Flight Procedure Tracking Form

Action:	Task Type:	Date Open:	Task #:	Request #:
FLIGHT CHECK	IAP	10/18/2012	2010090921649407010	20100909216494

Procedure: RNAV (GPS) Z RWY 31C AMDT 3

Airport ID:	Airport:	Reimbursable #:
KMDW	CHICAGO MIDWAY INTL	

City: CHICAGO **ST:** IL

GPS #:

Estimated Chart Date: 06/27/2013

FICO #:

Fac ID: **Fac. Type:** LPV

Specialist: STEVE NELSON

LPV

Procedure Review

	Rec'd	Rel'd	Full Name	Comments
Lead:	01/03/2013	02/13/2013	JILL OLSON	
QA:	02/13/2013	02/20/2013	DAVID PUGLISI	
Liaison:	02/20/2013		Spurlock	

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

pkg 1 of 7

CHICAGO, IL CHICAGO MIDWAY INTL (KMDW) RNAV (GPS) Z RWY 31C, AMDT 3 (LPV) ENROUTE-NO FC: 5.14.13 PUB: 6.27.13

ATTACHED FORMS: 8260-3; 8260-10; 8260-9; 8260-2(S): GLEAM-INT, REV 6; HILLS-INT, REV 6; RUNTS-INT, REV 7; (INFO ONLY) CHICAGO HEIGHTS (CGT) VTAC, REV 18; HOBEL-INT, REV 2; IGECY-INT, REV 4; PEOTONE (EON) VTAC, REV 13; ZEBKO, ORIG.

CONTACT: JILL OLSON/STEVE BARNETT -AVJ-353 LEADS, 405.954.4014 / 405.954.9307.

RNAV (GPS) Z RWY 31C

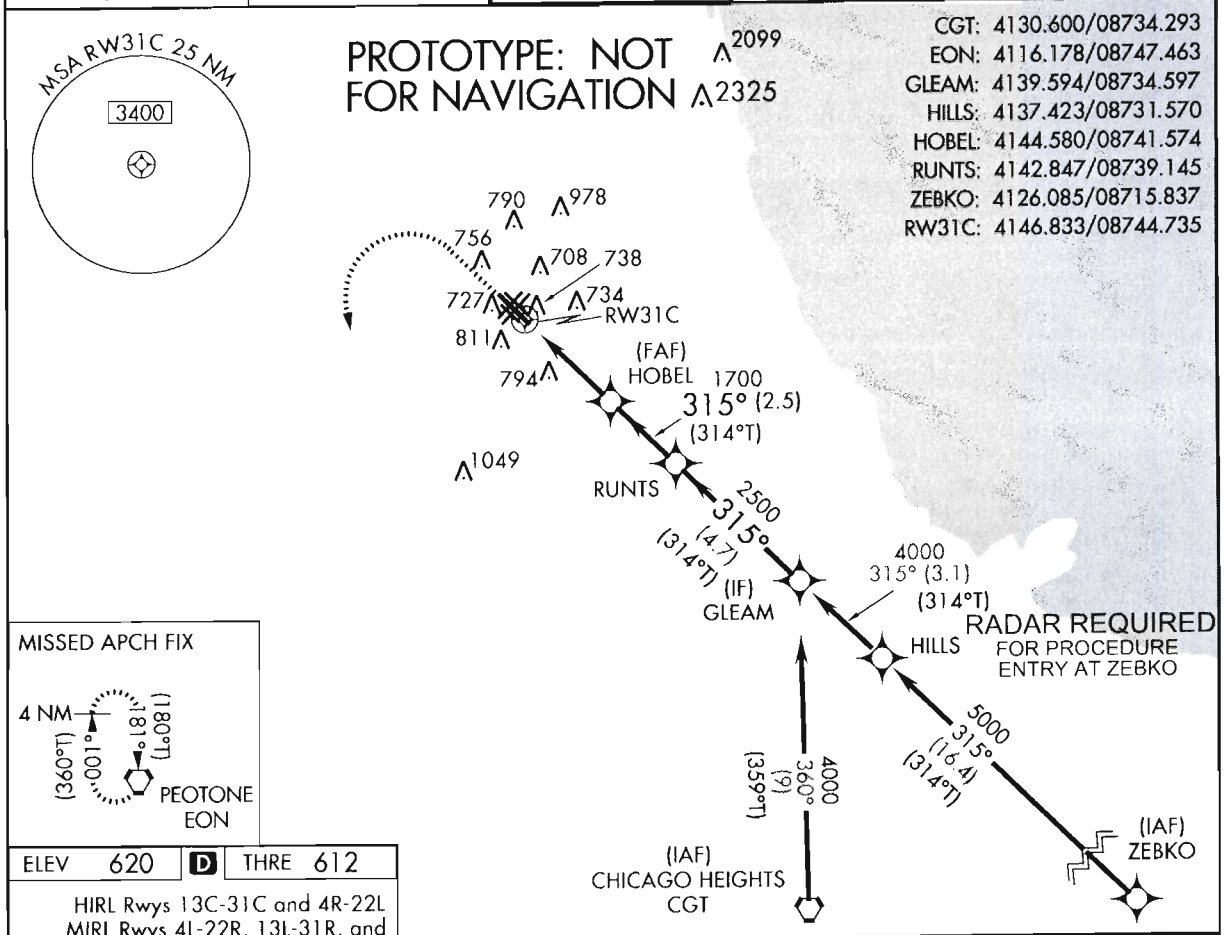
CHICAGO MIDWAY INTL (MDW)

WAAS CH 50512 W31A	APP CRS 315°	Rwy ldg 5826 THRE 612 Apt Elev 620

DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below 21°C (-5°F) or above 54°C (130°F). Helicopter visibility reduction below RVR 4000 NA. Circling to Rwy 31R NA at night.

MISSED APPROACH: Climb to 1100, then climbing left turn to 2600 direct to EON VORTAC and hold.

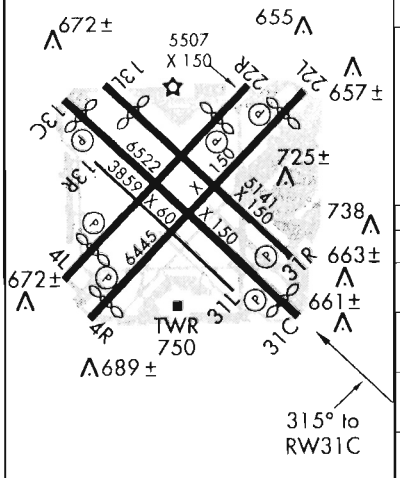
ATIS	CHICAGO APP CON	MIDWAY TOWER	GND CON	CLNC DEL
132.75	128.2 388.0	118.7 269.125	121.65	124.625



MISSED APCH FIX

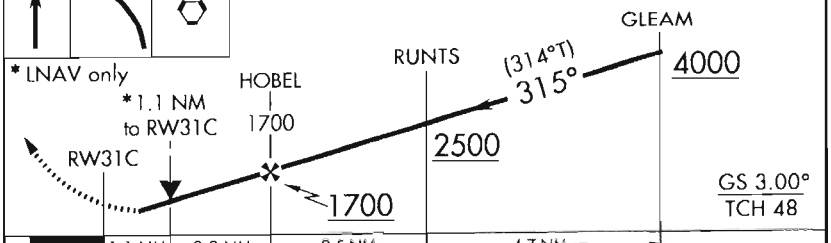
ELEV 620 D THRE 612

HIRL Rwys 13C-31C and 4R-22L
MIRL Rwys 4L-22R, 13L-31R, and 13R-31L
REIL Rwys 4R, 22L, and 31C
RLLS Rwys 13C and 31C



1100	2600	EON

VGSI and RNAV glidepath not coincident (VGSI Angle 3.00/TCH 63).



CATEGORY	A	B	C	D
LPV DA	862/40 250 (300-1)			
LNAV/VNAV DA	952/60 340 (400-1¼)			
LNAV MDA	1020/55 408 (400-1¼)		1020/60 408 (400-1¼)	
C CIRCLING	1120-1 500 (500-1)		1340-2 720 (800-2)	1340-2¼ 720 (800-2¼)

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
ZEBKO (IAF)	HILLS (FB)	314.89 / 16.37	5000
HILLS	GLEAM (FB)	314.72 / 3.14	4000
CGT VORTAC (IAF)	GLEAM (FB)	359.55 / 8.99	4000
GLEAM (IF)	RUNTS (FB)	314.68 / 4.71	2500
RUNTS	HOBEL (FB)	314.63 / 2.51	1700
HOBEL (FAF)	RW31C (MAP) (FO)	314.61 / 3.27	
RW31C (MAP)	1100 MSL	314.61	1100
1100 MSL	EON VORTAC (FO)		2600

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW31C

CLIMB TO 1100, THEN CLIMBING LEFT TURN TO 2600 DIRECT EON VORTAC AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT GLEAM
3. FAC: 314.61 FAF: HOBEL DIST FAF TO MAP: 3.27 THLD: 3.27
4. MIN. ALT: GLEAM 4000, RUNTS 2500, HOBEL 1700
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 1700 GS ALT AT: HOBEL 1700 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 47.9 34:1 IS NOT CLEAR
8. MSA FROM: RW31C 3400

ADDITIONAL FLIGHT DATA:
HOLD N, RT, 181.00 INBOUND.
CHART FAS OBST: 762 ANT 414718N/0874419W
CHART: 838 TOWER 414415N/0874201W
DISTANCE TO THLD FROM 250 HATH: 0.63 NM.
CHART VDP AT 1.08 MILES TO RW31C*
*LNAV ONLY.
WAAS CHANNEL # 50512
REFERENCE PATH ID: W31A
CHART CIRCLING ICON.
LTP HAE: 153.1 M

MAG VAR: 1W EPOCH YEAR: 1985

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	862	4000	250	862	4000	250	862	4000	250	862	4000	250			
LNAV/VNAV DA	952	6000	340	952	6000	340	952	6000	340	952	6000	340			
LNAV MDA	1020	5500	408	1020	5500	408	1020	6000	408	1020	6000	408			
CIRCLING	1120	1	500	1120	1	500	1340	2	720	1340	2 1/4	720			

NOTES:
CHART NOTE: DME/DME RNP-0.3 NA.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -21C (-5F) OR ABOVE 54C (130F).
CHART NOTE: HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED.
(SEE FORM 8260-10)

@ CAT D 800-2 1/4

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 620 THRE: 612 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 31C
CHICAGO, IL	CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	AMDT: 2
				DATED 01/10/2013

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

COORDINATED WITH:

ATA	AAT	ALPA	APA	AOPA	NBAA	OTHER (specify)
[ ]	[ ]	[X]	[X]	[X]	[X]	[X] ZAU, ORD APP CON, MDW ATCT, AMGR

FLIGHT CHECKED BY

NAME:	FIFO	DATE:

DEVELOPED BY

NAME:	FIFO	DATE:
STEVE NELSON	AJV-353	01/25/2013

APPROVED BY

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

CHANGES:

1. RENAMED PROCEDURE RNAV (GPS) Z RWY 31C.
2. CHANGED DISTANCE ZEBKO TO HILLS FROM 16.89 TO 16.37, GLEAM TO RUNTS FROM 4.40 TO 4.71, RUNTS TO HOBEL FROM 2.54 TO 2.51.
3. CHANGED COURSE AND DISTANCE HILLS TO GLEAM FROM 314.71/2.90 TO 314.72/3.14 AND CGT VORTAC TO GLEAM FROM 358.32/9.19 TO 359.55/8.99.
4. CHANGED MISSED APPROACH TO CLIMB TO 1100, THEN CLIMBING LEFT TURN TO 2600 DIRECT EON VORTAC AND HOLD. DELETED IGECY AND MANDATORY CROSSING ALTITUDE.
5. ADDED CHART CIRCLING ICON.
6. ADDED ALTERNATE MINIMUMS NOTE.
7. CHANGED CAT C CIRCLING FROM 1120-1 1/2 500 TO 1340-2 720 AND CIRCLING CAT D FROM 1180-2 560 TO 1340-2 1/4 720.
8. CHANGED LNAV/VNAV DA/HATH FROM 923/311 TO 952/340, RVR FROM 50 TO 60.
9. ADDED PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT ZEBKO.
10. UPDATED CIRCLING NIGHT RESTRICTION NOTE.

REASONS:

1. DEVELOPMENT OF RNAV (RNP) Y RWY 31C.
2-4. PER FPT, FIXES RELOCATED IAW 8260.54A, FORMULA 2-16B.
5-7. APPLIED 8260.3B, CHANGE 21 CIRCLING RADII.
8. ADJUSTMENT FOR SECTION 1 MISSED APPROACH PENETRATION.
9. ZEBKO NOT NOT TIED TO ENROUTE STRUCTURE.
10. REFLECTS CURRENT SURVEYED/DATABASE OBSTACLES.

QUALITY 2 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

RNAV - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.33

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NOTES, (CONT.):
CHART NOTE: CIRCLING TO RWY 31R NA AT NIGHT.
CHART PLANVIEW NOTE: RADAR REQUIRED FOR PROCEDURE ENTRY AT ZEBKO.
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 620 THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 31C
CHICAGO, IL	AIRPORT NAME: CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	AMDT: 2
				DATED: 01/10/2013

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

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	KMDW
RUNWAY	RW31C
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Z
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W31A
LTP/FTP LATITUDE	414650.0035N
LTP/FTP LONGITUDE	0874444.1175W
LTP/FTP ELLIPSOIDAL HEIGHT	+01531
FPAP LATITUDE	414751.4300N
FPAP LONGITUDE	0874610.4300W
THRESHOLD CROSSING HEIGHT (TCH)	00047.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0976
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	8C5F30A4

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01865
FPAP ORTHOMETRIC HEIGHT	+01865

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 620 THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 31C
CHICAGO, IL	AIRPORT NAME: CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	AMDT: 2
				DATED: 01/10/2013

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

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 2 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 PACKET - 424-18 - RNAV (GPS)

```
                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        CGT   K5011420VTL  N41303602W087341757    N41303602W087341757E0020006341     NARCHICAGO HEIGHTS
        SUSAD        EON   K5011320VTL  N41161068W087472779    N41161068W087472779E0020006891     NARPEOTONE

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   GLEAM K50    C     N41393561W087343583                    W0037     NAR          GLEAM
        SUSAEAENRT   HILLS K50    C     N41372540W087313418                    W0037     NAR          HILLS
        SUSAEAENRT   HOBEL K50    C     N41443481W087413443                    W0036     NAR          HOBEL
        SUSAEAENRT   RUNTS K50    C     N41425079W087390871                    W0037     NAR          RUNTS
        SUSAEAENRT   ZEBKO K50    W     N41260511W087155023                    W0039     NAR          ZEBKO

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMDWK5AMDW     0     065YHN41470950W087450870W001000620          1800018000C    MNAR    CHICAGO MIDWAY INTL

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMDWK5FR31CZ ACGT   010CGT  K5D 0V  A    IF                                          18000                A JS
        SUSAP KMDWK5FR31CZ ACGT   020GLEAMK5EA0EE B 010TF                   35960090    + 04000                      A JS
        SUSAP KMDWK5FR31CZ AZEBKO 010ZEBKOK5EA0E  A    IF                                          18000                A JS
        SUSAP KMDWK5FR31CZ AZEBKO 020HILLSK5EA0E    010TF                   31490164    + 05000                      A JS
        SUSAP KMDWK5FR31CZ AZEBKO 030GLEAMK5EA0EE B 010TF                   31470031    + 04000                      A JS
        SUSAP KMDWK5FR31CZ R      010GLEAMK5EA0E  I    IF                               + 04000     18000            A JS
        SUSAP KMDWK5FR31CZ R      011RUNTSK5EA0E S  051TF                   31470047    + 02500                      A JS
        SUSAP KMDWK5FR31CZ R      020HOBELK5EA1E  F 051TF                   31460025    + 01700                RW31C K5PGA JS
        SUSAP KMDWK5FR31CZ R      020HOBELK5EA2WALPV       ALNAV/VNAV ALNAV                                             JS
        SUSAP KMDWK5FR31CZ R      030RW31CK5PG0GY M 031TF                   31460033      00660          -300          A JS
        SUSAP KMDWK5FR31CZ R      040         0  M     CA                   3146        + 01100                      A JS
        SUSAP KMDWK5FR31CZ R      050EON  K5D 0VY  L    DF                               + 02600                      A JS
        SUSAP KMDWK5FR31CZ R      060EON  K5D 0VE  R    HM                   18100040    + 02600                      A JS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KMDWK5GRW31C   0065223146 N41465000W087444412-0100    +01531006120696481501

                1         2         3         4         5         6         7         8         9         0         1         2         3
PP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 620 THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 31C
CHICAGO, IL	AIRPORT NAME: **CHICAGO MIDWAY INTL**	**RNAV**	**RNAV (GPS) Z RWY 31C, AMDT 3**	AMDT: **2**
				DATED: **01/10/2013**

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

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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```
SUSAP KMDWK5PR31CZ RW31C001Z0000W31A0N4146500035W08744441175+015310300N4147514300W0874610430010675097600047 9F4005008C5F30A4
SUSAP KMDWK5PR31CZ RW31C002E      +01865+01865LPV       50512

                1         2         3         4         5         6         7         8         9         0         1         2         3
MSA     12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KMDWK5SRW31CK5PG              0   18018003425                                                                          M
```

QUALITY 2 CHECKED

CITY AND STATE	ELEVATION: 620 THRE: 612	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP: RNAV (GPS) RWY 31C
CHICAGO, IL	AIRPORT NAME: CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	AMDT: 2
				DATED: 01/10/2013

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

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:

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
	CGT	CGT	010	IAF	IF		FB					
	CGT	GLEAM	020		TF		FB	1.0	359.6(358.6T)	009.0	AA 04000	
	ZEBKO	ZEBKO	010	IAF	IF		FB					
	ZEBKO	HILLS	020		TF		FB	1.0	314.9(313.9T)	016.4	AA 05000	
	ZEBKO	GLEAM	030		TF		FB	1.0	314.7(313.7T)	003.1	AA 04000	
		GLEAM	010	FACF	IF		FB				AA 04000	
		RUNTS	011	SDF	TF		FB	0.5	314.7(313.7T)	004.7	AA 02500	
		HOBEL	020	FAF	TF		FB	0.5	314.6(313.6T)	002.5	AA 01700	
		RW31C	030	MAP	TF		FO	0.3	314.6(313.6T)	003.3	AT 00660	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		314.6(313.6T)		AA 01100	
	EON	050		DF	L	FO				AA 02600	
	EON	060		HM	R	FO		181.0(180.0T)	004.0	AA 02600	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	CGT	N413036.02	W0873417.57	N4130.600	W08734.293
	EON	N411610.68	W0874727.79	N4116.178	W08747.463
	GLEAM	N413935.61	W0873435.83	N4139.594	W08734.597
	HILLS	N413725.40	W0873134.18	N4137.423	W08731.570
	HOBEL	N414434.81	W0874134.43	N4144.580	W08741.574
	RUNTS	N414250.79	W0873908.71	N4142.847	W08739.145
	ZEBKO	N412605.11	W0871550.23	N4126.085	W08715.837
	RW31C	N414650.00	W0874444.12	N4146.833	W08744.735

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW31C	00612	48

CITY AND STATE	ELEVATION: 620 THRE: 612 / AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHICAGO, IL	CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	RNAV (GPS) RWY 31C
				AMDT: 2
				DATED: 01/10/2013

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

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.
INITIAL	ZEBKO	HILLS	1. TOWER (17-000525)	413750.00N/0873142.00W	1111 (5D)	1000	AT2889	5000
			2. TERRAIN	412736.00N/0871803.00W	732 (700)		AS1500	2200
INITIAL: STEPDOWN	HILLS	GLEAM	1. TOWER (17-000525)	413750.00N/0873142.00W	1111 (5D)	1000	AT1889	4000
			3. TERRAIN	413833.00N/0873415.00W	696 (700)		AS1500	2200
INITIAL	CGT VORTAC	GLEAM	4. TOWER (17-000116)	413444.00N/0873246.00W	1020 (5D)	1000	AT1980	4000
			3. TERRAIN	413833.00N/0873415.00W	696 (700)		AS1500	2200
INTERMEDIATE	GLEAM	RUNTS	5. TOWER (17-000730)	414216.00N/0873926.00W	889 (5D)	500	AT1111	2500
			6. TERRAIN	413924.00N/0873454.00W	676 (700)		AS1500	2200
INTERMEDIATE:	RUNTS	HOBEL	5. TOWER (17-000730)	414216.00N/0873926.00W	889 (5D)	500		1400
STEPDOWN			7. TERRAIN	414409.00N/0874048.00W	683 (700)		AS1000	1700
FINAL: LPV	HOBEL	RW31C	8. POLE (KMDWT000872)	414640.81N/0874430.03W	647 (1A)	34:1		862/250
FINAL: LNAV/VNAV	HOBEL	RW31C	9. ANT (KMDW0136)	414717.55N/0874418.87W	762 (1A)	PDA	MA29	952/340
FINAL: LNAV	HOBEL	RW31C	9. ANT (KMDW0136)	414717.55N/0874418.87W	762 (1A)	250		1020
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / RW31C	EON VORTAC	10. STACK (17-001632)	414606.00N/0874537.00W	811 (1A)	ASC		2600
			11. TOWER (17-000002)	413320.00N/0875055.00W	1330 (2D)	1000		2400
ELEV:	675/762/920		12. TERRAIN	412509.00N/0874721.00W	811 (800)		AS1500	2300

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL						
CATEGORY A	1.3 NM	350	500	10. STACK (17-001632)	414606.00N/0874537.00W	811 (1A)	300		1120
CATEGORY B	1.5 NM	450	500	10. STACK (17-001632)	414606.00N/0874537.00W	811 (1A)	300		1120
CATEGORY C	1.7 NM	450	720	13. STACK (17-000109)	414945.00N/0874324.00W	978 (5D)	300	AC50	1340
CATEGORY D	2.3 NM	550	720	13. STACK (17-000109)	414945.00N/0874324.00W	978 (5D)	300	AC50	1340
CATEGORY E	4.5 NM	550							

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW31C

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	BLDG (17-000687)	041/ 07.7	2325 (2D)	3400					

CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CHICAGO, IL	ELEVATION: 620 AIRPORT NAME: CHICAGO MIDWAY INTL	RNAV	RNAV (GPS) Z RWY 31C, AMDT 3	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
ZAU ARTCC ORD APP CON MDW TOWER	[ ] N W S OTHER: FSS [ ] F A A [ ] A / C	SOURCE: KMDW DISTANCE: HOURS REMOTE OPERATION:
SATISFACTORY ON:		
[X] V H F [X] U H F [ ] H F	LOCATION: KMDW	ADJUSTMENT: 0

4. MONITOR STATUS

PRIMARY NAVAID:

MONITOR POINT:

HRS OPTN: CAT 1 / CAT 3

5. APPROACH & RUNWAY LIGHTING

[ ]	ALS
[ ]	(S) SALS
[ ]	MALS
[X]	HIRL 31C, 04R, 13C, 22L
[X]	MIRL 13L, 22R, 04L, 31L, 31R, 13R
[X]	REIL 31C, 04R, 22L
[ ]	TDZ
[ ]	C/LINE
[X]	OTHER (SPECIFY) PAPI-4R 22R, 13C, 22L PAPI-4L 31C, 04R, 04L, 31R LDIN 31C, 13C

6. RUNWAY MARKINGS

BASIC	BSC-G 31L, 13R
ALL WEATHER	PIR-G 31C, 04R, 13C, 22L
INSTRUMENT	NPI-G 13L, 22R, 04L, 31R

7. RUNWAY VISUAL RANGE

APPROACH	31C, 04R, 13C
MIDFIELD	
ROLL OUT	31C, 13C

8. GLIDE PATH

GP ANGLE: 3.00	ELEV RWY THRESHOLD: 611.9
DISTANCE FROM RWY:	ELEV GP ANTENNA:
	THRESHOLD CROSSING HEIGHT: 47.9

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:
STEVE NELSON	01/25/2013
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

TERPS PARAGRAPH 289 APPLIED TO 838 TOWER 414415N/0874201W

NO ADDITIONAL AIRSPACE REQUIRED.

BACKUP ALTIMETER SOURCE NOT UTILIZED. KMDW HAS REDUNDANT WEATHER SOURCING.

HOBEL TO HILLS FIX PLACEMENT DEVELOPED UTILIZING 8260.54A, FORMULA 2-16B.

LPV SURFACE 34:1
LNAV/VNAV SURFACE 23.975:1

VGSI DATA: 3.00/63.4.

TAA NOT DEVELOPED PER FPT.

ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.
CAT A: 1.30NM
CAT B: 1.83NM
CAT C: 2.87NM
CAT D: 3.75NM

ACT = -21C
ISA DEVIATION = -34.77
AVERAGE COLD TEMPERATURE BASED ON 5-YEAR HISTORY (2007-2011). 2012'S DATA WAS NOT COMPLETE.
BARO VNAV HIGH TEMP CALCULATED PER AFS MEMO/FORMULA DATED MAY 30, 2012.

LPV, LNAV/VNAV, AND LNAV INTERMEDIATE OBS ARE THE SAME. FOR CONTINUITY, TERRAIN COORDINATES REFLECT THE HIGHEST TERRAIN IDENTIFIED.

ORDER 8260.3, VOLUME 1, "VISUAL PORTION OF FINAL" PENETRATIONS:
RWY 31C, 34:1:
649 TREE (KMDWT000830) 414645.92N/0874428.22W (8.95)
639 CHY (KMDW0082) 414640.22N/0874439.90W (6.11)
641 BLDG (KMDWT000817) 414646.31N/0874429.01W (3.03)
630 BLDG (17-020563) 414641.64N/0874441.39W (2.43)
645 BLDG (KMDWT000856) 414644.58N/0874427.00W (0.24)

RWY 31R, 20:1:
658 TREE (KMDWT000517) 414651.96N/0874429.96W (15.00)
662 TREE (KMDWT000501) 414651.42N/0874428.42W (12.89)
675 TREE (KMDW0115) 414650.16N/0874425.15W (12.52)
634 POLE (KMDWT000543) 414655.18N/0874433.26W (11.28)
631 POLE (KMDWT000544) 414655.74N/0874433.28W (10.28)
665 TREE (KMDWT000485) 414649.26N/0874429.02W (10.01)
655 TREE (KMDWT000510) 414652.26N/0874428.47W (8.95)
646 POLE (KMDWT000527) 414652.46N/0874430.49W (6.19)
657 TREE (KMDWT000494) 414651.15N/0874427.78W (5.19)
660 TREE (KMDWT000486) 414650.33N/0874427.67W (5.03)
630 POLE (KMDWT001018) 414655.14N/0874431.94W (3.51)
646 POLE (KMDWT000515) 414651.48N/0874430.45W (2.67)
649 POLE (KMDWT000507) 414650.50N/0874430.32W (1.90)
632 POLE (KMDWT000540) 414654.15N/0874431.74W (1.51)
650 TREE (KMDWT000500) 414651.81N/0874427.83W (0.63)
626 POLE (KMDWT000542) 414654.47N/0874433.16W (0.53)
641 BLDG (KMDWT001019) 414653.29N/0874429.04W (0.11)

RADIO FIX AND HOLDING DATA RECORD

NAME: GLEAM **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 413935.61N/0873435.83W **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	CHICAGO MIDWAY	I-MXT	LOC/DME		134.57	133.57	11.48	11.49		4000	5100
2	CHICAGO HEIGHTS	CGT	VORTAC	L	356.55	358.55		8.99		4000	5100

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

REMARKS:
CHICAGO HEIGHTS (FAC 2) AND CHICAGO MIDWAY (FAC 1) USED TO ESTABLISH FIX COORDINATES
I-MXT DME LAT/LONG: 414733.12N/0874538.78W
LOCATION IAW 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31C	1, 2		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
1. RELOCATED FIX 0.28NM (1691.06') SOUTHEAST.
2. CORRECTED FAC 1 MAG/TRUE BRG FROM 135.57/134.57 TO 134.57/133.57.
3. CHANGED FAC 1 DME FROM 11.20 TO 11.48 AND DIST FROM FAC NM FROM 11.21 TO 11.49.
4. CHANGED FAC 2 MAG/TRUE BRG FROM 355.32/357.32 TO 356.55/358.55, DIST FROM FAC NM FROM 9.21 TO 8.99, AND MAA FROM 17500 TO 5100.
5. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/16/2013 **OFFICE:** AJV-353 **NAME:** STEVE NELSON

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD APP CON, MDW ATCT
OTHER:

RADIO FIX AND HOLDING DATA RECORD

NAME: HILLS **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 413725.40N/0873134.18W **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	CHICAGO MIDWAY	I-MXT	LOC/DME		134.57	133.57	14.62	14.63		5000	5100
2	CHICAGO HEIGHTS	CGT	VORTAC	L	014.67	016.67		7.12		5000	17500

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

REMARKS:
CHICAGO HEIGHTS (FAC 2) AND CHICAGO MIDWAY (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31C	1, 2		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C			KMDW	CHICAGO	IL (US)
STAR	FISSK (RNAV)			KMDW	CHICAGO	IL (US)
STAR	PANGG (RNAV)			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: STAR, IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 6 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
UPDATED FIX COORDINATES; FIX MOVED 3147 FT SOUTHEAST.
CHANGED FAC 1 DME FROM 14.10 TO 14.62 AND DIST FROM FAC FROM 14.11 TO 14.63.
CHANGED FAC 2 MAG/TRUE BRG FROM 011.08/013.08 TO 014.67/016.67 AND DIST FROM 7.37 TO 7.12.
ADD FIX USE.
ADD STAR TO REQUIRED CHARTING.

DEVELOPED BY: **DATE:** 01/16/2013 **OFFICE:** AJV-353 **NAME:** THOMAS KIRKPATRICK

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD APP CON, MDW ATCT
OTHER:

QUALITY 2 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: RUNTS **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 414250.79N/0873908.71W **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	CHICAGO MIDWAY	I-MXT	LOC/DME		134.57	133.57	6.77	6.78		2500	5100

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

REMARKS:
I-MXT DME LAT/LONG: 414733.12N/0874538.78W
LOCATION IAW 8260.54A FORMULA 2-16B.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31C	1		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 7 **DATE OF REVISION:** 06/27/2013

REASON FOR REVISION:
1. RELOCATED FIX 0.03NM (191.95') NORTHWEST.
2. CHANGED FAC 1 DME FROM 6.80 TO 6.77 AND DIST FROM FAC NM FROM 6.81 T0 6.78.
3. UPDATED FIX USE.

DEVELOPED BY: **DATE:** 01/16/2013 **OFFICE:** AJV-353 **NAME:** STEVE NELSON

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD APP CON, MDW ATCT
OTHER:

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: CHICAGO HEIGHTS VORTAC **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 413036.02N/0873417.57W **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	CHICAGO HEIGHTS	CGT	VORTAC	L							17500

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	SE	CGT	VORTAC	156.00	336.00	R	1		2300	6000	4	5
2	SW	CGT	VORTAC	223.93	043.93	R	1		2300	6000	4	5
3	SW	CGT	VORTAC	226.27	046.27	R	1		2300	6000	4	5
4	W	CGT	VORTAC	263.90	083.90	R	1		2300	6000	4	5
5	SW	CGT	VORTAC	229.20	049.20	R	1		2300	6000	4	5
6	NW	CGT	VORTAC	332.74	152.74	R	1		2300	6000	4	5

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
UPN	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
1	200	TOWER (18-000501)	412552.00N/0872937.00W	1103	5D
2	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
3	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
4	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
5	200	TOWER (17-002211)	412715.00N/0874322.00W	1290	5D
6	200	TOWER (17-002719)	413715.00N/0874055.00W	1049	5D

HOLDING RESTRICTIONS:
UNPLANNED HOLDING AUTHORIZED AT OR ABOVE 2800.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
EN ROUTE	V422					(US)
EN ROUTE	V51					(US)
EN ROUTE	V7					(US)
EN ROUTE	V8					(US)
EN ROUTE	V92					(US)
EN ROUTE	V97					(US)
IAP	LOC RWY 36		6	KIGQ	CHICAGO	IL (US)
IAP	VOR-A		5	KIGQ	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 13C		2	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 4R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22R			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 31R			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 4L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 10			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 14L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 14R			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 22L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 27L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 32L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 32R			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 4R			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 9L			KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 9R			KORD	CHICAGO	IL (US)
IAP	ILS RWY 10 (CAT II)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 10 (CAT III)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 14L (CAT II, III)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 14R (CAT II, III)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 27L (CAT II, III)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 9L (CAT II)			KORD	CHICAGO	IL (US)
IAP	ILS RWY 9L (CAT III)			KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 32L			KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 32R			KORD	CHICAGO	IL (US)
IAP	LOC/DME RWY 09			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 27			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 27			KC56	MONEE	IL (US)
IAP	RNAV (GPS) RWY 9			KC56	MONEE	IL (US)
IAP	COPTER ILS RWY 30		1	KGYY	GARY	IN (US)
IAP	ILS OR LOC RWY 30		1	KGYY	GARY	IN (US)

QUALITY 2 CHECKED

IAP	NDB OR GPS RWY 30	1	KGYY	GARY	IN (US)
IAP	RNAV (GPS) RWY 30		KGYY	GARY	IN (US)
IAP	VOR/DME OR GPS RWY 2	3	KGYY	GARY	IN (US)
IAP	RNAV (GPS) RWY 26		K05C	GRIFFITH	IN (US)
IAP	VOR RWY 8	4	K05C	GRIFFITH	IN (US)
IAP	VOR OR GPS-A		KC97	LOWELL	IN (US)
IAP	ILS RWY 27		KVPZ	VALPARAISO	IN (US)
IAP	RNAV (GPS) RWY 27		KVPZ	VALPARAISO	IN (US)
STAR	GOSHEN		KIGQ	CHICAGO	IL (US)
STAR	BOILER		KMDW	CHICAGO	IL (US)
STAR	FISSK		KMDW	CHICAGO	IL (US)
STAR	GOSHEN		KMDW	CHICAGO	IL (US)
STAR	BOILER		KGYY	GARY	IN (US)
STAR	GOSHEN		KGYY	GARY	IN (US)
STAR	GOSHEN		K05C	GRIFFITH	IN (US)
STAR	GOSHEN		K3HO	HOBART	IN (US)

REQUIRED CHARTING: STAR, IAP, AREA, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 18 **DATE OF REVISION:** 11/18/2010

REASON FOR REVISION:
UPDATED FIX USE.
UPDATED HOLDING OBSTRUCTION IDS FOR ALL PATS.
CONDUCTED/DOCUMENTED PRECIPITOUS TERRAIN EVALUATION.

DEVELOPED BY: **DATE:** 03/16/2010 **OFFICE:** AVN-120 **NAME:** PATRICK HARRINGTON

APPROVED BY: **DATE:** 08/03/2010 **OFFICE:** AVN-120 **NAME:** SUE CRUMB

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD, MDW
OTHER:

QUALITY 2 CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: HOBEL **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 414434.81N/0874134.43W **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	CHICAGO MIDWAY	I-MXT	LOC/DME		134.57	133.57	4.26	4.27	25934	1700	5100

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 31C	1		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
UPDATED FIX COORDINATES; FIX MOVED 176.48 FT SOUTHEAST.
REMOVED FAC 2.
FAC 1 TRUE BRG CHANGED FROM 133.56 TO 133.57.
FAC 1 DME DISTANCE CHANGED FROM 4.23 TO 4.26.
ADDED DISTANCE FROM FAC 1 IN NM AND FT.
UPDATED FIX USE FORMAT.
REMOVED REMARKS FOR DISPLACED THRESHOLD, DME ANTENNA, AND RNP CRITERIA.

DEVELOPED BY: **DATE:** 08/06/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

APPROVED BY: **DATE:** 11/30/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD APP CON, MDW ATCT
OTHER:

QUALITY 2 CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: IGECY **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 413606.87N/0874604.24W **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	PEOTONE	EON	VORTAC	L	001.00	003.00	19.95	19.95		2000	17500
2	CHICAGO HEIGHTS	CGT	VORTAC	L	300.00	302.00	10.42	10.42		2000	17500

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

REMARKS:
CHICAGO HEIGHTS (FAC 2) AND PEOTONE (FAC 1) USED TO ESTABLISH FIX COORDINATES

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC/DME RWY 13C	1, 2		KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 31C	1, 2		KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 4R	1, 2		KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13C			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22R			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 31R			KMDW	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 4 **DATE OF REVISION:** 01/10/2013

REASON FOR REVISION:
ADDED NM DISTANCE FROM FAC FOR FAC 1 AND 2.
REMOVED CHICAGO HEIGHTS VORTAC USED TO ESTABLISH WAYPOINT REMARK.
ADDED FACILITIES USED TO ESTABLISH FIX COORDINATES.
UPDATED FIX USE.

DEVELOPED BY: **DATE:** 08/07/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

APPROVED BY: **DATE:** 11/30/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY:
OTHER: ORD APP CON, MDW ATCT

QUALITY 2 CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: PEOTONE VORTAC **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 411610.68N/0874727.79W **TYPE:**

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	PEOTONE	EON	VORTAC	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	N	EON	VORTAC	001.00	181.00	R	1		2600	6000	4	5
2	N		WP	001.00	181.00	R		4	2600	6000	5	6

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-001091)	411804.00N/0874935.00W	1236	5D
2	200	TOWER (17-001091)	411804.00N/0874935.00W	1236	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPTIOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
DP	CICERO			KMDW	CHICAGO	IL (US)
DP	O'HARE			KORD	CHICAGO	IL (US)
DP	PAL-WAUKEE			KPWK	CHICAGO/PROSPECT HGTS/WHEELING	IL (US)
EN ROUTE	V156					(US)
EN ROUTE	V171					(US)
EN ROUTE	V173					(US)
EN ROUTE	V24-399					(US)
EN ROUTE	V38					(US)
IAP	LOC RWY 36			KIGQ	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 36			KIGQ	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 9			KIGQ	CHICAGO	IL (US)
IAP	VOR-A			KIGQ	CHICAGO	IL (US)
IAP	BOILER			KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 13C		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 31C		1	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC/DME RWY 4R		1	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 13L		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 22		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 31R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 4L			KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 4R		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 13C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) Z RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 13C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (RNP) Y RWY 31C		2	KMDW	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 2			KLOT	CHICAGO/ROMEOVILLE	IL (US)
IAP	RNAV (GPS) RWY 16			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 22			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 34			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 22			KIKK	KANKAKEE	IL (US)
IAP	VOR RWY 4			KIKK	KANKAKEE	IL (US)
IAP	RNAV (GPS) RWY 27		2	KC56	MONEE	IL (US)
IAP	RNAV (GPS) RWY 9		2	KC56	MONEE	IL (US)
IAP	VOR-A			KC09	MORRIS	IL (US)
IAP	VOR/DME OR GPS RWY 2			KGYY	GARY	IN (US)
IAP	VOR OR GPS-A			K50I	KENTLAND	IN (US)
IAP	VOR OR GPS-A		1	KC97	LOWELL	IN (US)
STAR	GOSHEN			KMDW	CHICAGO	IL (US)
STAR	MOTIF			KMDW	CHICAGO	IL (US)
STAR	MOTIF			KGYY	GARY	IN (US)

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

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 13 **DATE OF REVISION:** 01/10/2013

QUALITY 2 CHECKED

REASON FOR REVISION:
UPDATED FAC 1 TO MOVE FROM HISTORY TO ACTIVE FOR CODING.

DEVELOPED BY:	**DATE:** 08/21/2012	**OFFICE:** AJV-353	**NAME:** JILL OLSON (DAVID DANNER)
APPROVED BY:	**DATE:** 11/30/2012	**OFFICE:** AJV-353	**NAME:** LARRY STROUT
	SIGNATURE:		

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: ORD APP CON, MDW ATCT
OTHER:

QUALITY 2 CHECKED

"INFO ONLY"

RADIO FIX AND HOLDING DATA RECORD

NAME: ZEBKO **STATE:** IN **COUNTRY:** US

LATITUDE/LONGITUDE: 412605.11N/0871550.23W **TYPE:** WP

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) Z RWY 31C			KMDW	CHICAGO	IL (US)

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: ORIG **DATE OF REVISION:** 01/10/2013

DEVELOPED BY: **DATE:** 08/02/2012 **OFFICE:** AJV-353 **NAME:** JILL OLSON (DAVID DANNER)

APPROVED BY: **DATE:** 11/30/2012 **OFFICE:** AJV-353 **NAME:** LARRY STROUT

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: CEN
ARTCC: ZAU
ATC FACILITY: MDW ATCT, ORD APP CON
OTHER:

QUALITY 2 CHECKED