **0954237.32W**
11. Runway Approach End and distance furthest from ARP ..... RWY **32**
    Distance **0.39** NM
12. FAF Coordinates ..... **445359.76N** / **0953812.02W**

REMARKS: Approach/Drawing attached.