

**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> 07K	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-B	<u>CITY</u> CENTRAL CITY	<u>STATE</u> NE		
<u>AIRPORT ELEVATION</u> 1717	<u>TDZE</u> 1717	<u>SUPERSEDED</u> RNAV (GPS) RWY 16	<u>ORIGINAL/AMENDMENT</u> ORIG-A	<u>DATED</u> 02/05/2015	<u>MAG VAR</u> 5E	<u>EPOCH YEAR</u> 2010
<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>
HUDNI	IAF	ZAMOG	NOPT	TF	FB	1.00	225.93	10.98	4000
ZAMOG	IF/IAF	WOMAM		TF	FB	1.00	158.20	6.15	3300
WOMAM	FAF	OMEYY/1.60 NM TO RW16		TF	FB	0.30	158.21	3.25	
OMEYY/1.60 NM TO RW16		RW16	MAP	TF	FO	0.30	158.22	1.60	
RW16	MAP	2010 MSL		CA			158.22		
2010 MSL		HOMKI		DF	FO	1.00			4000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW16

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 4000 DIRECT HOMKI AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD N ZAMOG, RT, 158.20 INBOUND, 4000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 158.21FAF: WOMAMDIST FAF TO MAP: 4.85DIST FAF TO THLD: 4.85

4. MIN ALT: ZAMOG 4000, WOMAM 3300, OMEYY/1.60 NM TO RW16 2260

5. DIST TO THLD FROM OM:MM:IM:150 HAT:293 HAT: 0.79GS ANT:

6. MIN GP INCPT: 3300GP ALT AT PFAF : WOMAM 3300OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS NOT CLEAR20:1: IS CLEARTCH: 40.0

8. MSA FROM: RW16 4100

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART NOTE: USE AURORA ALTIMETER SETTING; WHEN NOT RECEIVED, USE GRAND ISLAND ALTIMETER SETTING AND INCREASE LPV DA TO 2020 FEET. INCREASE LNAV/VNAV DA TO 2020 FEET. INCREASE ALL MDAS 20 FEET.
CHART NOTE: BARO-VNAV NA.

ADDITIONAL FLIGHT DATA:

HOLD S, RT, 338.29 INBOUND.
CHART FAS OBST: 1774 TREE 410825N/0980434W.
WAAS CHANNEL # 82220
REFERENCE PATH ID: W16A
LTP HAE: 497.6 M

MINIMUMS:

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

ALTERNATE: NA ☒

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
LPV DA	2010	1	293	2010	1	293		NA			NA				
LNAV/VNAV DA	2010	1	293	2010	1	293		NA			NA				
LNAV MDA	2080	1	363	2080	1	363		NA			NA				
CIRCLING	2140	1	423	2180	1	463		NA			NA				



CHANGES - REASONS

1. INCORPORATED CHANGES FROM P-NOTAM FOR AMDT ORIG-A INTO FORM - IAW 8260.19I, 8-3-4.C(3).
2. TERMINAL ROUTES: REMOVED IAF "OBH VORTAC TO ZAMOG" - OBH VORTAC DECOMMISSIONING VOR MON.
3. REMOVED THE "*" FROM OMEYY/1.60 NM TO RW16 2260 ON PROFILE LINE 4 AND REMOVED "LNAV ONLY" FROM NOTES - NO LONGER REQUIRED PER CURRENT CRITERIA.
4. PROFILE LINE 2: ADDED "MAX 6000" - IAW 8260.19I, 8-6-7.B.(2).
5. PROFILE LINE 5: ADDED 293 HAT: 0.79 - IAW 8260.19, 8-6-7.
6. PROFILE LINE 7: ADDED "20:1 IS CLEAR" - IAW 8260.19I, 8-6-7.G(3)(A).
7. CHANGED CHART NOTE FROM: "VISIBILITY REDUCTION BY HELICOPTERS NA" TO "RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - IAW 8260.19I, 8-6-11.K(3).
8. UPDATED CHART NOTE FROM: "USE AURORA ALTIMETER SETTING; WHEN NOT RECEIVED, USE GRAND ISLAND ALTIMETER SETTING AND INCREASE ALL DA 9 FEET AND ALL MDA 20 FEET" TO "USE AURORA MUNI - AL POTTER FIELD ALTIMETER SETTING; WHEN NOT RECEIVED, USE GRAND ISLAND ALTIMETER SETTING AND INCREASE LPV DA TO 2020 FEET. INCREASE LNAV/VNAV DA TO 2020 FEET. INCREASE ALL MDAS 20 FEET - IAW 8260.19I, 8-6-9.F.
9. DELETED "DME/DME RNP-0.3" AND ADDED PBN REQUIREMENTS NOTE: "RNP APCH - GPS" - IAW 8260.19I, 8-6-8.B(2).
10. DELETED PLAINVIEW NOTE: "PROCEDURE NA FOR ARRIVALS ON OBH VORTAC AIRWAY RADIALS 041 CW 169" - OBH VORTAC DECOMMISSIONING VOR MON.
11. ADDITIONAL FLIGHT DATA: REMOVED "DISTANCE TO THLD FROM 293 HATH: 0.79 NM." - DATA NOW DOCUMENTED IN PROFILE LINE 5.

COORDINATED WITH:

A4A ☐ **ALPA** ☒ **AOPA** ☒ **APA** ☐ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZMP

FLIGHT CHECKED BY

PROCESSED IAW TECHNICAL SUPPORT GROUP (AJF-17) MEMO DATED 07/07/2021 GUIDANCE FOR PROCEDURAL CHANGES REQUIRING FLIGHT INSPECTION/VALIDATION

OFFICE**DATE**

Digitally signed by

JASON KRETSCHMER

Mar 02, 2023

DEVELOPED BY

ALLAN WILL (PHILLIP T. HILL01)

Digitally signed by

JASON KRETSCHMER

Mar 02, 2023

OFFICE

AJV-A423

DATE

12/09/2022

APPROVED BY

ALLAN WILL

Digitally signed by

JASON KRETSCHMER

Mar 02, 2023

OFFICE

AJV-A423

DATE

12/09/2022

TITLE

MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	07K
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16A
LTP/FTP LATITUDE	410659.1215N
LTP/FTP LONGITUDE	0980311.7780W
LTP/FTP ELLIPSOIDAL HEIGHT	+04976
FPAP LATITUDE	410533.7600N
FPAP LONGITUDE	0980237.7800W
THRESHOLD CROSSING HEIGHT (TCH)	00040.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1624
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	5FF3F06A

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+05228
FPAP ORTHOMETRIC HEIGHT	+05228



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

<u>AIRPORT ID</u> 07K	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 16	<u>AMDT NO.</u> ORIG-B	<u>CITY</u> CENTRAL CITY	<u>STATE</u> NE	<u>AIRPORT ELEVATION</u> 1717	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
HUDNI

TO
ZAMOG

<u>RNP</u>	<u>DISTANCE</u> 10.98	<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>
3.TOWER (31-001000)	412133.00N/0975946.00W		2186	20	3	1A	1000				AT814	4000
4.TERRAIN	412003.00N/0980712.00W		1887 (1900)								AS1500	3400

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM
ZAMOG (IF/IAF)

TO
WOMAM

<u>RNP</u>	<u>DISTANCE</u> 6.15	<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	411418.00N/0980842.00W		2021	164	98	4E	500				AC98	2700
6.TERRAIN	411424.00N/0980836.00W		1821 (1800)								AS1500	3300

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LPV

FROM
WOMAM

TO
RW16

<u>RNP</u>	<u>DISTANCE</u> 4.85	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 293			<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>
7.TREE (31-024840)	410711.77N/0980311.07W		1766	50	20	2C		34.00:1			RA43	2010

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/VNAV

FROM
WOMAM

TO
RW16

<u>RNP</u>	<u>DISTANCE</u> 4.85	<u>PAT</u>	<u>MAP</u> DA	<u>HAT</u> 293			<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			RA43	2010

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

WOMAM

TO

OMEYY/1.60 NM TO RW16

<u>RNP</u>	<u>DISTANCE</u> 3.25	<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>
9.AAO	411058.21N/0980548.94W		1934	50	20	2C	250				DG33 RA43	2260

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

OMEYY/1.60 NM TO RW16

TO

RW16

<u>RNP</u>	<u>DISTANCE</u> 1.60	<u>PAT</u>	<u>MAP</u> RW16	<u>HAT</u> 363			<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>
10.TREE	410824.90N/0980434.08W		1774	50	20	2C	250				RA43	2080

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
ZAMOG

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
11.AAO	412451.00N/0981603.00W		2225	164	98	4E	1000				AT775	4000
12.TERRAIN	412451.00N/0981603.00W		2025 (2000)								AS1500	3500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : LPV

FROM
DA

TO
HOMKI

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1802					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				4000
13.AAO	410000.01N/0980224.01W		2044	50	20	2C	1000					3100
14.TERRAIN	410000.01N/0980224.01W		1844 (1800)								AS1500	3300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FACILITY
RNAV

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											
15.TREE	410510.44N/0980300.59W	1.32	423	1779	50	20	2C	300		RA43	2140
CATEGORY B											
15.TREE	410510.44N/0980300.59W	1.87	463	1779	50	20	2C	300		RA43	2180

CIRCLING REMARKS:

MSA

CENTER
RW16

RADIUS
25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (31-000259)	404620.00N/0980522.00W	180	20.7	3045	500	50	5D	1000			4100

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
OLU FSS, ZMP ARTCC

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KAUH	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KAUH	<u>DISTANCE</u> 13.31	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 43
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KGRI	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KGRI	<u>DISTANCE</u> 14.55	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 52

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME:
KAUH 1803.4, KGRI 1847.1, K07K 1716.7
RA=42.71/51.75

<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>
RW16 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	
RW34 - MIRL (PCL), PAPI-2L (PCL)		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1715.1	<u>TCH</u> 40.0	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 40.0
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FINAL APPROACH COURSE AIMING

RUNWAY THRESHOLD	☒	FT FROM THRESHOLD	DISPLACED THRESHOLD DISTANCE
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	LPV, LNAV/VNAV, LNAV		
34:1			
1752 TREES (K07KT018) 410712.23N/0980312.28W (5.11)		1758 TREES (K07KT017) 410712.24N/0980313.16W (10.51)	
1762 TREES (K07KT013) 410711.76N/0980312.50W (16.30)		1765 TREES (K07KT012) 410711.80N/0980313.28W (18.68)	

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:

VDP NOT ESTABLISHED - REMOTE PRIMARY ALTIMETER.

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

AVERAGE VEGETATION HEIGHT: 50 FT PER FPT

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID 07K	PROCEDURE NAME RNAV (GPS) RWY 16	AMDT NO. ORIG-B	CITY CENTRAL CITY	STATE NE	AIRPORT ELEVATION 1717	FACILITY 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	THLD	TO 1000FT POINT	3.28
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	163.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1800
DISTANCE FROM	THLD	TO 1500FT POINT	4.85
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	2.13
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	163.21
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1800

THRESHOLD
COORDINATES
(IF STR-IN)

410659.12N/0980311.78W

ARP COORDINATES

410641.62N/0980304.81W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 34 DISTANCE 0.30 NM

FAF
COORDINATES

411137.94N/0980503.02W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY

34

CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> ALLAN WILL (PHILLIP T. HILL01)	<u>OFFICE</u> AJV-A423	<u>DATE</u> 12/09/2022	<u>TITLE</u>
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