US DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

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
WILOO/18.67 DME/RADAR (IAF)	LEWUK/15.81 DME/RADAR	034.71 / 2.86 (I-HUU)	6000
LEWUK/15.81 DME/RADAR	LIONZ/12.90 DME/RADAR	034.71 / 2.90 (I-HUU)	5000
LIONZ/12.90 DME/RADAR	WATCH/9.95 DME/RADAR	034.71 / 2.95 (I-HUU)	4000
WATCH/9.95 DME/RADAR (IF)	RIBME/6.96 DME/RADAR	034.71 / 3.00 (I-HUU)	3000
RIBME/6.96 DME/RADAR	NUVUE/5.74 DME/RADAR	034.71 / 1.21 (I-HUU)	2600

MISSED APPROACH

ILS: DA
LOC: 5.91 MILES AFTER NUVUE/I-HUU 5.74 DME/RADAR OR AT I-HUU 0.17 DME FIX

CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 090 AND BRG-106 TO SPENC LOM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000, OR AS DIRECTED BY ATC.

ALTERNATE MA: CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 DIRECT YQG VOR/DME AND HOLD.

1. PT ____ SIDE OF COURSE ____ OUTBOUND ____ FT WITHIN ____ MILES OF ____ (IAF)
2. PROFILE STARTS AT WILOO/18.67 DME/RADAR
3. FAC: 034.71 FAF: NUVUE/5.74 DME/RADAR DIST FAF TO MAP: 5.91 THLD: 5.91
4. MIN. ALT: WILOO 7000, LEWUK 6000, LIONZ 5000, WATCH 4000, RIBME 3000, NUVUE 2600, HOKKR/1.64 DME 1240*
5. DIST TO THLD FROM OM: 5.91 MM: 0.46 IM: 885 150 HAT: - 100 HAT: 864 GS ANT: 1030
6. MIN GS INCPT: 2600 GS ALT AT: NUVUE/5.74 DME/RADAR 2600 OM: - MM: 833 IM: 733
7. GS ANGLE: 3.00 TCH: 54.7
8. MSA FROM: DXO VOR/DME 2800

ADDITIONAL FLIGHT DATA:
HOLD E, RT, 275.00 INBOUND.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE YQG VOR/DME, RT, 326.00 INBOUND.
CHART FAS OBST: 727 TREE 421112N/0832143W
CHART VDP AT 0.89 DME*;
DISTANCE VDP TO THLD 1.06 MILES.
*LOC ONLY.
CHART IN PLANVIEW: YQG VOR/DME.
CHART LOC RWY 4R.
CHART LOC RWY 4L.

MAG VAR: 6W EPOCH YEAR: 1990

MINIMUMS

TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT | ALTERNATE: N A | ILS: STANDARD | LOC: 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
S-ILS 3R	833	1800	200	833	1800	200	833	1800	200	833	1800	200			
S-LOC 3R	1240	2400	607	1240	2400	607	1240	6000	607	1240	1 1/2	607			
CIRCLING	1240	1	595	1240	1	595	1240	1 3/4	595	1240	2	595			
HOKKR FIX MINIMUMS															
S-LOC 3R	1040	2400	407	1040	2400	407	1040	4000	407	1040	4000	407			
CIRCLING	1200	1	555	1200	1	555	1200	1 1/2	555	1200	2	555			

NOTES:
CATEGORY II ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED S-ILS 3R: CAT A, B, C, D, RA 101, RVR 1200, HATh 100, DA 733 MSL.
CATEGORY III ILS SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED. S-ILS-3R: CAT IIIa CAT A,B,C,D, RVR 700. CAT IIIb CAT A,B,C,D, RVR 600. CAT IIIc NA.
(SEE FORM 8260-10)

QUALITY 4 CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 633 AIRPORT NAME:	FACILITY IDENTIFIER:	PROCEDURE NO./AMDT NO./EFFECTIVE DATE:	SUP:
DETROIT, MI	DETROIT METROPOLITAN WAYNE COUNTY	I-HUU	ILS OR LOC RWY 3R, AMDT 15C ILS RWY 3R (CAT II) , ILS RWY 3R (CAT III)	AMDT: 15B DATED 04/05/2012

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] DTW ATCT, ZOB, AMGR, ST AERO

FLIGHT CHECKED BY		
NAME: PAUL ROBERT ARMSTRONG	FIFO: FIOG	DATE: 07/29/2008

DEVELOPED BY		
NAME: ROY L. BARNETT	FIFO: AJV-353	DATE: 04/20/2012

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

CHANGES:

1. CHANGED PRIMARY MA FROM: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT SPENC LOM AND HOLD. TO :CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 090 AND BRG-106 TO SPENC LOM AND HOLD, CONTINUE CLIMB-IN-HOLD TO 3000.
2. CHANGED ALTERNATE MA FROM: CLIMB TO 1300 THEN CLIMBING RIGHT TURN TO 3000 DIRECT YGQ VOR/DME AND HOLD SE, RT, 326.00 INBOUND. TO: CLIMB TO 1100 THEN CLIMBING RIGHT TURN TO 3000 DIRECT YQG VOR/DME AND HOLD.
3. VGSI TCH CHANGED FROM 54.0 FT TO 70.4 FT.
4. VDP CHANGED FROM 0.71 DME TO 0.89 DME.
5. DISTANCE VDP TO THLD CHANGED FROM 0.87 MILES TO 1.06 MILES.
6. REMOVED CHART AIRPORT ELEVATION NOTE.
7. PRIMARY MA LVL SURFACE OBSTACLE CHANGED FROM 906 AAO TO 1305 TOWER (26-000095).
8. CHANGED TDZE TO THLD.

REASONS:

1, 2. AIRPORT/FPT REQUESTED.
3, 6, 8. DATA CHANGE.
4, 5. VGSI TCH DATA CHANGE.
7. NEW CONTROLLING OBSTACLE.

QUALITY 4 CHECKED

US DEPARTMENT OF TRANSPORTATION - FEDERAL AVIATION ADMINISTRATION

ILS - STANDARD
INSTRUMENT APPROACH PROCEDURE - TITLE 14 CFR PART 97.29

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NOTES, (CONT.):
CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 4R OR RWY 4L.
CHART PLANVIEW NOTE: RADAR REQUIRED.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.
CHART NOTE: ADF AND DME OR RADAR REQUIRED.

QUALITY 4 CHECKED

CITY AND STATE		FACILITY IDENTIFIER:	PROCEDURE NO./ AMDT NO./EFFECTIVE DATE:	SUP:
DETROIT, MI	**ELEVATION: 645 THRE: 633** AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II) , ILS RWY 3R (CAT III)**	AMDT: **15B** DATED: **04/05/2012**

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

ARINC PACKET - 424-18 - ILS

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                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        SUSAD        DXO   K5011340VDHW N42124729W083215998    N42124729W083215998W0060006372     NARDETROIT
        SUSAD KDTWK5 IHUU  K5011150 IT                    IHUUN42113431W083210969     006300     NARDETROIT METROPOLITAN WAYNE COU

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   LEWUK K50    R     N41574298W083312349                        W0070     NAR          LEWUK
        SUSAEAENRT   LIONZ K50    C     N42001606W083293160                        W0070     NAR          LIONZ
        SUSAEAENRT   NUVUE K50    C     N42063313W083245526                        W0071     NAR          NUVUE
        SUSAEAENRT   RIBME K50    R     N42052929W083254212                        W0071     NAR          RIBME
        SUSAEAENRT   WATCH K50    R     N42025146W083273784                        W0070     NAR          WATCH
        SUSAEAENRT   WILOO K50    R     N41551211W083331360                        W0069     NAR          WILOO

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5ADTW     0     120YHN42124480W083211220W006000645         1800018000C    MNAR    DETROIT METROPOLITAN WAYNE COU

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5FI03R  AWILOO 010WILOOK5EA0E  A    IF                                  + 07000     18000                0 NS
        SUSAP KDTWK5FI03R  AWILOO 020LEWUKK5EA0E       TF                                  + 06000                          0 NS
        SUSAP KDTWK5FI03R  AWILOO 030LIONZK5EA0E       TF                                  + 05000                          0 NS
        SUSAP KDTWK5FI03R  AWILOO 040WATCHK5EA0EE B    CF IHUUK5      2147011903470030PI   + 04000                          0 NS
        SUSAP KDTWK5FI03R  I      010WATCHK5EA0E  I    IF IHUUK5      21470119         PI  J 040000260018000                0 NS
        SUSAP KDTWK5FI03R  I      011RIBMEK5EA0E S     CF IHUUK5      2147008903500030PI   + 03000                          0 NS
        SUSAP KDTWK5FI03R  I      020NUVUEK5EA0E  F    CF IHUUK5      2147007703500012PI   H 0260002600         -300DXO   K5D 0 NS
        SUSAP KDTWK5FI03R  I      030RW03RK5PG0GY M    CF IHUUK5      2147001803500059PI     00688              -300           0 NS
        SUSAP KDTWK5FI03R  I      040          0  M    CA                   0347          + 01100                          0 NS
        SUSAP KDTWK5FI03R  I      050          0       VI                   0900                                           0 NS
        SUSAP KDTWK5FI03R  I      060DM    K5PN0NY      CF DXO K5      092700731060060D     + 03000                          0 NS
        SUSAP KDTWK5FI03R  I      070DM    K5PN0NE  R   HM                   2750T010      + 03000                          0 NS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ----------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5GRW03R   0100010347 N42114421WC83210649+0000     +0158400633000055150IIHUU3

                1         2         3         4         5         6         7         8         9         0         1         2         3
ILS     123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
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QUALITY CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 633	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)**	AMDT: **15B** DATED: **04/05/2012**

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 KDTWK5IIHUU3   011150RW03RN42132038W0831955630347N42115113W0832054981100 10300364300W00605500630

            1         2         3         4         5         6         7         8         9         0         1         2         3
MSA         123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAP KDTWK5SDXO  K5D               0   18018002825                                                                          M

            1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID      123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
SUSAPNKDTWK5 DM    K5002230HOLW N42131202W083121192                          W0060          NARSPENC
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 633	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	I-HUU	ILS OR LOC RWY 3R, AMDT 15C ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)	AMDT: 15B DATED: 04/05/2012

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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ARINC SUMMARY - 424-18 - ILS

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	WILOO	WILOO	010	IAF	IF		FB				AA 07000	
	WILOO	LEWUK	020		TF		FB				AA 06000	
	WILOO	LIONZ	030		TF		FB				AA 05000	
	WILOO	WATCH	040		CF		FB		034.7()	003.0	AA 04000	
		WATCH	010	FACF	IF		FB				AA 04000 GI 02600	
		RIBME	011	SDF	CF		FB		035.0()	003.0	AA 03000	
		NUVUE	020	FAF	CF		FB		035.0()	001.2	GI 02600 GS 02600	
		RW03R	030	MAP	CF		FO		035.0()	005.9	AT 00688	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		034.7()		AA 01100	
		050		VI		FB		090.0()			
	DM	060		CF		FO		106.0()	006.0	AA 03000	
	DM	070		HM	R	FO		275.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DXO	N421247.29	W0832159.98	N4212.788	W08322.000
	IHUU (DME)	N421134.31	W0832109.69	N4211.572	W08321.162
	LEWUK	N415742.98	W0833123.49	N4157.716	W08331.392
	LIONZ	N420016.06	W0832931.60	N4200.268	W08329.527
	NUVUE	N420633.13	W0832455.26	N4206.552	W08324.921
	RIBME	N420529.29	W0832542.12	N4205.488	W08325.702
	WATCH	N420251.46	W0832737.84	N4202.858	W08327.631
	WILOO	N415512.11	W0833313.60	N4155.202	W08333.227
	RW03R	N421144.21	W0832106.49	N4211.737	W08321.108
	IHUU (LOC)	N421320.38	W0831955.63	N4213.340	W08319.927
	DM	N421312.02	W0831211.92	N4213.200	W08312.199

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03R	00633	55

CITY AND STATE	ELEVATION: 645 THRE: 633	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)**	AMDT: **15B** DATED: **04/05/2012**

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 PACKET - 424-18 - LOC

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                1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAD        DXO   K5011340VDHW N42124729W083215998    N42124729W083215998W0060006372     NARDETROIT
        SUSAD KDTWK5 IHUU  K5011150 IT                     IHUUN42113431W083210969     006300     NARDETROIT METROPOLITAN WAYNE COU

                1         2         3         4         5         6         7         8         9         0         1         2         3
WP      12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAEAENRT   HOKKR K50    C     N42100944W083221626                      W0071     NAR           HOKKR
        SUSAEAENRT   LEWUK K50    R     N41574298W083312349                      W0070     NAR           LEWUK
        SUSAEAENRT   LIONZ K50    C     N42001606W083293160                      W0070     NAR           LIONZ
        SUSAEAENRT   NUVUE K50    C     N42063313W083245526                      W0071     NAR           NUVUE
        SUSAEAENRT   RIBME K50    R     N42052929W083254212                      W0071     NAR           RIBME
        SUSAEAENRT   WATCH K50    R     N42025146W083273784                      W0070     NAR           WATCH
        SUSAEAENRT   WILOO K50    R     N41551211W083331360                      W0069     NAR           WILOO

                1         2         3         4         5         6         7         8         9         0         1         2         3
AIRPORT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5ADTW     0     120YHN42124480W083211220W006000645         1800018000C    MNAR    DETROIT METROPOLITAN WAYNE COU

                1         2         3         4         5         6         7         8         9         0         1         2         3
SEGMENT 12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5FL03R  AWILOO 010WILOOK5EA0E  A    IF                                  + 07000     18000                0 NS
        SUSAP KDTWK5FL03R  AWILOO 020LEWUKK5EA0E       TF                                  + 06000                          0 NS
        SUSAP KDTWK5FL03R  AWILOO 030LIONZK5EA0E       TF                                  + 05000                          0 NS
        SUSAP KDTWK5FL03R  AWILOO 040WATCHK5EA0EE B    CF IHUUK5      2147011903470030PI   + 04000                          0 NS
        SUSAP KDTWK5FL03R  L      010WATCHK5EA0E  I    IF IHUUK5      21470119         PI  + 04000     18000                0 NS
        SUSAP KDTWK5FL03R  L      011RIBMEK5EA0E S     CF IHUUK5      2147008903500030PI   + 03000                          0 NS
        SUSAP KDTWK5FL03R  L      020NUVUEK5EA0E  F    CF IHUUK5      2147007703500012PI   + 02600                DXO   K5D 0 NS
        SUSAP KDTWK5FL03R  L      021HOKKRK5EA0E S     CF IHUUK5      2147003603500041PI   + 01240          -305          0 NS
        SUSAP KDTWK5FL03R  L      030RW03RK5PG0GY M    CF IHUUK5      2147001803500018PI     00688          -305          0 NS
        SUSAP KDTWK5FL03R  L      040          0  M     CA                      0347        + 01100                          0 NS
        SUSAP KDTWK5FL03R  L      050          0        VI                      0900                                         0 NS
        SUSAP KDTWK5FL03R  L      060DM    K5PN0NY      CF DXO K5      09270073106000 60D   + 03000                          0 NS
        SUSAP KDTWK5FL03R  L      070DM    K5PN0NE  R   HM                      2750T010    + 03000                          0 NS

                1         2         3         4         5         6         7         8         9         0         1         2         3
RUNWAY  12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
        ------------------------------------------------------------------------------------------------------------------------------
        SUSAP KDTWK5GRW03R   0100010347 N42114421W083210649+0000     +01584006330000551 50IIHUU3
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: **645** **THRE: 633**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)**	AMDT: **15B** DATED: **04/05/2012**

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.

```
          1         2         3         4         5         6         7         8         9         0         1         2         3
ILS       12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KDTWK5IIHUU3   011150RW03RN42132038W0831955630347N42115113W0832054981100 10300364300W00605500630

          1         2         3         4         5         6         7         8         9         0         1         2         3
MSA       12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAP KDTWK5SDXO  K5D              0   18018002825                                                              M

          1         2         3         4         5         6         7         8         9         0         1         2         3
NAVAID    12345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012345678901234567890123456789012
          ------------------------------------------------------------------------------------------------------------------------
          SUSAPNKDTWK5 DM    K5002230HOLW N42131202W083121192                    W0060          NARSPENC
```

QUALITY CHECKED

CITY AND STATE	ELEVATION: 645 THRE: 633	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)**	AMDT: **15B** DATED: **04/05/2012**

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 - LOC

ROUTES	TRANSITION	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
	WILOO	WILOO	010	IAF	IF		FB				AA 07000	
	WILOO	LEWUK	020		TF		FB				AA 06000	
	WILOO	LIONZ	030		TF		FB				AA 05000	
	WILOO	WATCH	040		CF		FB		034.7()	003.0	AA 04000	
		WATCH	010	FACF	IF		FB				AA 04000	
		RIBME	011	SDF	CF		FB		035.0()	003.0	AA 03000	
		NUVUE	020	FAF	CF		FB		035.0()	001.2	AA 02600	
		HOKKR	021	SDF	CF		FB		035.0()	004.1	AA 01240	
		RW03R	030	MAP	CF		FO		035.0()	001.8	AT 00688	

MISSED APPROACH	FIX	SEQ	USE	PATH	TURN	FO/FB	RNP	MAG(TRUE)	DISTANCE	ALTITUDE	SPEED
		040		CA		FB		034.7()		AA 01100	
		050		VI		FB		090.0()			
	DM	060		CF		FO		106.0()	006.0	AA 03000	
	DM	070		HM	R	FO		275.0()	T01.0	AA 03000	

POINT DATA	WAYPOINT	LAT IN SECS	LONG IN SECS	LAT IN MINS	LONG IN MINS
	DXO	N421247.29	W0832159.98	N4212.788	W08322.000
	IHUU (DME)	N421134.31	W0832109.69	N4211.572	W08321.162
	HOKKR	N421009.44	W0832216.26	N4210.157	W08322.271
	LEWUK	N415742.98	W0833123.49	N4157.716	W08331.392
	LIONZ	N420016.06	W0832931.60	N4200.268	W08329.527
	NUVUE	N420633.13	W0832455.26	N4206.552	W08324.921
	RIBME	N420529.29	W0832542.12	N4205.488	W08325.702
	WATCH	N420251.46	W0832737.84	N4202.858	W08327.631
	WILOO	N415512.11	W0833313.60	N4155.202	W08333.227
	RW03R	N421144.21	W0832106.49	N4211.737	W08321.108
	IHUU (LOC)	N42132C.38	W0831955.63	N4213.340	W08319.927
	DM	N421312.02	W0831211.92	N4213.200	W08312.199

RUNWAY DATA	RWY	THRESHOLD ELEVATION	TCH
	RW03R	00633	55

QUALITY 9 CHECKED

CITY AND STATE	ELEVATION: **645** **THRE: 633**	FACILITY IDENTIFIER:	PROCEDURE NO. / AMDT NO. / EFFECTIVE DATE:	SUP:
DETROIT, MI	AIRPORT NAME: **DETROIT METROPOLITAN WAYNE COUNTY**	**I-HUU**	**ILS OR LOC RWY 3R, AMDT 15C** **ILS RWY 3R (CAT II), ILS RWY 3R (CAT III)**	AMDT: **15B**
				DATED: **04/05/2012**

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	WILOO/18.67	LEWUK/15.81	1. TOWER (26-001473)	415713.00N/0833611.00W	920 (5D)	1000	AT4080	6000
	DME/RADAR	DME/RADAR	2. TERRAIN	415845.00N/0833542.00W	670 (700)		AS1500	2200
INITIAL	LEWUK/15.81	LIONZ/12.90	3. AAO	420000.00N/0833548.00W	867 (4E)	1000	AT3133	5000
	DME/RADAR	DME/RADAR	4. TERRAIN	420000.00N/0833548.00W	667 (700)		AS1500	2200
INITIAL	LIONZ/12.90	WATCH/9.95	5. TOWER (26-001086)	420008.00N/0832410.00W	871 (5D)	1000	AT2129	4000
	DME/RADAR	DME/RADAR	6. TERRAIN	420115.00N/0832857.00W	670 (700)		AS1500	2200
INTERMEDIATE	WATCH/9.95	RIBME/6.96	7. TOWER (26-003173)	420358.30N/0832340.10W	1009 (4D)	500	AT1491	3000
	DME/RADAR	DME/RADAR	8. TERRAIN	420548.00N/0832818.00W	680 (700)		AS1500	2200
INTERMEDIATE:	RIBME/6.96	NUVUE/5.74	9. AAO	420633.00N/0832654.00W	880 (4E)	500	AC98 AT1122	2600
STEPDOWN	DME/RADAR	DME/RADAR	10. TERRAIN	420633.00N/0832654.00W	680 (700)		AS1500	2200
FINAL: ILS	NUVUE/5.74	DA				ASC		833/200
	DME/RADAR							
FINAL: ILS CAT II	NUVUE/5.74	DA				ASC		733/100
	DME/RADAR							
2. PROCEDURE TURN	NA							
3. MISSED APPROACH MAP:	DA / DA / 5.91	SPENC LOM				ASC		3000
	MILES AFTER		13. TOWER (26-000095)	421005.00N/0831254.00W	1305 (2D)	1000		2400
ELEV:	665/730		14. TERRAIN	421306.00N/0831506.00W	706 (700)		AS1500	2200

4. CIRCLING AREA	DISTANCE		REQUIRED		ACTUAL							
CATEGORY A	1.3 NM	HT. ABV. ARPT.	350		595 / 555	15. ROD ATCT	421245.82N/0832115.69W	881 (1A)	300	SI	1240 / 1200
CATEGORY B	1.5 NM		450		595 / 555	15. ROD ATCT	421245.82N/0832115.69W	881 (1A)	300	SI	1240 / 1200
CATEGORY C	1.7 NM		450		595 / 555	15. ROD ATCT	421245.82N/0832115.69W	881 (1A)	300	SI	1240 / 1200
CATEGORY D	2.3 NM		550		595 / 555	15. ROD ATCT	421245.82N/0832115.69W	881 (1A)	300	SI	1240 / 1200
CATEGORY E	4.5 NM		550								

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID: DXO VOR/DME

SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A	SECTOR	OBSTRUCTION	BRG/DIST	ELEVATION (MSL)	M S A
360-360	TWR (26-000093)	030/ 17.7	1749 (1D)	2800					4

CHECKED

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DETROIT, MI	ELEVATION: 645 AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	I-HUU	ILS OR LOC RWY 3R, AMDT 15C ILS RWY 3R (CAT II) , ILS RWY 3R (CAT III)	AGL

PART B - SUPPLEMENTAL DATA

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

4. MONITOR STATUS	PRIMARY NAVAID: I-HUU	
	MONITOR POINT: DTW ATCT	
	HRS OPTN: CAT 1	24
	CAT 3	

5. APPROACH & RUNWAY LIGHTING	X	ALSF-2 04R, 03R, 04L
		(S) SALS
	X	MALSR 21L, 27L, 22R, 22L, 27R
	X	HIRL 09L, 21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 09R, 22L, 27R
		MIRL
	X	REIL 09L, 03L, 21R, 09R
	X	TDZ 04R, 03R, 04L
	X	C/L 21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 09R, 22L
	X	OTHER (SPECIFY) PAPI-4R 03L, 03R, 22R PAPI-4L 21L, 21R, 27L, 04L, 27R

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	PIR-G 09L, 21L, 04R, 03R, 27L, 22R, 04L, 09R, 22L, 27R
	INSTRUMENT	NPI-G 03L, 21R
7. RUNWAY VISUAL RANGE	APPROACH	21L, 03L, 04R, 21R, 03R, 27L, 22R, 04L, 22L, 27R
	MIDFIELD	09L, 21L, 04R, 03R, 22R, 04L, 22L
	ROLL OUT	21L, 03L, 04R, 21R, 03R, 22R, 04L, 22L

8. GLIDE PATH	GP ANGLE: 3.00	ELEV RWY THRESHOLD: 633.0
	DISTANCE FROM RWY: 1030	ELEV GP ANTENNA: 633
		THRESHOLD CROSSING HEIGHT: 54.7

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

10. WAIVERS: 1

ORDER 8260.3B, VOLUME 3, PARAGRAPH 3.1; SIMULTANEOUS ILS APPROACH PROCEDURES REQUIRE 1000 FT VERTICAL SEPARATION BE MAINTAINED UNTIL AIRCRAFT BEGIN DESCENT ON THE GLIDEPATH. CALCULATED FIX PLACEMENT EXCEEDS 318 FT PER NM DESCENT GRADIENT IN THE INTERMEDIATE SEGMENT.

PART D - PREPARED BY: ROY L. BARNETT	DATE: 04/20/2012
TITLE: AERONAUTICAL INFORMATION SPECIALIST	OFFICE: AJV-353

PART C - REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

FLIGHT CHECK RDH 54.68 FT, (ORDER 8260.3B CHG 19)

VGSI DATA: 3.00/70.4

WAIVER: FAAO 8260.3B VOL 3 PARA 3.1 APP 4 SIMULTANEOUS ILS APPROACH PROCEDURES REQUIRE 1000 FT VERTICAL SEPARATION BE MAINTAINED UNTIL AIRCRAFT BEGIN DESCENT ON THE GLIDEPATH. CALCULATED FIX PLACEMENT EXCEEDS 318 FT PER NM DESCENT GRADIENT IN THE INTERMEDIATE SEGMENT.

NO ADDITIONAL AIRSPACE REQUIRED.

ALTERNATE ALTIMETER SOURCE NOT PROVIDED DUE TO MULTIPLE REDUNDANT ALTIMETER SOURCES AT THE AIRPORT.

FIX PLACEMENT FOR WILOO, LEWUK, LIONZ, WATCH AND RIBME BASED ON CALCULATIONS FROM 8260.54A, PARA 2-16A AS APPROVED BY AVN-101.

DESCENT GRADIENT EXCEEDS 318 FT. PER NM APPROVED BY AFS-420.

100 FT. VEGETATION USED PER FPO.

FDC 1/6903 DTW FI/P

XP-20 FT ADJUSTMENT MAINTAINS LOC STEPDOWN ALTITUDE AS PUBLISHED.

MISSED APPROACH OBSTACLES CONT.
ALTERNATE:
ASC 3000
16. TOWER (CA-000379) 420909.00N/0825705.00W 1340 (4D)
1000 2400
14. TERRAIN 421306.00N/0831506.00W 706 (700) AS1500
2200

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.
FINAL: LOC	NUVUE/5.74	HOKKR/1.64 DME	11. TOWER (26-000181)	420719.40N/0832403.40W	905 (4D)	250	AC50 XP20	1240
	DME/RADAR							
FINAL: LOC STEPDOWN	HOKKR/1.64 DME	5.91 MILES AFTER	12. TREE (KDTW0015)	421111.94N/0832142.51W	727 (1A)	250	XP60	1040
		NUVUE/I-HUU						
		5.74 DME/RADAR						
		OR AT I-HUU						
		0.17 DME FIX						
3. MISSED APPROACH MAP:								
ELEV:								

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

5. MINIMUM SAFE ALTITUDES — PRIMARY NAVAID:

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

CITY AND STATE		FACILITY	PROCEDURE AND AMENDMENT NO:	REGION
DETROIT, MI	ELEVATION: 645 AIRPORT NAME: DETROIT METROPOLITAN WAYNE COUNTY	I-HUU	ILS OR LOC RWY 3R, AMDT 15C ILS RWY 3R (CAT II) , ILS RWY 3R (CAT III)	AGL

PART B - SUPPLEMENTAL DATA

1. COMMUNICATIONS WITH:	2. WEATHER SERVICE	3. ALTIMETER SETTING
SATISFACTORY ON:	☐ NWS ☐ FAA ☐ A/C OTHER:	SOURCE: DISTANCE: HOURS REMOTE OPERATION:
☐ VHF ☐ UHF ☐ HF	LOCATION:	ADJUSTMENT:

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

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

6. RUNWAY MARKINGS	BASIC	
	ALL WEATHER	
	INSTRUMENT	
7. RUNWAY VISUAL RANGE	APPROACH	
	MIDFIELD	
	ROLL OUT	
8. GLIDE PATH	GP ANGLE:	ELEV RWY THRESHOLD:
	DISTANCE FROM RWY:	ELEV GP ANTENNA:
		THRESHOLD CROSSING HEIGHT:
9. FINAL APPROACH COURSE AIMING	☐ RUNWAY THRESHOLD	FT. FROM THRESHOLD
	☐ ON CENTERLINE	FT. FROM CENTERLINE

10. WAIVERS:

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

PART C - REMARKS: