

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33**

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 ID</u> KBKL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24R	<u>ORIGINAL/AMENDMENT</u> 1	<u>CITY</u> CLEVELAND	<u>STATE</u> OH		
<u>AIRPORT ELEVATION</u> 584	<u>TDZE</u> 583	<u>SUPERSEDED</u> RNAV (GPS) RWY 24R	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>DATED</u> 05/24/2018	<u>MAG VAR</u> 7W	<u>EPOCH YEAR</u> 1990
<u>FACILITY</u> RNAV	<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>
CXR VOR/DME	IAF	SOOTO	NOPT	TF	FB	1.00	289.61	13.07	3000
SOOTO	IF/IAF	NAATE		TF	FB	1.00	265.07	5.00	2400
NAATE	FAF	JAYTO/1.64 NM TO LOLCY		TF	FB	0.30	264.99	3.08	
JAYTO/1.64 NM TO LOLCY		LOLCY	MAP	TF	FO	0.30	264.99	1.64	
LOLCY	MAP	984 MSL		CA			264.99		
984 MSL		TOMMK		DF	FB	1.00			2000
TOMMK		ZAMDO		TF	FO	1.00	339.88	5.00	3000

MISSED APPROACH

MAP:

LP: LOLCY
LNAV: LOLCY

MISSED APPROACH INSTRUCTIONS:

CLIMBING RIGHT TURN DIRECT TOMMK, CROSS TOMMK AT 2000, THEN CLIMB TO 3000 ON TRACK 339.88 TO ZAMDO AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

QUALITY
21
CHECKED

PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD E SOOTO, RT, 265.07 INBOUND, 3000 FT. IN LIEU OF PT (IF/IAF), MAX 6000.

3. FAC: 264.99FAF: NAATEDIST FAF TO MAP: 4.72DIST FAF TO THLD: 5.57

4. MIN ALT: SOOTO 3000, NAATE 2400, JAYTO/1.64 NM TO LOLCY 1420

5. DIST TO THLD FROM OM:MM:IM:150 HAT:GS ANT:

6. MIN GP INCPT:GP ALT AT FAF :OM:MM:IM:

7. GP ANGLE:34:1: IS NOT CLEAR20:1: IS CLEARTCH:

8. MSA FROM: LOLCY 3100

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: CIRCLING RWY 6R NA AT NIGHT.
CHART NOTE: RWY 24R HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: CIRCLING NA SE OF RWY 6R AND 24L.
FOR INOPERATIVE ALS, INCREASE LNAV CAT C/D VISIBILITY TO 1 3/8 SM.

ADDITIONAL FLIGHT DATA:

CHART CUYAHOGA COUNTY AIRPORT.
CHART MANDATORY 2000 AT TOMMK.
FICTITIOUS THRESHOLD POINT (CFFBK) DO NOT CHART.
HOLD N, RT, 159.84 INBOUND.
CHART FAS OBST: 849 TOWER 413137N/0813856W, 763 TOWER 413155N/0813804W.
WAAS CHANNEL # 77621
REFERENCE PATH ID: W24A
FAC CROSSES RWY C/L EXTENDED 5189 FT FROM THLD.
CHART CIRCLING ICON.
NAATE TO RW24R: 3.00/42.2.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 20 DEGREES.
FTP HAE: 143.1 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - NA WHEN LOCAL WEATHER NOT AVAILABLE.

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
LP MDA	1020	3/4	437	1020	3/4	437	1020	1	437	1020	1	437		QUALITY 21 CHECKED	
LNAV MDA	1100	3/4	517	1100	3/4	517	1100	1 1/4	517	1100	1 1/4	517			
CIRCLING	1100	1	516	1100	1	516	1140	1 1/2	556	1200	2	616			

CHANGES - REASONS

1. UNDER TERMINAL ROUTES CHANGED INITIAL SEGMENT FROM "FROM CXR VOR/DME (IAF) TO SICID (NOPT) (TF) (FB) (RNP 1.00) COURSE AND DISTANCE 310.38/13.74" TO "FROM CXR VOR/DME (IAF) TO SOOTO (NOPT) (TF) (FB) (RNP 1.00) COURSE AND DISTANCE 289.61/13.07" - THE APPROACH LEGS REDESIGNED TO ACCOMMODATE OBSTACLES AND ATC ALTITUDE RESTRICTIONS ALONG WITH A WAIVER LETTER.
2. UNDER TERMINAL ROUTES CHANGED INTERMEDIATE SEGMENT FROM "FROM SICID (IF/IAF) TO TABEY (TF) (FB) (RNP 1.00) COURSE AND DISTANCE 245.08/7.98" TO "FROM SOOTO (IF/IAF) TO NAATE (TF) (FB) (RNP 1.00) COURSE AND DISTANCE 265.07/5.00" - THE APPROACH LEGS REDESIGNED TO ACCOMMODATE OBSTACLES AND ATC MISSED APPROACH ALTITUDE RESTRICTIONS ALONG WITH ADJUSTMENTS CONTAINED IN THE WAIVER LETTER.
3. UNDER TERMINAL ROUTES DELETED "FROM TABEY (FAF) TO RW24R (MAP) (TF) (FO) (RNP 0.30) COURSE AND DISTANCE 244.98/5.57", "FROM RW24R (MAP) TO 984 MSL (CA) COURSE AND DISTANCE 244.98", "FROM 984 MSL TO ZAMDO (DF) (FB) (RNP 1.00)" AND "FROM ZAMDO TO GILLS (TF) (FO) (RNP 1.00) COURSE AND DISTANCE 357.14/9.55, ALTITUDE 4,000" REPLACED WITH "FROM NAATE (FAF) TO JAYTO/1.64 NM TO LOLCY (TF)(FB) (RNP 0.30) COURSE/DISTANCE 264.99/3.08", "FROM JAYTO/1.64 NM TO LOLCY (MAP) (TF) (FO) (RNP 0.30) COURSE AND DISTANCE 264.99/1.64", "FROM (LOLCY) (MAP) TO 984 MSL (CA) COURSE 264.99", "FROM 984 MSL TO TOMMK (DF) (FB) (RNP 1.00) ALTITUDE 2000" AND "FROM TOMMK TO ZAMDO (TF) (FO) COURSE AND DISTANCE 339.88/5.00 ALTITUDE 3000" - THE APPROACH LEGS REDESIGNED TO ACCOMMODATE OBSTACLES AND ATC MISSED APPROACH ALTITUDE RESTRICTIONS IN ADDITION TO ADJUSTMENTS REFERENCED IN THE WAIVER LETTER.
4. CHANGED MISSED APPROACH MAP DESCRIPTION FROM "LPV: DA; LNAV/VNAV: DA; LNAV: RW24R" TO "LP: LOLCY; LNAV: LOLCY" - ATC DIRECTED TO ELIMINATE LPV, LNAV/VNAV LINES OF MINIMA DUE TO OFFSET RESTRICTIONS THAT COULD NOT MEET HOLD DOWN AND OBSTACLE AVOIDANCE REQUIREMENTS AND MAP DESIGNATED PER CRITERIA.
5. PRIMARY MISSED APPROACH INSTRUCTIONS CHANGED FROM "CLIMBING RIGHT TURN TO 2000 DIRECT ZAMDO THEN CLIMB TO 4000 ON TRACK 357.14 TO GILLS AND HOLD. **MISSED APPROACH REQUIRES MINIMUM CLIMB OF 421 FEET PER NM TO 1900." TO "CLIMBING RIGHT TURN DIRECT TOMMK, CROSS TOMMK AT 2000, THEN CLIMB TO 3000 ON TRACK 339.88 TO ZAMDO AND HOLD." - PRIMARY INSTRUCTIONS CHANGED PER ATC/CHECKLIST.
6. PROFILE SECTION, LINE 2: CHANGED FROM "HOLD NE SICID, RT, 245.08 INBOUND, 3000 FT. IN LIEU OF PT (IAF)" TO "HOLD E SOOTO, RT, 265.07 INBOUND, 3000 FT. IN LIEU OF PT (IF/IAF), MAX 6000." - SICID MOVED MORE THAN 1 NM AND FIX NAME CHANGED TO SOOTO, HIL INBOUND COURSE CHANGED DUE TO FAC CHANGE AND MAX 6000 ADDED PER CRITERIA.
7. PROFILE SECTION, LINE 3: FAC AND FAF CHANGED FROM 244.98/TABEY TO 264.99/NAATE - FAF RELOCATED MORE THAN 1 NM.
8. PROFILE SECTION, LINE 4: UPDATED FROM "SICID 3000, TABEY 2400" TO "SOOTO 3000, NAATE 2400, JAYTO/1.64NM TO LOLCY 1420" - FAF MOVED, NEW CONTROLLING OBSTACLE AND FIXES REDEFINED.
9. PROFILE SECTION, LINE 6: ELIMINATED "MIN GS INCPT: 2400" AND GS ALT AT: TABEY 2400" - PROCEDURE IS NON PRECISION.
10. PROFILE SECTION, LINE 7: ELIMINATED "GS ANGLE: 3.00 AND TCH: 42.0" - PROCEDURE IS NON PRECISION AND INFORMATION MOVED TO ADDITIONAL FLIGHT DATA.
11. PROFILE SECTION, LINE 8: CHANGED "MSA FROM: RW24R 3100" TO "MSA FROM: LOLCY 3100" - MAP CHANGED.
12. CHART NOTE DELETED "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -16C (4F) OR ABOVE 40C (104F)" - LNAV/VNAV LINE OF MINIMA ELIMINATED.
13. CHART NOTE DELETED "CHART PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - NO LONGER REQUIRED DUE TO CHANGE TO NON-PRECISION APPROACH.
14. CHART NOTE CHANGED "CHART NOTE: FOR INOPERATIVE ALS, INCREASE LNAV CAT C AND D VISIBILITY TO 3 SM" TO "CHART NOTE: FOR INOPERATIVE ALS, INCREASE CAT C/D VISIBILITY TO 1 3/8 SM" - SUPPORTS NEW INOP TABLE.
15. ADDITIONAL FLIGHT DATA: ADDED "FAC CROSSES RWY C/L EXTENDED 5189 FT FROM THLD" - FAC OFFSET 20 DEGREES.
16. ADDITIONAL FLIGHT DATA: CHANGED "HOLD SW, RT, 030.82 INBOUND" TO "HOLD N, RT, 159.84 INBOUND" - MISSED APPROACH HOLDING RELOCATED AND HEADING CHANGED.
17. ADDITIONAL FLIGHT DATA: DELETED "DISTANCE TO THLD FROM 666 HAT: 1.96 NM." - NON PRECISION APPROACH NO LONGER REQUIRED AS PER CRITERIA.
18. ADDITIONAL FLIGHT DATA: REMOVED "CHART VDP AT 3.10 NM TO RW24R* *LNAV ONLY" - NOT PUBLISHABLE DUE TO VDP LOCATED WITHIN 0.4 NM FROM THE MAP.
19. ADDITIONAL FLIGHT DATA: ADDED "CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 20 DEGREES." - FAC OFFSET 20 DEGREES PER ATC.
20. ADDITIONAL FLIGHT DATA: ADDED "NAATE TO RW24R: 3.00/42.2" - NON PRECISION INFORMATION MOVED FROM PROFILE SECTION TO ADDITIONAL FLIGHT DATA SECTION.
21. ADDITIONAL FLIGHT DATA: ADDED "CHART FAS OBST: 849 TOWER 413137N/0813856W, 763 TOWER 413155N/0813804W." - NEW MAP STUDY COMPLETED.
22. ADDITIONAL FLIGHT DATA: ADDED "CHART CUYAHOGA COUNTY AIRPORT" - PROXIMITY TO BURKE LAKEFRONT AIRPORT.
23. LPV, LNAV/VNAV LINES OF MINIMUM REMOVED - PER ATC.
24. LP LINE OF MINIMA ADDED AND LNAV MINIMUMS MDA/HAT CHANGED FROM 1620/1037 TO 1100/517 AND CAT A VISIBILITY CHANGED FROM 1 SM TO ¾ SM, CAT B VISIBILITY CHANGED FROM 1 ¼ SM TO ¾ SM AND CAT C/D VISIBILITY CHANGED FROM 2 ½ SM TO 1 ¼ SM - FINAL MOVED RESULTING IN NEW MAP STUDY AND VISIBILITY CALCULATIONS COMPLETED.
25. CIRCLING MINIMUMS MDA/HAA CHANGED FROM 1620/1036 ALL CATS TO 1100/516 CAT A/B, 1140/556 CAT C AND 1200/616 CAT D - FINAL MOVED RESULTING IN NEW MAP STUDY.
26. CIRCLING VISIBILITIES CATS A/B CHANGED FROM 1 1/4 SM TO 1 SM, CAT C VISIBILITY CHANGED FROM 3 SM TO 1 1/2 SM AND CAT D VISIBILITY CHANGED FROM 3 SM TO 2 SM - NEW VISICHECK CALCULATED.
27. CRC REMAINDER CHANGED FROM "EC005A07" TO "00FC7B08" - LTP/FTP LATITUDE AND LONGITUDE CHANGED FROM "413122.3900N/0814024.5385W" TO "413138.8870N/0814033.4470W", FPAP LATITUDE AND LONGITUDE CHANGED FROM "413035.0200N/0814205.0200W" TO "413120.2015N/0814229.4340W", TCH CHANGED FROM "42.0" TO "42.2", LENGTH OFFSET CHANGED FROM "0920" TO "0000" AND VERTICAL ALERT LIMIT CHANGED FROM "50" TO "0".
28. ADDITIONAL FLIGHT DATA: ADDED "CHART MANDATORY 2000 AT TOMMK" - PER ATC.



AIRPORT ID
KBKL

PROCEDURE NAME
RNAV (GPS) RWY 24R

ORIGINAL/AMENDMENT
1

CITY
CLEVELAND

STATE
OH

COORDINATED WITH:

A4A ☒ ALPA ☒ AOPA ☒ APA ☒ HAI ☐ NBAA ☒ OTHER: CLE APP, BKL ATCT, AMGR

FLIGHT CHECKED BY

JAMES ONIEAL

Digitally signed by

DAVID TEFFETELLER

Apr 30, 2021

OFFICE

FICO

DATE

04/28/2021

DEVELOPED BY

JAY BAGGETT

Digitally signed by

JAY D BAGGETT

Jan 19, 2021

OFFICE

AJV-A432

DATE

10/06/2020

APPROVED BY

LONNIE EVERHART

Digitally signed by

DAVID TEFFETELLER

Apr 30, 2021

OFFICE

AJV-A430

DATE

TITLE
MANAGER

QUALITY
21
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBKL
RUNWAY	RW24R
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W24A
LTP/FTP LATITUDE	413138.8870N
LTP/FTP LONGITUDE	0814033.4470W
LTP/FTP ELLIPSOIDAL HEIGHT	+01431
FPAP LATITUDE	413120.2015N
FPAP LONGITUDE	0814229.4340W
THRESHOLD CROSSING HEIGHT (TCH)	00042.2
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)	0.0
CRC REMAINDER	00FC7B08

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+01775
FPAP ORTHOMETRIC HEIGHT	+01775

QUALITY
21
CHECKED

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

<u>AIRPORT ID</u> KBKL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24R	<u>AMDT NO.</u> 1	<u>CITY</u> CLEVELAND	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 584	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
CXR VOR/DME

TO
SOOTO

<u>RNP</u>	<u>DISTANCE</u> 13.07	<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>
TOWER (39-001618)	413024.00N/0811132.00W		1609	500	50	5D	1000				AT391	3000
TERRAIN	412957.00N/0811157.00W		1371 (1400)								AS1500	2900

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
SOOTO (IF/IAF)

TO
NAATE

<u>RNP</u>	<u>DISTANCE</u> 5.00	<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>
TOWER (39-027407)	413200.64N/0812738.63W		1173	250	50	4D	500				AT727	2400
TERRAIN	413139.00N/0812803.00W		1105 (1100)								AS1000	2100

COMPUTATIONS

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

SEGMENT REMARKS:

QUALITY
21
CHECKED

FINAL: LP

FROM
NAATE

TO
JAYTO/1.64 NM TO LOLCY

<u>RNP</u>	<u>DISTANCE</u> 3.08	<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>
BUILDING (39-002771)	413226.08N/0813357.84W		1028	50	20	2C	250				RA60 DG82	1420

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

FINAL: LP STEPDOWN

FROM
JAYTO/1.64 NM TO LOLCY

TO
LOLCY

<u>RNP</u>	<u>DISTANCE</u> 1.64	<u>PAT</u>	<u>MAP</u> LOLCY	<u>HAT</u> 437			<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>
TOWER (39-002511)	413154.84N/0813804.09W		763	20	3	1A	250					1020

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



FINAL: LNAV

FROM

NAATE

TO

JAYTO/1.64 NM TO LOLCY

<u>RNP</u>	<u>DISTANCE</u> 3.08	<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>
AAO	413152.57N/0813329.14W		1040	50	20	2C	250				RA60 DG70	1420

COMPUTATIONS

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

FINAL: LNAV STEPDOWN

FROM

JAYTO/1.64 NM TO LOLCY

TO

LOLCY

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	1.64		LOLCY	517								
<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>
TOWER (39-000647)	413137.06N/0813855.71W		849	20	3	1A	250					1100

COMPUTATIONS

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



HOLD-IN-LIEU OF PT

FROM
SOOTO

TO
P-5

RNP	DISTANCE	PAT P-5	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
TOWER (39-102374)	413459.88N/0811554.06W		1625	50	20	2C	1000				AT375	3000
TERRAIN	413451.00N/0811554.00W		1341 (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 : LP

FROM
LOLCY

TO
ZAMDO

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 920					
<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				3000
BLDG (39-000977)	413019.03N/0814119.26W		1194	20	3	1A	1000				SA-111	2100
TERRAIN	413139.00N/0813900.00W		659 (700)								AS1500	2200

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 : LNAV

FROM

LOLCY

TO

ZAMDO

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1000					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
BLDG (39-000977)	413019.03N/0814119.26W		1194	20	3	1A	1000				SA-111	2100
TERRAIN	413139.00N/0813900.00W		659 (700)								AS1500	2200

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											
TOWER (39-000801)	413147.86N/0813857.11W	1.30	516	758	20	3	1A	300		SI	1100
CATEGORY B											
TOWER (39-000801)	413147.86N/0813857.11W	1.83	516	758	20	3	1A	300		SI	1100
CATEGORY C											
TOWER (39-004339)	412917.82N/0814344.80W	2.87	556	838	20	3	1A	300			1140
CATEGORY D											
AAO	412823.23N/0814500.96W	3.75	616	900	50	20	2C	300			1200

CIRCLING REMARKS:



MSA

CENTER

LOLCY

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TOWER (39-002035)	412302.00N/0814143.00W	198	09.0	2048	500	50	5D	1000			3100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
CLE APP CON, BKL TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> KBKL	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KBKL	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> AWOS-3PT	<u>LOCATION</u> KLNN	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLNN	<u>DISTANCE</u> 16.547	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 44

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KBKL 584, KLNN 621
RA=43.4

<u>PRIMARY NAVAID</u>	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>		<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW06R - HIRL		BSC-G	
RW24L - HIRL, REIL		BSC-G	
RW06L - HIRL, REIL, PAPI-4R		PIR-G	
RW24R - MALSF (PCL), HIRL, PAPI-4R		PIR-G	

<u>GLIDESLOPE ANGLE</u>	<u>ELEV RWY THRESHOLD</u>	<u>TCH</u>	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u>	<u>TCH</u>
					3.00	42.2

FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD

☐

5189

FT FROM THRESHOLD

DISPLACED THRESHOLD DISTANCE

600

ON CENTERLINE

☒

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

Final Type	CIRCLING RWY 6R		
20:1			
757 STADIUM (39-038718) 413025.15N/0814158.35W (26.14)			
Final Type	LP, LNAV		
34:1			
704 BUILDING (39-001162) 413134.61N/0813943.80W (30.84)		703 BUILDING (39-022732) 413135.01N/0813941.10W (24.09)	
690 BUILDING (39-022731) 413132.63N/0813941.98W (16.52)		675 TRANSMISSION_LINE (39-099597) 413130.14N/0813946.04W (13.15)	
674 POLE (39-022395) 413130.61N/0813945.97W (11.27)		665 POLE (39-022394) 413133.64N/0813948.87W (2.98)	
679 BRIDGE (39-022589) 413135.24N/0813942.39W (2.17)			

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

VGS (LP & LNAV) PENETRATION: 704 BUILDING (39-001162) 413134.61N/0813943.80W (6.88).

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE WILLOUGHBY ALTIMETER SETTING AND INCREASE ALL MDAS 60 FEET AND INCREASE LP/LNAV CATS C/D VISIBILITY 1/8 SM AND CIRCLING CATS C/D VISIBILITY 1/4 SM.

MISSED APPROACH MANDATORY ALTITUDE OF 2000 DEVELOPED PER FPT/ATC TO PROTECT FOR TRAFFIC AT CLEVELAND-HOPKINS INTL DESCENDING ON FINAL TO 3000.

WAIVER: ORDER 8260.3D, PARAGRAPH 2-8-1; TO USE A MANDATORY ALTITUDE IN THE MISSED APPROACH.

100' VEGETATION PER FPT.

VDP NOT ESTABLISHED - VDP IS LOCATED WITHIN 0.4 NM FROM MAP.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KBKL	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 24R	<u>AMDT NO.</u> 1	<u>CITY</u> CLEVELAND	<u>STATE</u> OH	<u>AIRPORT ELEVATION</u> 584	<u>FACILITY</u> RNAV
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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	MAP	TO 1000FT POINT	3.05
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	257.99
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	900
DISTANCE FROM	MAP	TO 1500FT POINT	8.92
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	258.07
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	1100

THRESHOLD
COORDINATES
(IF STR-IN)

ARP COORDINATES413104.30N/0814057.50W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 24R DISTANCE 0.61 NM

FAF
COORDINATES413248.74N/0813317.87W

FIX NAME
COORDINATESIF SOOTO: 413350.98N/0812646.96W

REMARKS

THE MAP IS LOLCY. LOLCY: 413149.62 N / 0813926.73 W. RWY 24R IS OFFSET 20 DEGREES FOR OBSTACLES IN THE MISSED APPROACH OEA. MAP IS 5189 FT FROM RWY 24R THLD.
THLD DISPLACED 600FT, ACTUAL COORDINATES: 413125.54N/0814017.86W.

QUALITY
21
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> JAY BAGGETT	<u>OFFICE</u> AJV-A432	<u>DATE</u> 10/06/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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