

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
ILS STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.29

Bearings, headings, courses, tracks 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 feet RVR.

<u>AIRPORT</u> CUYAHOGA COUNTY	<u>AIRPORT ID</u> KCGF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 24	<u>ORIGINAL/AMENDMENT</u> 16A	<u>CITY</u> CLEVELAND	<u>STATE</u> OH
<u>AIRPORT ELEVATION</u> 876	<u>TDZE</u> 873	<u>SUPERSEDED</u> ILS OR LOC RWY 24	<u>ORIGINAL/AMENDMENT</u> 16	<u>DATED</u> 11/08/2018	<u>MAG VAR</u> 8W <u>EPOCH YEAR</u> 1995
<u>FACILITY</u> I-CGF	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>	

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
WEIDS	IAF	EBLIS		TF	FB	1.00	269.73	7.11	3000
EBLIS INT/I-CGF 13.43 DME	IF	IMUSY INT/I-CGF 9.00 DME					237.48	4.43 (I-CGF)	3000
IMUSY INT/I-CGF 9.00 DME		KROOK INT/I-CGF 5.25 DME					237.48	3.75 (I-CGF)	2300

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.34 NM AFTER KROOK INT/I-CGF 5.25 DME OR AT I-CGF 0.91 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3100 ON CXR VOR/DME R-286 TO CXR VOR/DME AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 1600 THEN CLIMBING LEFT TURN TO 3000 ON HEADING 180 AND ON DJB VOR/DME R-096 TO WEXER INT/DJB 35.52 DME AND HOLD.

PROFILE:

- PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- PROFILE STARTS AT EBLIS
- FAC:** 237.48 **FAF:** KROOK INT/I-CGF 5.25 DME **DIST FAF TO MAP:** 4.34 **DIST FAF TO THLD:** 4.34
- MIN ALT:** EBLIS INT/I-CGF 13.43 DME 3000, IMUSY INT/I-CGF 9.00 DME 3000, KROOK INT/I-CGF 5.25 DME 2300
- DIST TO THLD FROM OM:** **MM:** **IM:** **150 HAT:** **GS ANT:** 925
- MIN GS INCPT:** 2300 **GS ALT AT FAF :** KROOK INT/I-CGF 5.25 DME 2300 **OM:** **MM:** **IM:**
- GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 44.0
- MSA FROM:** CXR VOR/DME 3100



EQUIPMENT REQUIREMENTS NOTES:

RNAV 1-GPS OR RADAR REQUIRED FOR PROCEDURE ENTRY.
AIRCRAFT NOT GPS EQUIPPED - RADAR REQUIRED FOR PROCEDURE ENTRY.

NOTES:

CHART NOTE: AUTOPILOT COUPLED APPROACH NA BELOW 2020.
CHART NOTE: RWY 24 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: FOR INOPERATIVE ALS INCREASE S-LOC CATS C/D VISIBILITY TO 1 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON.
CHART IN PLANVIEW: WEXER INT/DJB 35.52 DME
CHART VDP AT 1.92 DME*
DISTANCE VDP TO THLD 1.01 NM
* LOC ONLY
FAS OBST: 989 AAO 413602N/0812522W.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD E WEXER INT/DJB 35.52 DME, RT, 275.89 INBOUND.
HOLD W, RT, 106.00 INBOUND

MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 800-2 1/2

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
S-ILS 24	1073	1/2	200	1073	1/2	200	1073	1/2	200	1073	1/2	200			
S-LOC 24	1240	1/2	367	1240	1/2	367	1240	5/8	367	1240	5/8	367			
CIRCLING	1400	1	524	1500	1	624	1560	2	684	1620	2 1/2	744			

CHANGES - REASONS

1. CHANGED WEIDS TO EBLIS TRACK FROM 267.01 TO 269.73 - TO CORRECT A DOCUMENTATION ERROR.
2. REMOVED PBN REQUIREMENTS NOTE: RNAV 1 - REDUNDANT.

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZOB ARTCC, CLE ATCT, CGF ATCT, AMGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJW-33) MEMO, OCTOBER 3, 2018, SUBJECT:
FLIGHT INSPECTION REVIEW NOT REQUIRED

DEVELOPED BY

MIKE MELSEN
*Digitally signed by
MIKE MELSEN
Dec 20, 2018*

APPROVED BY

PATRICK MULQUEEN
*Digitally signed by
WARDELL HENNING
Jan 03, 2019*

OFFICE
*Digitally signed by
WARDELL HENNING*

Jan 03, 2019
OFFICE
AJV-A432

OFFICE
AJV-A43

DATE

DATE
12/10/2018

DATE

TITLE
MANAGER



FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
STANDARD INSTRUMENT APPROACH PROCEDURE DATA RECORD

<u>AIRPORT</u> CUYAHOGA COUNTY	<u>AIRPORT ID</u> KCGF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 24	<u>AMDT NO.</u> 16A	<u>CITY</u> CLEVELAND	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 876	<u>FACILITY</u> I-CGF
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

<u>FROM</u> WEIDS	<u>TO</u> EBLIS INT/I-CGF 13.43 DME
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<u>RNP</u>	<u>DISTANCE</u> 7.11	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
1.AAO	413924.00N/0810524.00W	1407	164	98	4E	1000				AT500	3000
2.TERRAIN	413918.00N/0810609.00W	1185 (1200)								AS1500	2700

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:

INTERMEDIATE

<u>FROM</u> EBLIS INT/I-CGF 13.43 DME	<u>TO</u> IMUSY INT/I-CGF 9.00 DME
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<u>RNP</u>	<u>DISTANCE</u> 4.43	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>	<u>HMAS</u>
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<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
3.AAO	413830.00N/0811624.00W	1487	164	98	4E	500				AT915 AC98	3000
4.TERRAIN	413830.00N/0811624.00W	1287 (1300)								AS1500	2800

COMPUTATIONS

<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>
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SEGMENT REMARKS:



INTERMEDIATE: STEPDOWN

FROM
IMUSY INT/I-CGF 9.00 DME

TO
KROOK INT/I-CGF 5.25 DME

<u>RNP</u>	<u>DISTANCE</u> 3.75	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
5.AAO	413745.00N/0811951.00W		1096	164	98	4E	500				AC98 AT606	2300
6.TERRAIN	413745.00N/0811951.00W		896 (900)								AS1000	1900

<u>COMPUTATIONS</u>												
	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>

SEGMENT REMARKS:

FINAL: ILS

FROM
KROOK INT/I-CGF 5.25 DME

TO
RW24

<u>RNP</u>	<u>DISTANCE</u> 4.25	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 200			<u>HMAS</u>					
<u>OBSTRUCTION</u>	<u>COORDINATES</u>		<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>CG</u>	<u>CGTA</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
								ASC				1073

<u>COMPUTATIONS</u>												
	<u>ALT</u>	<u>KIAS</u>	<u>KTAS</u>	<u>HAA</u>	<u>VKTW</u>	<u>TR</u>	<u>BA</u>	<u>DTA</u>	<u>COURSE CHANGE</u>	<u>DVEB</u>	<u>VEB OCS</u>	<u>RF CENTER FIX/DISTANCE</u>

SEGMENT REMARKS:



FINAL: LOC

FROM

KROOK INT/I-CGF 5.25 DME

TO

4.34 NM AFTER KROOK INT/I-CGF 5.25 DME OR AT I-CGF 0.91 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.25		4.34 NM AFTER KROOK INT/I-CGF 5.25 DME OR AT I-CGF 0.91 DME	367								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.AAO	413602.24N/0812522.43W		989	50	20	2C	250					1240

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH : ILS

FROM

DA

TO

CXR VOR/DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					908							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3100
8.TOWER (39-000197)	412752.36N/0811712.49W		2016	100	20	3C	1000					3100
9.TERRAIN	412906.00N/0811221.00W		1375 (1400)								AS1500	2900

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH : LOC

FROM

4.34 NM AFTER KROOK INT/I-CGF 5.25 DME OR AT I-CGF 0.91 DME

TO

CXR VOR/DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							990				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3100
8.TOWER (39-000197)	412752.36N/0811712.49W	2016	100	20	3C	1000					3100
9.TERRAIN	412906.00N/0811221.00W	1375 (1400)								AS1500	2900

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS

FROM

DA

TO

WEXER INT/DJB 35.52 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							908				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
10.TOWER (39-001493)	412632.39N/0812928.12W	1640	500	50	5D	1000					2700
11.TERRAIN	412418.00N/0811803.00W	1313 (1300)								AS1500	2800

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:



MISSED APPROACH ALTERNATE : LOC

FROM
4.34 NM AFTER KROOK INT/I-CGF 5.25 DME OR AT I-CGF 0.91 DME

TO
WEXER INT/DJB 35.52 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS				
							990				
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
10.TOWER (39-001493)	412632.39N/0812928.12W	1640	500	50	5D	1000					2700
11.TERRAIN	412418.00N/0811803.00W	1313 (1300)								AS1500	2800

COMPUTATIONS	ALT	KIAS	KTAS	HAA	VKTW	TR	BA	DTA	COURSE CHANGE	DVEB	VEB OCS	RF CENTER FIX/DISTANCE
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SEGMENT REMARKS:

CIRCLING

☐ ALL CATS

☒ CAT A

☒ CAT B

☒ CAT C

☒ CAT D

☐ CAT E

☐ NOT AUTHORIZED

OBSTRUCTION	COORDINATES	RADIUS	HAA	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
CATEGORY A											
12.TOWER (39-020939)	413232.12N/0812942.17W	1.30	524	1100	20	3	1A	300			1400
CATEGORY B											
13.TOWER (39-020623)	413147.56N/0812932.82W	1.84	624	1143	500	50	5D	300		AC50	1500
CATEGORY C											
14.ANTENNA (39-065858)	413116.61N/0812756.69W	2.89	684	1254	20	10	1A	300			1560
CATEGORY D											
15.AAO	413033.00N/0812703.00W	3.77	744	1315	50	20	2C	300			1620

CIRCLING REMARKS:



MSA

CENTER

CXR VOR/DME

RADIUS

25

<u>SECTOR</u>	<u>OBSTRUCTION</u>	<u>COORDINATES</u>	<u>BEARING</u>	<u>DISTANCE</u>	<u>ELEV MSL</u>	<u>HORZ</u>	<u>VERT</u>	<u>AC</u>	<u>ROC</u>	<u>OCS</u>	<u>ADJUSTMENTS</u>	<u>MIN ALT</u>
360-360	TWR (39-000134)	412148.00N/0814258.00W	255	26.6	2048	250	50	5D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

VEGETATION HEIGHT (100FT) USED PER FPT.
VDP NA WITH CLEVELAND-HOPKINS INT ALTIMETER SETTING.
WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE CLEVELAND-HOPKINS INTL ALTIMETER SETTING AND INCREASE ALL DA 57 FEET AND ALL MDA 60 FEET, INCREASE S- LOC VISIBILITY CATS C/D 1/8 SM, AND CIRCLING CAT C 1/4 SM.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZOB ARTCC, CLE APP CON, CGF TOWER

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KCGF	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCGF	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KCLE	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KCLE	<u>DISTANCE</u> 19.02	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 57

WX REMARKS:

<u>PRIMARY NAVAID</u> I-CGF	<u>MONITOR POINT</u> MOCC	<u>HRS OPERATION</u> 24	<u>CAT</u> 1
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW06 - HIRL (PCL), REIL (PCL), PAPI-4L		PIR-G	
RW24 - MALSR (PCL), HIRL (PCL), PAPI-4L		PIR-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 873.2	<u>TCH</u> 44.0	<u>ELEV GS ANTENNA</u> 863.9	<u>DISTANCE FROM RWY</u> 925	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 45.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	<input checked="" type="checkbox"/>	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE	500
ON CENTERLINE	<input checked="" type="checkbox"/>	FT FROM CENTERLINE		

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u>	<u>CRITICAL HIGH</u>	<u>ACT</u>	<u>APT ISA</u>
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

and/or
5280-FT "PROCEED VFR" SEGMENT LEVEL SURFACE AREA PENETRATIONS



AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
CUYAHOGA COUNTY	KCGF	ILS OR LOC RWY 24	16A	CLEVELAND	OH	876	I-CGF
PART C: GENERAL REMARKS:							
PRECIPITOUS TERRAIN EVALUATION COMPLETED.							
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.							

QUALITY
41
CHECKED

FAA Form 8260-9 / (11/16) Supersedes Previous Edition

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<u>AIRPORT</u> CUYAHOGA COUNTY	<u>AIRPORT ID</u> KCGF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 24	<u>AMDT NO.</u> 16A	<u>CITY</u> CLEVELAND	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 876	<u>FACILITY</u> I-CGF
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PART D: AIRSPACE

DOCKET #

ALL DISTANCES TO 1/100NM; ELEVATION TO NEAREST 100 FEET; COORDINATES TO 1/100 SECOND; DEG TO 1/100 DEGREE

DISTANCE FROM	THLD	TO 1000FT POINT	3.92
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.07
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	245.48
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	906
DISTANCE FROM	THLD	TO 1500FT POINT	5.45
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	1.40
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	245.48
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	896

THRESHOLD
COORDINATES
(IF STR-IN)

413406.89N/0812851.49W

ARP COORDINATES

413352.50N/0812914.00W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 24 DISTANCE 0.42 NM

FAF
COORDINATES

413656.04N/0812427.65W

FIX NAME
COORDINATES

REMARKS

THLD DISPLACED 500FT, ACTUAL COORDINATES: 413410.11N/0812846.47W.



<u>AIRPORT</u> CUYAHOGA COUNTY	<u>AIRPORT ID</u> KCGF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 24	<u>AMDT NO.</u> 16A	<u>CITY</u> CLEVELAND	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 876	<u>FACILITY</u> I-CGF
PART E: PREPARED BY							
<u>NAME</u> MIKE MELSSEN	<u>OFFICE</u> AJV-A432			<u>DATE</u> 12/10/2018	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST		

QUALITY
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