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
BLUTO (IF)	ROCSE (FB)	273.18 / 2.86	6000
ROCSE	WAVIE (FB)	273.14 / 2.91	5000
WAVIE	ADAME (FB)	273.09 / 2.95	4000
ADAME	WILLT (FB)	273.05 / 5.43	2200
WILLT (FAF)	FIDAK/1.90 NM TO RW28 (FB)	272.97 / 2.74	
FIDAK/1.90 NM TO RW28	RW28 (MAP) (FO)	272.93 / 1.90	
(SEE FORM 8260-10)			

MISSED APPROACH

LPV: DA
LNAV/VNAV: DA
LNAV: RW28

CLIMB TO 1200 THEN CLIMBING LEFT TURN TO 4000 DIRECT LISKE AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT BLUTO
3. FAC: 272.97 FAF: WILLT DIST FAF TO MAP: 4.64 THLD: 4.64
4. MIN. ALT: BLUTO 7000, ROCSE 6000, WAVIE 5000, ADAME 4000, WILLT 2200, FIDAK/1.90 NM TO RW28 1300*
5. DIST TO THLD FROM OM: ____ MM: ____ IM: ____ 150 HAT: ____ 100 HAT: ____ GS ANT: ____
6. MIN GS INCPT: 2200 GS ALT AT: WILLT 2200 OM: ____ MM: ____ IM: ____
7. GS ANGLE: 3.00 TCH: 50.8 34:1 IS CLEAR
8. MSA FROM: RW28 3400

ADDITIONAL FLIGHT DATA:
HOLD S, RT, 008.38 INBOUND.
CHART FAS OBST: 781 BLDG 415830N/0875149W
CHART FAS OBST: 794 BLDG 415838N/0875030W
DISTANCE TO THLD FROM 294 HATH: 0.76 NM.
CHART VDP AT 1.16 MILES TO RW28*
*LNAV ONLY.
WAAS CHANNEL # 42804
REFERENCE PATH ID: W28A
LTP HAE: 165 M

MAG VAR: 3W EPOCH YEAR: 2010

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT ALTERNATE: N A STANDARD

CATEGORY =====>	A			B			C			D			E		
	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA	DH/MDA	VIS	HAT/HAA
LPV DA	945	2400	294	945	2400	294	945	2400	294	945	2400	294			
LNAV/VNAV DA	1133	6000	482	1133	6000	482	1133	6000	482	1133	6000	482			
LNAV MDA	1100	2400	449	1100	2400	449	1100	4500	449	1100	4500	449			
CIRCLING	1220	1	548	1220	1	548	1220	1 1/2	548	1240	2	568			

NOTES:
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -22C (-7F) OR ABOVE 35C (95F).
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 27L/R.
CHART NOTE: DME/DME RNP-0.3 NA.
CHART PLANVIEW NOTE: RADAR REQUIRED.
(SEE FORM 8260-10)

QUALITY CHECKED 1

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AMDT: 2C
				DATED 03/08/2012

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

COORDINATED WITH:

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

FLIGHT CHECKED BY		
NAME:	FIFO	DATE:

DEVELOPED BY		
NAME: **HERMAN C. ROGERS**	FIFO **AJV-353**	DATE: **01/11/2012**

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

CHANGES:

1. MISSED APPROACH CHANGED FROM CLIMB TO 4000 DIRECT BLUTO AND HOLD TO CLIMB TO 1200 THEN CLIMBING RIGHT TURN TO 4000 DIRECT LISKE AND HOLD.
2. ADDED NOTE, FOR INOPERATIVE ALSF-2, INCREASE LPV VISIBILTY TO RVR 4500 ALL CATS .
3. CHANGED LNAV CAT C VIS FROM 4000 TO 4500 AND CAT D VIS FROM 5000 TO 4500 AND VDP DIST FROM 1.19 TO 1.16.
4. CHANGED BARO-VNAV NA NOTE FROM NA BELOW -16C(4F) OR ABOVE 47C(116F) TO NA BELOW -22C(-7F) OR ABOVE 35C(95F).
5. ADDED NOTES,SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 27L AND 27R, LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS, USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.
6. CHANGED SIMULTANEOUS APPROACH AUTHORIZED NOTE.
7. NEW COURSE WIDTH AT THRESHOLD (1117.75 TO 106.75) AND NEW CRC REMAINDER (C803E0E TO 1EBF7D89).

REASONS:

1. MISSED APPROACH CHANGED PER FPT/ATC TO ALLOW SIMULTANEOUS APPROACHES PER SIPIA MEMO.
2/3/4. FINAL DEVELOPED TO THRE PER TERPS CHANGE 20 AND .54A CRITERIA.
5. IN SUPPORT OF SIMULTANEOUS OPERATIONS.
6. 8260.19E WORDING.
7. NEW COURSE WIDTH AT THRESHOLD CHANGED THE CRC REMAINDER.
PDF EDITS:
1. ADDED FAF TO WILLT.
2. DELETED RNP 2.0 FROM ARINC MISSED APPROACH CODING.
3. DELETED ALTITUDE *1300 IN TERMINAL ROUTE FROM WILLT TO FIDAK.
4. DELETED NA IN LINE 1.

QUALITY CHECKED 1

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TERMINAL ROUTES, (CONT.):

FROM	TO	COURSE AND DISTANCE	ALTITUDE
RW28 (MAP)	1200 MSL	272.93	1200
1200 MSL	LISKE (FO)		4000

NOTES, (CONT.):
CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.
*LNAV ONLY
CHART NOTE: FOR INOPERATIVE ALSF, INCREASE LPV VISIBILTY TO RVR 4500 ALL CATS .
CHART NOTE: LNAV PROCEDURE NA DURING SIMULTANEOUS OPERATIONS.
CHART NOTE: USE OF FD OR AP PROVIDING RNAV TRACK GUIDANCE REQUIRED DURING SIMULTANEOUS OPERATIONS.

QUALITY CHECKED

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AMDT: 2C
				DATED: 03/08/2012

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	KORD
RUNWAY	RW28
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W28A
LTP/FTP LATITUDE	415808.6525N
LTP/FTP LONGITUDE	0875301.4235W
LTP/FTP ELLIPSOIDAL HEIGHT	+01650
FPAP LATITUDE	415808.3810N
FPAP LONGITUDE	0875553.5135W
THRESHOLD CROSSING HEIGHT (TCH)	00050.8
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	1EBF7D89

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01985
FPAP ORTHOMETRIC HEIGHT	+01985

QUALITY 1 CHECKED

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AMDT: 2C
				DATED: 03/08/2012

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
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   ADAME K50    C     N41580891W087393118                      W0036     NAR           ADAME
        SUSAEAENRT   BLUTO K50    C     N41580785W087274993                      W0038     NAR           BLUTO
        SUSAEAENRT   FIDAK K50    W     N41580882W087502860                      W0035     NAR           FIDAK
        SUSAEAENRT   LISKE K50    C   L N41450544W087574554                      W0033     NAR           LISKE
        SUSAEAENRT   ROCSE K50    C     N41580833W087314019                      W0037     NAR           ROCSE
        SUSAEAENRT   WAVIE K50    C     N41580869W087353389                      W0037     NAR           WAVIE
        SUSAEAENRT   WILLT K50    C     N41580897W087464791                      W0035     NAR           WILLT

                 1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5AORD     0     130YHN41585394W087542402W003000672         1800018000C    MNAR    CHICAGO O'HARE INTL

                 1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5FR28   R      010BLUTOK5EA0E  I    IF                                          18000                A JS
        SUSAP KORDK5FR28   R      011ROCSEK5EA0E S  051TF                     27320029    + 06000                      A JS
        SUSAP KORDK5FR28   R      012WAVIEK5EA0E S  051TF                     27310029    + 05000                      A JS
        SUSAP KORDK5FR28   R      013ADAMEK5EA0E S  051TF                     27310030    + 04000                      A JS
        SUSAP KORDK5FR28   R      020WILLTK5EA1E  F 051TF                     27310054    + 02200                RW28  K5PGA JS
        SUSAP KORDK5FR28   R      020WILLTK5EA2WALPV        ALNAV/VNAV ALNAV                                              JS
        SUSAP KORDK5FR28   R      021FIDAKK5EA0E S  031TF                     27300027    V 0130001307       -300       A JS
        SUSAP KORDK5FR28   R      030RW28 K5PG0GY M 031TF                     27290019      00702            -300       A JS
        SUSAP KORDK5FR28   R      040         0  M     CA                     2729        + 01200                      A JS
        SUSAP KORDK5FR28   R      050LISKEK5EA0EY  L   DF                                 + 04000                      A JS
        SUSAP KORDK5FR28   R      060LISKEK5EA0EE  R   HM                     00840040    + 04000                      A JS

                 1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5GRW28    0130012729 N41580865W087530142+0200    +0165000651000051150I

                 1         2         3         4         5         6         7         8         9         0         1         2         3
PP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------------
        SUSAP KORDK5PR28   RW28 001 0000W28A0N4158086525W08753014235+016500300N4158083810W08755535135106750000000508F4005001EBF7D89
        SUSAP KORDK5PR28   RW28 002E      +01985+01985LPV       42804

                 1         2         3         4         5         6         7         8         9         0         1         2
MSA     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
                                                                                                                                        1
```

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: **CHICAGO O'HARE INTL**	**RNAV**	**RNAV (GPS) RWY 28, AMDT 2D**	AMDT: **2C**
				DATED: **03/08/2012**

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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```
SUSAP KORDK5SRW28 K5PG          0   18018003425                                    M
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AMDT: 2C
				DATED: 03/08/2012

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
		BLUTO	010	FACF	IF		FB					
		ROCSE	011	SDF	TF		FB	0.5	273.2(270.2T)	002.9	AA 06000	
		WAVIE	012	SDF	TF		FB	0.5	273.1(270.1T)	002.9	AA 05000	
		ADAME	013	SDF	TF		FB	0.5	273.1(270.1T)	003.0	AA 04000	
		WILLT	020	FAF	TF		FB	0.5	273.1(270.1T)	005.4	AA 02200	
		FIDAK	021	SDF	TF		FB	0.3	273.0(270.0T)	002.7	AA 01300 GS 01307	
		RW28	030	MAP	TF		FO	0.3	272.9(269.9T)	001.9	AT 00702	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		272.9(269.9T)		AA 01200	
	LISKE	050		DF	L	FO				AA 04000	
	LISKE	060		HM	R	FO		008.4(005.4T)	004.0	AA 04000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	ADAME	N415808.91	W0873931.18	N4158.149	W08739.520
	BLUTO	N415807.85	W0872749.93	N4158.131	W08727.832
	FIDAK	N415808.82	W0875028.60	N4158.147	W08750.477
	LISKE	N414505.44	W0875745.54	N4145.091	W08757.759
	ROCSE	N415808.33	W0873140.19	N4158.139	W08731.670
	WAVIE	N415808.69	W0873533.89	N4158.145	W08735.565
	WILLT	N415808.97	W0874647.91	N4158.150	W08746.799
	RW28	N415808.65	W0875301.42	N4158.144	W08753.024

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW28	00651	51

QUALITY CHECKED

CITY AND STATE	ELEVATION: 672 THRE: 651	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
CHICAGO, IL	AIRPORT NAME: CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AMDT: 2C
				DATED: 03/08/2012

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.
INTERMEDIATE	BLUTO	ROCSE	1. 206' SHIP	415717.00N/0873127.00W	784 (2C)	500	AT4716	6000
			2. TERRAIN	415717.00N/0873127.00W	578 (600)		AS1500	2100
INTERMEDIATE:	ROCSE	WAVIE	1. 206' SHIP	415717.00N/0873127.00W	784 (2C)	500	AT3716	5000
STEPDOWN			2. TERRAIN	415717.00N/0873127.00W	578 (600)		AS1500	2100
INTERMEDIATE:	WAVIE	ADAME	3. BLDG (17-001415)	415714.00N/0873847.00W	1267 (3C)	500	AT2233	4000
STEPDOWN			4. TERRAIN	415750.00N/0873801.00W	636 (600)		AS1500	2100
INTERMEDIATE:	ADAME	WILLT	3. BLDG (17-001415)	415714.00N/0873847.00W	1267 (3C)	500	AT433	2200
STEPDOWN			5. TERRAIN	415721.00N/0874642.00W	630 (600)		AS1500	2100
FINAL: LPV	WILLT	RW28				ASC	XP94	945/294
FINAL: LNAV/VNAV	WILLT	RW28	6. BLDG	415829.85N/0875148.83W	781 (1A)	PDA	XP191	1133/482
FINAL: LNAV	WILLT	FIDAK/1.90 NM TO RW28	7. AAO	415728.30N/0874754.40W	844 (2C)	250	DG206	1300
FINAL: LNAV STEPDOWN	FIDAK/1.90 NM TO RW28	RW28	8. BLDG (17-006195)	415838.00N/0875030.00W	794 (4D)	250	AC50	1100
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / RW28	LISKE				ASC		4000
			9. TOWER (17-003567)	414904.71N/0875919.53W	1249 (5D)	1000		2300
ELEV:	737/972/1000		10. TERRAIN	414454.00N/0875948.00W	794 (800)			2300
			11. ATCT (17-021308) (1	415946.43N/0875456.75W	914 (1A)	300		1220
			11. ATCT (17-021308) (1	415946.43N/0875456.75W	914 (1A)	300		1220
			11. ATCT (17-021308) (1	415946.43N/0875456.75W	914 (1A)	300		1220
			11. ATCT (17-021308) (1	415946.43N/0875456.75W	914 (1A)	300	HAA	1240

4. CIRCLING AREA	DISTANCE	HT. ABV. ARPT. REQUIRED	HT. ABV. ARPT. ACTUAL
CATEGORY A	1.3 NM	350	548
CATEGORY B	1.5 NM	450	548
CATEGORY C	1.7 NM	450	548
CATEGORY D	2.3 NM	550	568
CATEGORY E	4.5 NM	550	

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: RW28

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	BLDG (17-000687)	119/ 12.4	2325 (2D)	3400					

CITY AND STATE	ELEVATION: 672 / AIRPORT NAME:	FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CHICAGO, IL	CHICAGO O'HARE INTL	RNAV	RNAV (GPS) RWY 28, AMDT 2D	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE		3. ALTIMETER SETTING
ZAU ARTCC ORD TOWER CHICAGO APP CON	N W S F A A A / C	OTHER: ASOS	SOURCE: KORD DISTANCE: HOURS REMOTE OPERATION:
SATISFACTORY ON: X VHF X UHF H F	LOCATION: KORD		ADJUSTMENT: 0

4. MONITOR STATUS	PRIMARY NAVAID:	
	MONITOR POINT:	
	HRS OPTN:	CAT 1
		CAT 3
5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 28C, 09L, 10, 28, 14L, 27L, 14R, 10C, 27C, 09R, 10R, 09C, 28L, 27R
		(S) SALS
	X	MALSR 04R, 22R, 32R, 22L
	X	HIRL 28C, 09L, 10, 28, 04R, 14L, 27L, 14R, 10C, 22R, 32R, 27C, 04L, 32L, 09R, 10R, 22L, 09C
		MIRL
		REIL
	X	TDZ 09L, 10, 28, 04R, 14L, 14R, 22R, 32R, 32L, 22L, 27R
	X	C/L 09L, 10, 28, 04R, 14L, 14R, 22R, 32R, 04L, 32L, 22L, 27R
	X	OTHER (SPECIFY) PAPI-4L 28C, 10, 28, 14L, 14R, 10C, 22R, 22L
6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 10, 28, 04R, 14L, 14R, 22R, 32R, 04L, 32L, 22L
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	09L, 10, 28, 04R, 14L, 14R, 22R, 32R, 04L, 32L, 22L, 27R
	MIDFIELD	09L, 10, 28, 14L, 14R, 32R, 32L, 22L, 27R
	ROLL OUT	09L, 10, 28, 04R, 14L, 14R, 22R, 32R, 04L, 32L, 22L, 27R
8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 651.3
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT: 50.8
9. FINAL APPROACH COURSE AIMING	X	RUNWAY THRESHOLD FT. FROM THRESHOLD
	X	ON CENTERLINE FT. FROM CENTERLINE

10. WAIVERS: NONE

PART D - PREPARED BY: HERMAN C. ROGERS	DATE: 01/11/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

AIRSPACE LETTER NOT INCLUDED; PROCEDURE RETAINED WITHIN CLASS B AIRSPACE TO THE SAME EXTENT AS PREVIOUS AMENDMENT.

PER AIR TRAFFIC REQUEST, RADAR VECTORS TO JOIN SIAP; NO FEEDERS.

INTERMEDIATE STEPDOWN FIXES ESTABLISHED AT AIR TRAFFIC REQUEST; SATISFIES DESCENT GRADIENT AND SIMULTANEOUS OPERATIONS. FUTURE RNP DEVELOPMENT CONSIDERED.

TAA NOT ESTABLISHED PER AIR TRAFFIC REQUEST.

OBSTACLE #6 (BLDG) IS 2006-ASW-4447-OE (1A AC) PER FPO.

OBSTACLE #8 - 4D ACCURACY CODE OBTAINED FROM PREVIOUS AMENDMENT (FLIGHT CHECK VERIFICATION).

LPV SLOPE: 34:1
LNAV/VNAV SLOPE: 24.08:1
ACT: -22C

AVERAGE COLD TEMPERATURE BASED ON 5 YEAR HISTORY::
DEC 2010: 2F
JAN 2009: -18F
DEC 2008: -6F
FEB 2007: -10
FEB 2006: -7F
AVG -39F/5=-7.8F=-22.11C (-22C)

2. KORD ASOS ON SERVICE-A; HRS OPTN: 24; LOCATION: ON AIRPORT.

VGSI DATA: 3.00/70.6

BACKUP ALTIMETER SETTING NOT ESTABLISHED DUE TO REDUNDANT WEATHER SOURCES AT AIRPORT.

NO ADDITIONAL AIRSPACE REQUIRED.

XP LNAV/VNAV FINAL: RAISE TO PREVIOUS MINS.

XP LPV FINAL: RAISE TO PREVIOUS MINS

QUALITY CONTROL 5

STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

PART - A OBSTRUCTION DATA

1. APP SEGMENT	FROM	TO	OBSTRUCTION	COORDINATES	ELEV. MSL	ROC	ALT. ADJUSTMENTS	MIN. ALT.
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

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
CHICAGO, IL	**ELEVATION: 672** AIRPORT NAME: **CHICAGO O'HARE INTL**	**RNAV**	**RNAV (GPS) RWY 28, AMDT 2D**	**AGL**

PART B - SUPPLEMENTAL DATA

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

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

5. APPROACH & RUNWAY LIGHTING		**ALS**
		(S) SALS
		MALS
	X	**HIRL 28L, 27R**
		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 CHECKED 5

RADIO FIX AND HOLDING DATA RECORD

NAME: FIDAK **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 415808.82N/0875028.60W **TYPE:** WP

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

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

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	RNAV (GPS) RWY 28			KORD	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 2 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETE WP FAC 1.
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 01/12/2012 **OFFICE:** AJV-353 **NAME:** HERMAN ROGERS

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

SIGNATURE:

DISTRIBUTION:
NFDC
FPO: FTW
ARTCC: ZAU
ATC FACILITY: CHICAGO APP CON
OTHER: ORD ATCT

QUALITY 5 CHECKED

RADIO FIX AND HOLDING DATA RECORD

NAME: LISKE **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 414505.44N/0875745.54W **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	NORTHBROOK	OBK	VOR/DME	H	183.00	181.00	28.18	28.18		2500	17500
2	CHICAGO HEIGHTS	CGT	VORTAC	L	307.59	309.59	22.79	22.79		2500	17500
3	CHICAGO O'HARE	ORD	VOR/DME	L	188.38	190.38	14.40	14.40		2500	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	S	ORD	VOR/DME	188.38	008.38	R	1		4000	14000	5	11
2	S	OBK	VOR/DME	182.99	002.99	R	1		4000	14000	5	11
3	S		WP	188.38	008.38	R		4	4000	14000	5	11
4	S		WP	181.99	001.99	R		4	2500	14000	5	11

CONTROLLING OBSTRUCTIONS:

PAT	AIRSPEED	OBSTRUCTION	COORDINATES	ELEVATION	ACCURACY CODE
1	200	TOWER (17-001393)	413602.52N/0875843.95W	1160	2C
2	200	TOWER (17-003567)	414904.71N/0875919.53W	1249	5D
3	200	TOWER (17-003567)	414904.71N/0875919.53W	1249	5D
4	200	TOWER (17-003567)	414904.71N/0875919.53W	1249	5D

HOLDING RESTRICTIONS:
HOLDING LIMITED TO ESTABLISHED PATTERNS.

REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE (US)
EN ROUTE	V191	1, 2, 3				
IAP	RNAV (GPS) 31C		4	KMDW	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 14R	1, 2, 3	1	KORD	CHICAGO	IL (US)
IAP	ILS OR LOC RWY 14R (ALT MISSED)	1, 2, 3	2	KORD	CHICAGO	IL (US)
IAP	ILS RWY 14R (CAT II)	1, 2, 3	1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 14R (CAT II) (ALT MISSED)	1, 2, 3	2	KORD	CHICAGO	IL (US)
IAP	ILS RWY 14R (CAT III)	1, 2, 3	1	KORD	CHICAGO	IL (US)
IAP	ILS RWY 14R (CAT III) (ALT MISSED)	1, 2, 3	2	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 14R		3	KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 28		3	KORD	CHICAGO	IL (US)

REQUIRED CHARTING: IAP, CONTROLLER, EN ROUTE LOW

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
UPDATE FIX USE.
UPDATE FAC1, CHANGED MAG/TRUE BRG FROM 182.99/180.99 TO 183.00/181.00 AND DME AND DIST FROM FAC FROM 28.19 TO 28.18.

DEVELOPED BY: **DATE:** 02/24/2012 **OFFICE:** AJV-353 **NAME:** HERMAN ROGERS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY: CHICAGO APP CON
OTHER: ORD ATCT

RADIO FIX AND HOLDING DATA RECORD

NAME: WILLT **STATE:** IL **COUNTRY:** US

LATITUDE/LONGITUDE: 415808.97N/0874647.91W **TYPE:** WP, RADAR, 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	I-TSL	LOC		092.90	089.90	4.40	4.40	26728	2200	5100
2	NORTHBROOK	OBK	VOR/DME	H	155.06	153.06		16.96		2200	5100

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

REMARKS:
I-TSL DME LOCATED AT 415805.69N-0875241.64W.

FIX USE:

USE TYPE	USE TITLE	FAC	PAT	AIRPORT IDENT	CITY	STATE
IAP	ILS OR LOC RWY 28	1, 2		KORD	CHICAGO	IL (US)
IAP	ILS RWY 28 (CAT II)	1, 2		KORD	CHICAGO	IL (US)
IAP	ILS RWY 28 (CAT III)	1, 2		KORD	CHICAGO	IL (US)
IAP	RNAV (GPS) RWY 28			KORD	CHICAGO	IL (US)

REQUIRED CHARTING: IAP

COMPULSORY REPORTING POINT: NO

RECORD REVISION NUMBER: 3 **DATE OF REVISION:** 05/31/2012

REASON FOR REVISION:
DELETE WP FAC 3.
UPDATE FAC 1 AND 2, CHANGED MAG BRG FROM 089.90 TO 092.90 AND ADDED DIST FROM FAC IN NM, AND FEET IN FAC 1.
UPDATE FAC 2, CHANGED MAG/TRUE BRG FROM 155.05/153.05 TO 155.06/153.06 AND DIST FROM FAC FROM 16.97 TO 16.96.
DELETED NOTE IN REMARKS, RNP CRITERIA APPLIED. (OLD RNP FORMULA)
UPDATE FIX USE.

DEVELOPED BY: **DATE:** 01/12/2012 **OFFICE:** AJV-353 **NAME:** HERMAN ROGERS

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

SIGNATURE:

DISTRIBUTION: **NFDC**
FPO: CEN
ARTCC: ZAU
ATC FACILITY: CHICAGO APP CON
OTHER: ORD ATCT

QUALITY 5 CHECKED