Flight Procedure Tracking Form	Action: FLIGHT CHECK	Task Type: IAP	Date Open: 06/24/2008	Task #: 2008062313928715004	Request #: 20080623139287
Procedure: RNAV (GPS) RWY 14 ORIG		Airport ID: KSUW	Airport: RICHARD I BONG		Reimbursable #:
City: SUPERIOR	ST: WI	GPS #:		Estimated Chart Date: 07/26/2012	FICO #:
Fac ID: RNAV	Fac. Type: LP Proc	Specialist: THOMAS KIRKPATRICK			

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	02/02/2012	03/16/2012	TIMOTHY MCHENRY	
QA:	03/16/2012	03/16/2012	TIMOTHY MCHENRY	
Liaison:	03/16/2012		Terrell	MAGVAR

MAG VAR pl

Procedure Comments: ENROUTE **Remark Type:** INFORMATION

pg 2 of 5

SUPERIOR, WI RICHARD I BONG (KSUW) RNAV (GPS) RWY 14, ORIG (LP) ENROUTE-YES FC: 5.29.12 PUB: 7.26.12

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): BARUM-INT, REV 8; BNATT, REV 1; JIBEG, ORIG; PROCT, REV 1; ZINUP, ORIG; (INFO ONLY) FOSUP-INT, REV 2; HIBBING (HIB) VDME, REV 11.

CONTACT: JILL OLSON, AJV-353 LEAD, 405.954.9568:

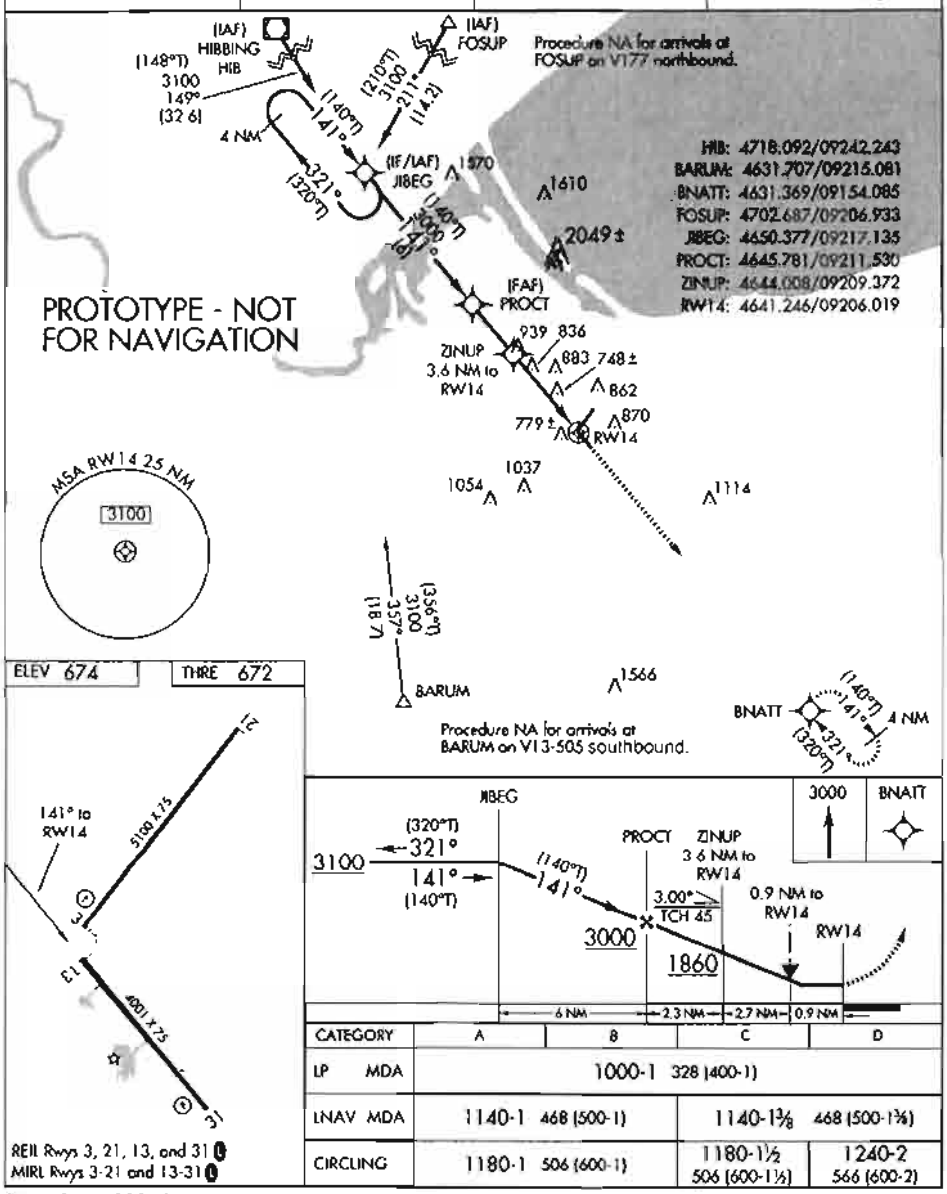
WAAS CH 49029 W14A	APP CRS 141°	Rwy ldg 4001 THRE 672 Apt Elev 674

RNAV (GPS) RWY 14
SUPERIOR/RICHARD I. BONG (SUW)

Circling to Rwy 22 NA at night. When VGSI inop, Circling Rwy 32 NA at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP NA with Sky Harbor altimeter setting. When local altimeter setting not received, use Sky Harbor altimeter setting

MISSED APPROACH: Climb to 3000 direct BNATT and hold.

AWOS-3	DULUTH APP CON *	CLNC DEL	UNICOM
120.35	125.45 255.9	124.8	122.7 (CTAF)

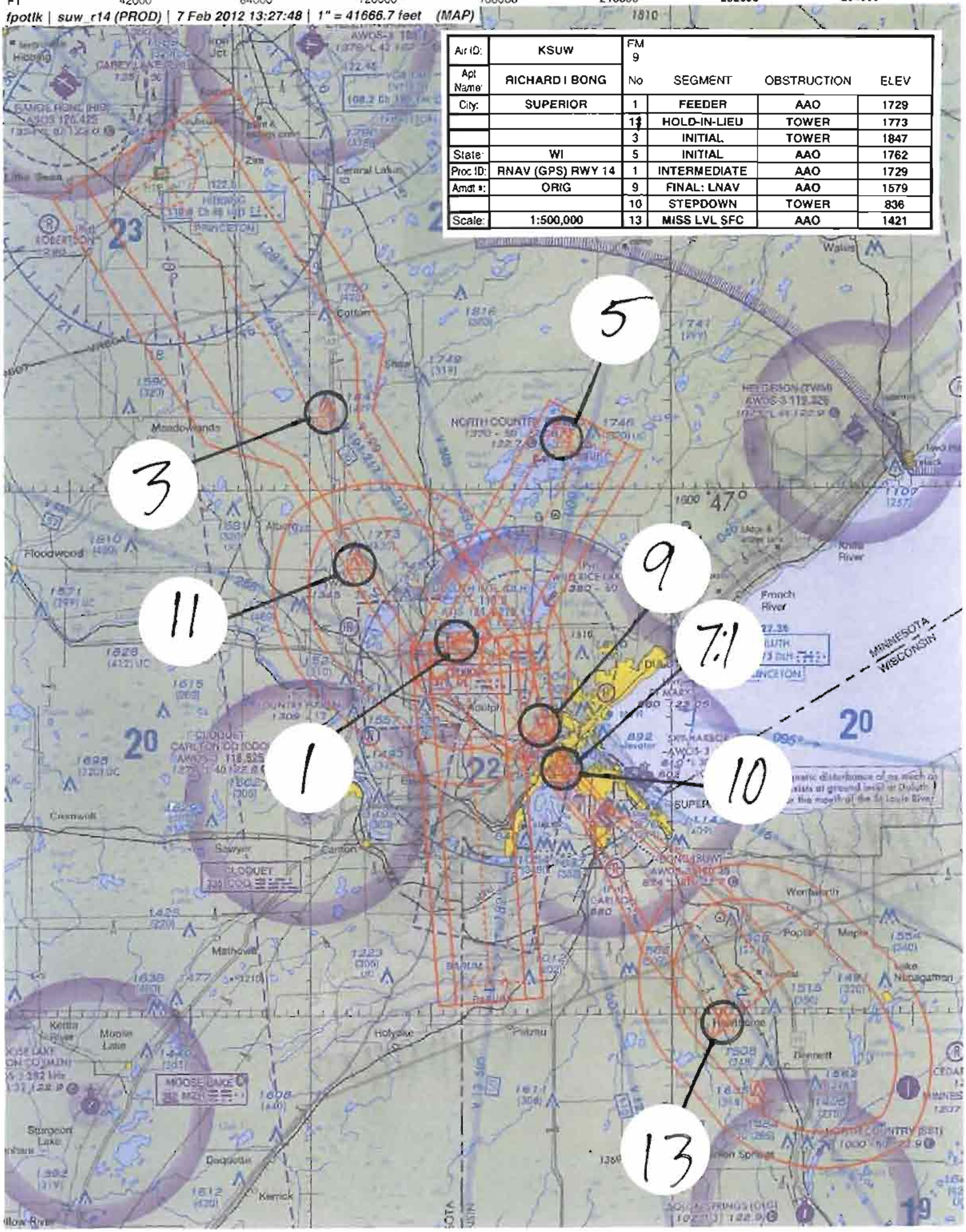


CATEGORY	A	B	C	D
LP MDA	1000-1 328 (400-1)			
LNAV MDA	1140-1 468 (500-1)		1140-1⅜ 468 (500-1⅜)	
CIRCLING	1180-1 506 (600-1)		1180-1½ 506 (600-1½)	1240-2 566 (600-2)

NM 7 14 21 28 35 42 49

FT 42000 84000 126000 168000 210000 252000 294000

fpotlk | suw_r14 (PROD) | 7 Feb 2012 13:27:48 | 1" = 41666.7 feet (MAP)



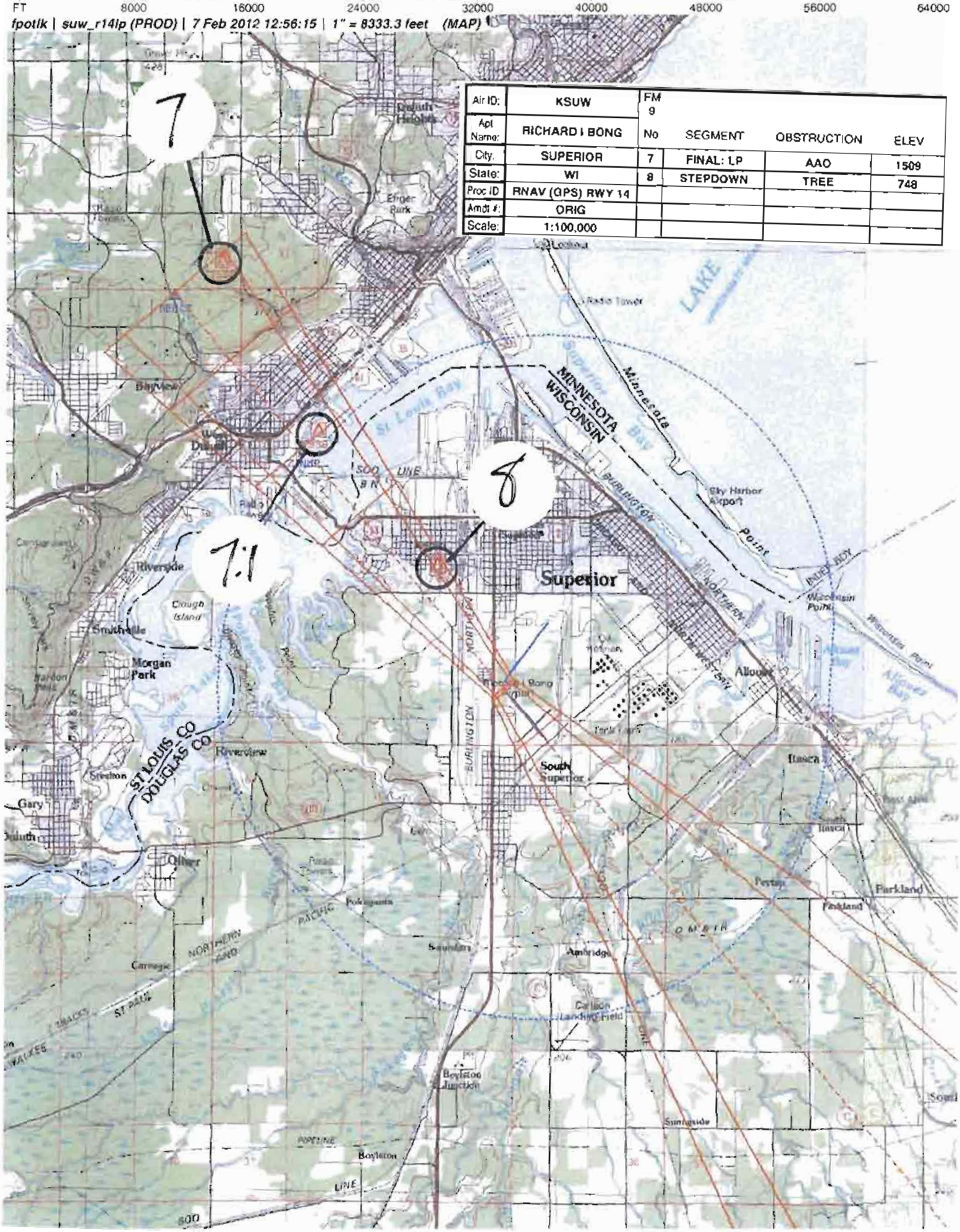
Air ID:	KSUW	FM 9			
Apt Name:	RICHARD I BONG	No	SEGMENT	OBSTRUCTION	ELEV
City:	SUPERIOR	1	FEEDER	AAO	1729
		11	HOLD-IN-LIEU	TOWER	1773
		3	INITIAL	TOWER	1847
State:	WI	5	INITIAL	AAO	1762
Proc ID:	RNAV (GPS) RWY 14	1	INTERMEDIATE	AAO	1729
Amdt #:	ORIG	9	FINAL: LNAV	AAO	1579
		10	STEPDOWN	TOWER	836
Scale:	1:500,000	13	MISS LVL SFC	AAO	1421

NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpotlk | suw_r14lp (PROD) | 7 Feb 2012 12:56:15 | 1" = 8333.3 feet (MAP)

Air ID:	KSUW	FM 9			
Apt Name:	RICHARD I BONG	No	SEGMENT	OBSTRUCTION	ELEV
City:	SUPERIOR	7	FINAL: LP	AAO	1509
State:	WI	8	STEPDOWN	TREE	748
Proc ID	RNAV (GPS) RWY 14				
Amdt #:	ORIG				
Scale:	1:100,000				

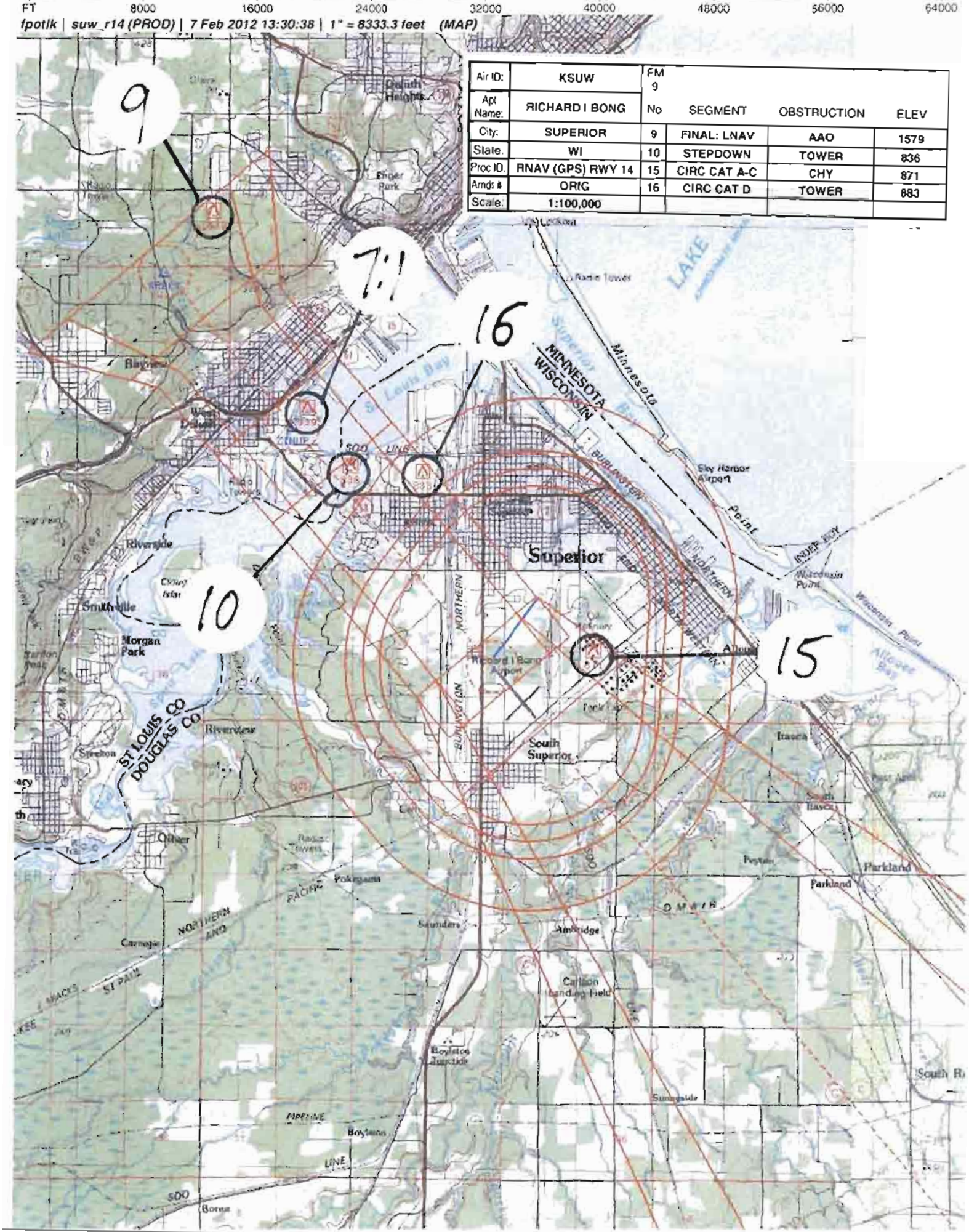


NM 1 2 3 4 5 6 7 8 9 10

FT 8000 16000 24000 32000 40000 48000 56000 64000

fpotlk | suw_r14 (PROD) | 7 Feb 2012 13:30:38 | 1" = 8333.3 feet (MAP)

Air ID:	KSUW	FM 9			
Apt Name:	RICHARD I BONG	No	SEGMENT	OBSTRUCTION	ELEV
City:	SUPERIOR	9	FINAL: LNAV	AAO	1579
State:	WI	10	STEPDOWN	TOWER	836
Proc ID:	RNAV (GPS) RWY 14	15	CIRC CAT A-C	CHY	871
Amdt #	ORIG	16	CIRC CAT D	TOWER	883
Scale:	1:100,000				



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
BARUM	JIBEG (FO)	356.68 / 18.73	3100
HIB VOR/DME (IAF)	JIBEG (NOPT) (FB)	149.09 / 32.61	3100
FOSUP (IAF)	JIBEG (NOPT) (FB)	210.64 / 14.16	3100
JIBEG (IF/IAF)	PROCT (FB)	141.02 / 6.00	2600
PROCT (FAF)	ZINUP/3.60 NM TO RW14 (FB)	141.08 / 2.31	
ZINUP/3.60 NM TO RW14	RW14 (MAP) (FO)	141.11 / 3.60	
(SEE FORM 8260-10)			

MISSED APPROACH

LP: RW14
LNAV: RW14

CLIMB TO 3000 DIRECT BNATT AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. HOLD NW JIBEG, RT, 141.02 INBOUND, 3100 FT. IN LIEU OF PT (IAF)
3. FAC: 141.08 FAF: PROCT DIST FAF TO MAP: 5.91 THLD: 5.91
4. MIN. ALT: JIBEG 3100, PROCT 2600, ZINUP/3.60 NM TO RW14 1860
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: ____ GS ALT AT: ____ OM: ____ MM: ____ IM: ____
7. GS ANGLE: ____ TCH: 34:1 IS NOT CLEAR
8. MSA FROM: RW14 3100

ADDITIONAL FLIGHT DATA:
HOLD SE, RT, 321.29 INBOUND.
CHART FAS OBST: 748 TREE 464236N/0920707W
CHART FAS OBST: 836 TOWER 464328N/0920825W
CHART: 939 STACK 464408N/0920908W
CHART VDP AT 0.89 MILES TO RW14
WAAS CHANNEL # 49029
REFERENCE PATH ID: W14A
PROCT TO RW14: 3.00/45.
LTP HAE: 176.7 M

MAG VAR: 1W 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
LP MDA	1000	1	328	1000	1	328	1000	1	328	1000	1	328			
LNAV MDA	1140	1	468	1140	1	468	1140	1 3/8	468	1140	1 3/8	468			
CIRCLING	1180	1	506	1180	1	506	1180	1 1/2	506	1240	2	566			

NOTES:
CHART NOTE: CIRCLING TO RWY 22 NA AT NIGHT.
CHART NOTE: WHEN VGSI INOP, CIRCLING RWY 32 NA AT NIGHT.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: VISIBILITY REDUCTION BY HELICOPTERS NA.
(SEE FORM 8260-10)

@ NA WHEN LOCAL WEATHER NOT AVAILABLE.

QUALITY CHECKED 9

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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] **AMP, DLH APP CON, AMGR**

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:
DEVELOPED BY		
NAME: **THOMAS L KIRKPATRICK**	FIFO **AJV-353**	DATE: **02/13/2012**
APPROVED BY		
NAME: **LARRY H STROUT** **MANAGER**	FIFO **AJV-353**	DATE:

CHANGES:

ORIGINAL

REASONS:

FPT REQUEST.

PDF EDITS:
TERMINAL ROUTES: ADD (FAF) AFTER PROCT, REMOVED 1840 FROM ALTITUDE COLUMN, REMOVE A RW14, CHANGED 1000 TO 3000.
LINE7: REMOVE 3.00 AND 45.0
ADDITIONAL FLIGHT DATA: REMOVED *LNAV ONLY.

QUALITY CHECKED

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW14 (MAP)	1000 MSL	141.11	
1000 MSL	BNATT (FO)		3000

NOTES, (CONT.):
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT FOSUP ON V177 NORTHBOUND.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BARUM ON V13-505 SOUTHBOUND.
CHART NOTE: VDP NA WITH SKY HARBOR ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE SKY HARBOR ALTIMETER SETTING.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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:

QUALITY CHECKED

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FAS DATA BLOCK INFORMATION

DATA FIELD	DATA
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KSUW
RUNWAY	RW14
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W14A
LTP/FTP LATITUDE	464114.7675N
LTP/FTP LONGITUDE	0920601.1095W
LTP/FTP ELLIPSOIDAL HEIGHT	+01767
FPAP LATITUDE	464006.3900N
FPAP LONGITUDE	0920438.2100W
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	1528
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	0.0
CRC REMAINDER	28B26D0C

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+02049
FPAP ORTHOMETRIC HEIGHT	+02049

QUALITY CHECKED 9

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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:

QUALITY CHECKED 9

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        HIB   K3011080VDLW N47180550W092421456    N47180550W092421456E0020013121     NARHIBBING

                 1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   BARUM K50    C   L N46314243W092150487                      W0005     NAR           BARUM
        SUSAEAENRT   BNATT K50    W     N46312213W091540507                      W0008     NAR           BNATT
        SUSAEAENRT   FOSUP K30    C   L N47024123W092065597                      W0007     NAR           FOSUP
        SUSAEAENRT   JIBEG K30    W     N46502262W092170812                      W0005     NAR           JIBEG
        SUSAEAENRT   PROCT K30    W     N46454688W092113177                      W0006     NAR           PROCT
        SUSAEAENRT   ZINUP K30    W     N46440048W092092233                      W0006     NAR           ZINUP

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUWK5ASUW     0     051YHN46412286W092054071W001000674         1800018000C    MNAR    RICHARD I BONG

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUWK5FR14   ABARUM 010BARUMK5EA0E       IF                                                18000                A JS
        SUSAP KSUWK5FR14   ABARUM 020JIBEGK3EA0EY   020TF                     35670187    + 03100                                A JS
        SUSAP KSUWK5FR14   ABARUM 030JIBEGK3EA0EE AR   HF                     14100040    + 03100                                A JS
        SUSAP KSUWK5FR14   AFOSUP 010FOSUPK3EA0E  A    IF                                                18000                A JS
        SUSAP KSUWK5FR14   AFOSUP 020JIBEGK3EA0EE B 010TF                     21060142    + 03100                                A JS
        SUSAP KSUWK5FR14   AHIB   010HIB  K3D 0V  A    IF                                                18000                A JS
        SUSAP KSUWK5FR14   AHIB   020JIBEGK3EA0EE B 010TF                     14910326    + 03100                                A JS
        SUSAP KSUWK5FR14   R      010JIBEGK3EA0E  I    IF                                 + 03100     18000                A JS
        SUSAP KSUWK5FR14   R      020PROCTK3EA1E  F 051TF                     14100060    + 02600                  RW14  K5PGA JS
        SUSAP KSUWK5FR14   R      020PROCTK3EA2WALP        N          ALNAV                                                      JS
        SUSAP KSUWK5FR14   R      021ZINUPK3EA0E S  031TF                     14110023    V 0186001864        -300           A JS
        SUSAP KSUWK5FR14   R      030RW14 K5PG0GY M 031TF                     14110036      00717             -300           A JS
        SUSAP KSUWK5FR14   R      040          0  M     CA                     1411        + 01000                                A JS
        SUSAP KSUWK5FR14   R      050BNATTK5EA0EY      DF                                 + 03000                                A JS
        SUSAP KSUWK5FR14   R      060BNATTK5EA0EE  R   HM                     32130040    + 03000                                A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUWK5GRW14    0040011412 N46411477W092060111+0000    +0176700672000045075R
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: **RICHARD I BONG**	**RNAV**	**RNAV (GPS) RWY 14, 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:

QUALITY CHECKED

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```
PP      1         2         3         4         5         6         7         8         9         0         1         2         3
        123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUWK5PR14   RW14 001 0000W14A0N4641147675W09206011095+017670300N4640063900W09204382100106751528000450F40000028B26D0C
        SUSAP KSUWK5PR14   RW14 002E      +02049+02049LP        49029
```

```
MSA     1         2         3         4         5         6         7         8         9         0         1         2         3
        123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KSUWK5SRW14 K5PG               0   18018003125                                                                       M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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:

QUALITY CHECKED

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
	BARUM	BARUM	010		IF		FB					
	BARUM	JIBEG	020		TF		FO	2.0	356.7(355.7T)	018.7	AA 03100	
	BARUM	JIBEG	030	IAF	HF	R	FO		141.0(140.0T)	004.0	AA 03100	
	FOSUP	FOSUP	010	IAF	IF		FB					
	FOSUP	JIBEG	020		TF		FB	1.0	210.6(209.6T)	014.2	AA 03100	
	HIB	HIB	010	IAF	IF		FB					
	HIB	JIBEG	020		TF		FB	1.0	149.1(148.1T)	032.6	AA 03100	
		JIBEG	010	FACF	IF		FB				AA 03100	
		PROCT	020	FAF	TF		FB	0.5	141.0(140.0T)	006.0	AA 02600	
		ZINUP	021	SDF	TF		FB	0.3	141.1(140.1T)	002.3	AA 01860 GS 01864	
		RW14	030	MAP	TF		FO	0.3	141.1(140.1T)	003.6	AT 00717	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		141.1(140.1T)		AA 01000	
	BNATT	050		DF		FO				AA 03000	
	BNATT	060		HM	R	FO		321.3(320.3T)	004.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	HIB	N471805.50	W0924214.56	N4718.092	W09242.243
	BARUM	N463142.43	W0921504.87	N4631.707	W09215.081
	BNATT	N463122.13	W0915405.07	N4631.369	W09154.085
	FOSUP	N470241.23	W0920655.97	N4702.687	W09206.933
	JIBEG	N465022.62	W0921708.12	N4650.377	W09217.135
	PROCT	N464546.88	W0921131.77	N4645.781	W09211.530
	ZINUP	N464400.48	W0920922.33	N4644.008	W09209.372
	RW14	N464114.77	W0920601.11	N4641.246	W09206.019

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW14	00672	45

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 THRE: 672	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
SUPERIOR, WI	AIRPORT NAME: RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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:

QUALITY 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.
FEEDER	BARUM	JIBEG	1. AAO	465103.00N/0921730.00W	1729 (4E)	1000	AT371	3100
			2. TERRAIN	464951.00N/0921724.00W	1506 (1500)		AS1500	3000
INITIAL	HIB VOR/DME	JIBEG	3. TOWER (27-001135)	470411.78N/0922825.68W	1847 (5D)	1000		2900
			4. TERRAIN	470215.00N/0922436.00W	1556 (1600)		AS1500	3100
INITIAL	FOSUP	JIBEG	5. AAO	470236.00N/0920845.00W	1762 (4E)	1000		2800
			6. TERRAIN	470236.00N/0920845.00W	1562 (1600)		AS1500	3100
INTERMEDIATE	JIBEG (IF/IAF)	PROCT	1. AAO	465103.00N/0921730.00W	1729 (4E)	500	AC98 AT273	2600
			2. TERRAIN	464951.00N/0921724.00W	1506 (1500)		AS1000	2500
FINAL: LP	PROCT	ZINUP/3.60 NM TO RW14	7. AAO	464605.41N/0921044.50W	1509 (2C)	250	DG101	1860
FINAL: LP STEPDOWN	ZINUP/3.60 NM TO RW14	RW14	8. TREE (KSUWT0824)	464235.90N/0920707.41W	748 (1B)	250		1000
FINAL: LNAV	PROCT	ZINUP/3.60 NM TO RW14	9. AAO	464623.41N/0921042.38W	1579 (2C)	250	DG31	1860
2. HOLD-IN-LIEU-OF-PT	JIBEG		11. TOWER (27-001107)	465528.00N/0922615.00W	1773 (5D)	1000	AT327	3100
			12. TERRAIN	465103.00N/0921730.00W	1529 (1500)		AS1500	3000
3. MISSED APPROACH — MAP:	RW14 / RW14	BNATT				ASC		3000
			13. AAO	462930.00N/0915536.00W	1421 (4E)	1000		2500
ELEV:	900/1040		14. TERRAIN	462930.00N/0915536.00W	1221 (1200)		AS1500	2700

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL							
CATEGORY A	1.3 NM	350	506	15. CHY (KSUWT0855)	464121.40N/0920419.42W	871 (2C)	300		1180
CATEGORY B	1.5 NM	450	506	15. CHY (KSUWT0855)	464121.40N/0920419.42W	871 (2C)	300		1180
CATEGORY C	1.7 NM	450	506	15. CHY (KSUWT0855)	464121.40N/0920419.42W	871 (2C)	300		1180
CATEGORY D	2.3 NM	550	566	16. TOWER (55-000253)	464324.00N/0920712.00W	883 (5D)	300	AC50	1240
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW14

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	MSA
360-360	TWR (27-000141)	353/ 06.0	2049 (5D)	3100					2

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SUPERIOR, WI	RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, ORIG	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE			3. ALTIMETER SETTING
ZMP ARTCC DLH APP CON PNM FSS		N W S	OTHER: AWOS-3	SOURCE: KSUW / KDYT
		F A A		DISTANCE: 0 / 2.86
		A / C		HOURS REMOTE OPERATION:
SATISFACTORY ON:				
X V H F X U H F H F	LOCATION:			ADJUSTMENT: 0 / 0

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

5. APPROACH & RUNWAY LIGHTING		ALS
		(S) SALS
		MALS
		HIRL
	X	MIRL 22 (PCL), 04 (PCL), 14 (PCL), 32 (PCL)
	X	REIL 22 (PCL), 04 (PCL), 14 (PCL), 32 (PCL)
		TDZ
		C/LINE
	X	OTHER (SPECIFY) PAPI-4L 04, 32

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	NPI-G 22, 04, 14, 32
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	X	RUNWAY THRESHOLD	FT. FROM THRESHOLD
	X	ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: THOMAS L KIRKPATRICK	DATE: 02/13/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 939 STACK
464408N/0920908W

RASS PRESSURE PATTERNS SAME
KSUW 674, KDYT 611
RA = 0.
SEE ATTACHED AIRSPACE LETTER.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
34:1 (TOP 5):
714 SIGN (KSUWT0458) 464121.34N/0920616.04W (13.15)
720 TREE (KSUWT0404) 464126.52N/0920613.49W (10.66)
717 TREE (KSUWT0410) 464126.13N/0920613.48W (8.56)
717 TERR (KSUWT0410) 464126.30N/0920613.22W (8.51)
716 TREE (KSUWT0401) 464126.45N/0920613.03W (7.42)

ALL INTERMEDIATE SEGMENTS SHARE SAME CONTROLLING OBST/TERRAIN.

LPV AND LNAV/VNAV NOT DEVELOPED DUE TO GQS PENETRATIONS.

PDF EDITS:
8. REMOVED GP ANGLE: 3.00, ELEV RWY THRESHOLD: 672.1, AND THRESHOLD CROSSING HEIGHT: 45.0

QUALITY 2 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	ZINUP/3.60 NM TO	RW14	10. TOWER (55-001205)	464328.00N/0920825.00W	836 (5D)	250	AC50	1140
	RW14							

3. MISSED APPROACH									
	MAP:								
	ELEV:								

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT.							
CATEGORY A	1.3 NM	REQUIRED	350	ACTUAL					
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

QUALITY CHECKED

CITY AND STATE	ELEVATION: 674 AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
SUPERIOR, WI	RICHARD I BONG	RNAV	RNAV (GPS) RWY 14, 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:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BARUM **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 463142.43N/0921504.87W **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	DULUTH	DLH	VORTAC	H	181.97	186.97	16.55	16.55		4000	17500
2	ASHLAND	ASX	VOR/DME	T	267.18	269.18		55.27		5000	17500

EXPANDED SERVICE VOLUME (ESV):

FAC IDENT	FAC TYPE	RADIAL/BEARING	DISTANCE	MIN ALTITUDE	MAX ALTITUDE
ASX	VOR/DME	R-267	56	5000	17500

FIX RESTRICTIONS:
MRA V13-305 5000

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	209.82	029.82	R		4	4000	8000	5	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (55-000027)	462430.00N/0920955.00W	1611	4D
1	200	AAO	462233.00N/0922112.00W	1565	4E
1	310	TOWER (55-000027)	462430.00N/0920955.00W	1611	4D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 5000.

PROCEDURES REQUIRING CLIMB-IN-HOLD:

PAT	PROCEDURE TITLE	AIRPORT IDENT	CITY	STATE
1	RNAV (GPS) RWY 4	KSUW	SUPERIOR	WI (US)
1	RNAV (GPS) RWY 22	KSUW	SUPERIOR	WI (US)

REMARKS:
PRECIPITOUS TERRAIN ELAVUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V13-505	1, 2				(US)
IAP	NDB RWY 35	1, 2		KCOQ	CLOQUET	MN (US)
IAP	RNAV (GPS) RWY 32			KHZX	MCGREGOR	MN (US)
IAP	NDB RWY 4	1, 2		KMZH	MOOSE LAKE	MN (US)
IAP	RNAV (GPS) RWY 19			KOLG	SOLON SPRINGS	WI (US)
IAP	RNAV (GPS) RWY 14			KSUW	SUPERIOR	WI (US)
IAP	RNAV (GPS) RWY 22		1	KSUW	SUPERIOR	WI (US)
IAP	RNAV (GPS) RWY 4		1	KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 8 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
ADDED DIST FROM FAC FOR FAC 1 AND 2.
REMOVED FAC 3.
CHANGED HOLDING PATTERN FROM 28.14 INBOUND TO 29.82.
UPDATED UNPLANNED HOLDING OBSTACLE NUMBER.
ADD PRECIPITOUS TERRAIN TO REMARKS.
UPDATE FIX USE.
INCREASED FAC 1 MRA FROM 4000 TO 5000, ESV MIN ALTITUDE FROM 4000 TO 5000.
UNPLANNED HOLDING NOW AUTHORIZED AT OR ABOVE 5000.

4/18/12 THIS IS A UPDATED COPY OF THE FORM CREATED ON 2/10/12.
FAC 2 MRA INCREASED FROM 4000 TO 5000.
ESV FOR ASX VOR/DME INCREASED FROM 4000 TO 5000.
UNPLANNED HOLDING NOTE, INCREASED ALTITUDE FROM 4000 TO 5000.
ADDED MRA FLAG V13-305 5000.
FIX USE, NDB 35 AT KCOQ, ADDED FAC 1 AND 2.

QUALITY CHECKED 1

DEVELOPED BY:	**DATE:** 02/10/2012	**OFFICE:** AJV-353	**NAME:** THOMAS KIRKPATRICK
APPROVED BY:	**DATE:** 04/17/2012	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

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

QUALITY CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: BNATT **STATE:** WI **COUNTRY:** US

LATITUDE/LONGITUDE: 463122.13N/0915405.07W **TYPE:** WP

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

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	141.29	321.29	R		4	3000	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (55-000393)	462524.00N/0915244.00W	1635	4D

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	KSUW	SUPERIOR	WI (US)
IAP	RNAV (GPS) RWY 32		1	KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
UPDATE FIX COORDINATES, FIX MOVED 1216 FEET SE.
REMOVED FAC 1.
ADD HOLDING.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: JIBEG **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 465022.62N/0921708.12W **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	321.02	141.02	R		4	3100	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (27-001107)	465528.00N/0922615.00W	1773	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	KSUW	SUPERIOR	WI (US)
IAP	RNAV (GPS) RWY 32		1	KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/10/2012 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: PROCT **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 464546.88N/0921131.77W **TYPE:** WP

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

HOLDING: **HOLDING TYPE OF ACTION:** CANCEL

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 14			KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 1 **DATE OF REVISION:** 07/26/2012

REASON FOR REVISION:
FIX MOVED 531 FEET SE.
REMOVED FAC 1.
REMOVED HOLDING.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: ZINUP **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 464400.48N/0920922.33W **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 14			KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 07/26/2012

DEVELOPED BY: **DATE:** 02/09/2012 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

"INFO ONLY"

NAME: FOSUP **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 470241.23N/0920655.97W **TYPE:** WP, 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	DULUTH	DLH	VORTAC	H	008.82	013.82	15.00	15.00		3600	17500

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	N		WP	008.82	188.82	R		4	3600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	470939.00N/0921036.00W	1946	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERN.

REMARKS:
PRECIPTIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V177	1				(US)
IAP	RNAV (GPS) RWY 17			KCOQ	CLOQUET	MN (US)
IAP	ILS OR LOC RWY 27	1		KDLH	DULUTH	MN (US)
IAP	RNAV (GPS) RWY 24		1	KTWM	TWO HARBORS	MN (US)
IAP	RNAV (GPS) RWY 6			KTWM	TWO HARBORS	MN (US)
IAP	RNAV (GPS) RWY 14			KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 06/30/2011

REASON FOR REVISION:
ADDED WP TO TYPE.
ADDED WP PATTERN 1 HOLDING.
RAISED MRA TO 3600.

DEVELOPED BY: **DATE:** 01/06/2011 **OFFICE:** AVN-120 **NAME:** ROY BARNETT

APPROVED BY: **DATE:** 04/12/2011 **OFFICE:** AVN-120 **NAME:** GREGORY YAMAMOTO

SIGNATURE:

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

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

"INFO ONLY"

NAME: HIBBING VOR/DME **STATE:** MN **COUNTRY:** US

LATITUDE/LONGITUDE: 471805.50N/0924214.56W **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	DIST FROM FAC FEET	MRA	MAA
1	HIBBING	HIB	VOR/DME	L							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	SE	HIB	VOR/DME	130.21	310.21	R	1		3600	14000	4	10
2	SE	HIB	VOR/DME	131.00	311.00	R	1		3300	14000	4	10
3	SW	HIB	VOR/DME	227.00	047.00	R	1		3000	12000	4	9

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	AAO	471712.00N/0923039.00W	1667	4E
2	200	AAO	471712.00N/0923039.00W	1667	4E
3	200	AAO	472024.00N/0923757.00W	1651	4E

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V129					(US)
EN ROUTE	V191					(US)
EN ROUTE	V217					(US)
EN ROUTE	V505					(US)
IAP	RNAV (GPS) RWY 17			KCOQ	CLOQUET	MN (US)
IAP	RNAV (GPS) RWY 31			KCQM	COOK	MN (US)
IAP	GP RWY 27			KEVM	EVELETH	MN (US)
IAP	VOR RWY 27			KEVM	EVELETH	MN (US)
IAP	VOR/DME OR GPS-A		3	KEVM	EVELETH	MN (US)
IAP	ILS OR LOC RWY 34			KGPZ	GRAND RAPIDS	MN (US)
IAP	VOR RWY 34			KGPZ	GRAND RAPIDS	MN (US)
IAP	ILS OR LOC RWY 31		1	KHIB	HIBBING	MN (US)
IAP	ILS OR LOC/DME RWY 13		1	KHIB	HIBBING	MN (US)
IAP	VOR RWY 13		2	KHIB	HIBBING	MN (US)
IAP	VOR RWY 31		2	KHIB	HIBBING	MN (US)
IAP	RNAV (GPS) RWY 26			K12D	TOWER	MN (US)
IAP	RNAV (GPS) RWY 8			K12D	TOWER	MN (US)
IAP	RNAV (GPS) RWY 14			KSUW	SUPERIOR	WI (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 11 **DATE OF REVISION:** 09/23/2010

REASON FOR REVISION:
UPDATED FIX USE.
ADDED IN REMARKS: PRECIPITOUS TERRAIN EVALUATION COMPLETED.

DEVELOPED BY: **DATE:** 02/02/2010 **OFFICE:** AVN-120 **NAME:** MARCELLO SADORRA (MARY LYNNE HOEGSTROM)

APPROVED BY: **DATE:** 08/12/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

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

QUALITY 2 CHECKED

TERMINAL AIRSPACE DATA REQUIREMENTS

CITY: **SUPERIOR** STATE: **WI**

AIRPORT NAME: **RICHARD I BONG** ID: **KSUW**

PROCEDURE: **RNAV (GPS) RWY 14** 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 **5.28**
   (Enter THLD, FAF, ARP, FACILITY, as appropriate)
2. Width of **FINAL** segment at 1000' point **1.54**
   (Enter appropriate segment, final, intermediate, etc.)
3. True Course of **FINAL** segment containing 1000' point **140.08**
4. High Terrain in **FINAL** segment containing 1000' point **1372**
5. Distance from **THLD** to 1500' point **5.91**
   (If 1500' point in PT maneuvering area or holding pattern note in remarks)
6. Width of **FINAL** segment at 1500' point **3.01**
7. True Course of **FINAL** segment containing 1500' point **140.08**
8. High Terrain in **FINAL** segment containing 1500' point **1372**
9. Threshold Coordinates (if straight-in) ... **464114.77N** / **0920601.11W**
10. ARP Coordinates ..... **464122.86N** / **0920540.71W**
11. Runway Approach End and distance furthest from ARP ..... RWY **22**
    Distance **0.69** NM
12. FAF Coordinates ..... **464546.88N** / **0921131.77W**

REMARKS: Approach/Drawing attached.

Federal Aviation Administration

Memorandum

Date:

To: Dick Powell Manager, National Flight Data Center, AJV-21

From: Larry Strout, Manager, Terminal Procedures & Charting Services, Central Team, AJV-353

Subject: **ACTION:** Magnetic Variation Change

CONCURRENCES
ROUTING SYMBOL AJV-34 SBaker
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 Lead
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-353 LStrout
INITIALS/SIG
DATE
ROUTING SYMBOL AJV-341 PGetz
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE
ROUTING SYMBOL
INITIALS/SIG
DATE

The Magnetic Variation (MV) data for the airport(s) and/or facility(s) listed under the 'Airport/Facility" column will be revised effective concurrent with the publication of the procedure(s) listed below.

RNAV (GPS) RWY 4, ORIG
RNAV (GPS) RWY 14, ORIG
RNAV (GPS) RWY 22, ORIG
RNAV (GPS) RWY 32, ORIG

Estimated Chart Date: 07/26/2012

Runway Numbers are affected with the airport rotation; 3/21 change to 4/22 and 13/31 change to 14/32.

Please publish these changes in the National Flight Data Digest.

WISCONSIN

Location	Name	Airport /Facility	Identifier	Assigned Magnetic Variation Value	Epoch Year
Superior	Richard I Bong	Airport	KSUW / SUW	Old 1 ° East New 1 ° West	2015

If you have any questions please notify Larry H. Strout, larry.h.strout@faa.gov (301) 427-4750

cc: FTW-FPT, AVJ-3rf
AJV-353; LStrout:sbj::x7537:02/06/2012 :U:\AVN100\100Public\MAGVAR\MAGVAR Letters 2012\MV Request MV Change for @Airport , Superior, WI KSUW) Requestor:TKirkpatrick, AJW-3762:CTerrell