

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> KBIE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> 2D	<u>CITY</u> BEATRICE	<u>STATE</u> NE		
<u>AIRPORT ELEVATION</u> 1324	<u>TDZE</u> 1307	<u>SUPERSEDED</u> RNAV (GPS) RWY 36	<u>ORIGINAL/AMENDMENT</u> 2C	<u>DATED</u> 11/03/2022	<u>MAG VAR</u> 4E	<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>
MARXN	IAF	KUDDDS	NOPT	TF	FB	1.00	265.74	8.00	3100
STEEL	IAF	KUDDDS	NOPT	TF	FB	1.00	076.66	18.31	3100
KUDDDS	IF/IAF	ANDRS		TF	FB	1.00	355.63	8.00	3000
ANDRS	FAF	RW36	MAP	TF	FO	0.30	355.63	5.19	
RW36	MAP	1507 MSL		CA			355.63		
1507 MSL		HAMUL		DF	FO	1.00			3900

MISSED APPROACH

MAP:

LPV: DA
 LNAV/VNAV: DA
 LNAV: RW36

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3900 DIRECT HAMUL AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF

(IAF)

2. HOLD S KUDD'S, RT, 355.63 INBOUND, 3100 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAF: 355.63FAF: ANDRSDIST FAF TO MAP: 5.19DIST FAF TO THLD: 5.19

4. MIN ALT: KUDD'S 3100, ANDRS 3000

5. DIST TO THLD FROM OM:MM:IM:150 HAT:200 HAT: 0.50GS ANT:

6. MIN GP INCPT: 3000GP ALT AT PFAF : ANDRS 3000OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 41.4

8. MSA FROM: RW36 3300

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT STEEL ON T468 AND V532 SOUTHWEST BOUND.
CHART NOTE: WHEN ALS INOP INCREASE LNAV CATS A/B TO 1 SM.
CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY TO LPV AND LNAV/VNAV ALL CATS.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 175.63 INBOUND.
FAS OBST: 1590 AAO 401320N/0964455W.
1610 AAO 401224N/0964629W.
CHART VDP AT 1.54 NM TO RW36.
WAAS CHANNEL # 61099
REFERENCE PATH ID: W36A
CHART CIRCLING ICON.
LTP HAE: 370.6 M

MINIMUMS:

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

ALTERNATE: NA ☐ STANDARD - CAT D 800-2 1/2, 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
LPV DA	1507	3/4	200	1507	3/4	200	1507	3/4	200	1507	3/4	200			
LNAV/VNAV DA	1557	3/4	250	1557	3/4	250	1557	3/4	250	1557	3/4	250			
LNAV MDA	1840	3/4	533	1840	3/4	533	1840	1	533	1840	1	533			
CIRCLING	1840	1	516	1840	1	516	2000	2	676	2100	2 1/2	776			



CHANGES - REASONS

1. UPDATED CHART PLANVIEW NOTE: FROM "PROCEDURE NA FOR ARRIVALS AT STEEL ON V216 AND V532 SOUTHWEST BOUND" TO "PROCEDURE NA FOR ARRIVALS AT STEEL ON T468 AND V532 SOUTHWEST BOUND." - PER FPT; V216 CANCELLED BETWEEN TKO VORTAC AND LMN VOR/DME; T468 ADDED.

COORDINATED WITH:

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

FLIGHT CHECKED BY

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

OFFICE *Digitally signed by*
CASIMIR L TABAKA

DATE

Jul 14, 2023

DEVELOPED BY

CASIMIR L. TABAKA (BARBARA GORMAN)

Digitally signed by
CASIMIR L TABAKA

OFFICE

AJV-A432

DATE

07/03/2023

APPROVED BY

CASIMIR TABAKA

Digitally signed by
CASIMIR L TABAKA

Jul 14, 2023

OFFICE

AJV-A430

DATE

TITLE
MANAGER

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBIE
RUNWAY	RW36
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W36A
LTP/FTP LATITUDE	401740.0155N
LTP/FTP LONGITUDE	0964512.6375W
LTP/FTP ELLIPSOIDAL HEIGHT	+03706
FPAP LATITUDE	401909.1800N
FPAP LONGITUDE	0964513.3900W
THRESHOLD CROSSING HEIGHT (TCH)	00041.4
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1040
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	35.0
CRC REMAINDER	06045819

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K3
LTP ORTHOMETRIC HEIGHT	+03976
FPAP ORTHOMETRIC HEIGHT	+03976

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

<u>AIRPORT ID</u> KBIE	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 36	<u>AMDT NO.</u> 2D	<u>CITY</u> BEATRICE	<u>STATE</u> NE	<u>AIRPORT ELEVATION</u> 1324	<u>FACILITY</u> RNAV
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PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM MARXN TO KUDDS

<u>RNP</u>	<u>DISTANCE</u> 8.00	<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>
												AAO	400236.00N/0964357.00W	1631	164	98	4E	1000				AT469	3100
												TERRAIN	400239.00N/0964400.00W	1431 (1400)								AS1500	2900

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM STEEL TO KUDDS

<u>RNP</u>	<u>DISTANCE</u> 18.31	<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 (31-000185)	400324.00N/0965610.00W	1829	250	50	4D	1000					2900
												TERRAIN	400042.00N/0970721.00W	1611 (1600)								AS1500	3100

COMPUTATIONS

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

SEGMENT REMARKS:



INTERMEDIATE

FROM

KUDD5 (IF/IAF)

TO

ANDRS

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	8.00											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	401157.00N/0964633.00W		1621	164	98	4E	500				AC98 AT781	3000
TERRAIN	401148.00N/0964654.00W		1420 (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:

FINAL: LPV

FROM

ANDRS

TO

RW36

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	5.19		DA	200								
<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				1507

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

ANDRS

TO

RW36

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.19		DA	250								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				1557

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

ANDRS

TO

RW36

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	5.19		RW36	533								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
AAO	401319.59N/0964454.89W		1590	50	20	2C	250					1840

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
KUDDS

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 (20-002232)	395736.00N/0964406.00W		1679	500	50	5D	1000				AT421	3100
TERRAIN	400206.00N/0964406.00W		1430 (1400)								AS1500	2900

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
HAMUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1341					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
TOWER (31-000696)	403105.60N/0964606.40W		2257	250	50	4D	1000					3300
TERRAIN	403039.00N/0964536.00W		1482 (1500)								AS1500	3000

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LNAV/VNAV

FROM

DA

TO

HAMUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1396					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
TOWER (31-000696)	403105.60N/0964606.40W		2257	250	50	4D	1000					3300
TERRAIN	403039.00N/0964536.00W		1482 (1500)								AS1500	3000

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

RW36

TO

HAMUL

RNP	DISTANCE	PAT	MAP	HAT			HMAS 1740					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3900
TOWER (31-000696)	403105.60N/0964606.40W		2257	250	50	4D	1000					3300
TERRAIN	403039.00N/0964536.00W		1482 (1500)								AS1500	3000

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 (31-000832)	401901.70N/0964446.90W	1.31	516	1459	250	50	4D	300		SI	1840
CATEGORY B											
TANK (31-000852)	401640.00N/0964342.00W	1.85	516	1481	50	20	2C	300		SI	1840
CATEGORY C											
TOWER (31-000050)	401549.11N/0964626.83W	2.91	676	1681	20	3	1A	300			2000
CATEGORY D											
TOWER (31-000498)	401454.00N/0964738.00W	3.81	776	1798	50	20	2C	300			2100

CIRCLING REMARKS:

MSA

CENTER	RADIUS
RW36	25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	TWR (31-000696)	403106.00N/0964608.00W	353	13.4	2249	500	50	5D	1000			3300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

TAA NOT APPLIED AS PER ATC REQUEST.

ALL VEGETATION ASSUMED 60' PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZMP ARTCC, GFK FSS

<u>WX SERVICE</u> AWOS-3	<u>LOCATION</u> KBIE	<u>HRS OPERATION</u> 0	<u>ALTIMETER SOURCE</u> KBIE	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KLNK	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KLNK	<u>DISTANCE</u> 32.96	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 91

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME
KBIE 1324, KLNK 1219
RA = 90.5.

<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>
RW14 - MIRL, REIL (PCL)		NPI-G	
RW18 - MIRL		NPI-G	
RW32 - MIRL, REIL (PCL)		NPI-G	
RW36 - MALSR (PCL), MIRL, PAPI-2L		NPI-G	

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1304.6	<u>TCH</u> 41.4	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 41.4
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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> -17C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -17C	<u>APT ISA</u> +12.38C
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CRITICAL TEMPERATURE REMARKS:

AVERAGE COLD TEMPERATURE DERIVED FROM STANDARD -30C ISA DEVIATION.
CRITICAL LOW TEMPERATURE BASED ON ACT.
DESCENT RATE (FPM): STANDARD TEMP 973 HIGH TEMP 1283.



"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

<u>PENETRATIONS REMARKS:</u>

PART C: GENERAL REMARKS:

PRECIPITOUS TERRAIN EVALUATION COMPLETED.

BACK-UP ALTIMETER NOTES:
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE LINCOLN ALTIMETER SETTING AND INCREASE LPV DA TO 1598 FEET; INCREASE LNAV/VNAV DA TO 1648 FEET; INCREASE ALL MDAS 100 FEET AND VISIBILITY LNAV CATS C/D VISIBILITY 3/8 SM, AND VISIBILITY CIRCLING CATS C/D 1/4 SM.
CHART NOTE: VDP NA WITH LINCOLN ALTIMETER SETTING.
CHART NOTE: BARO-VNAV NA WHEN USING LINCOLN ALTIMETER SETTING.

ORDER 8260.3 CHAPTER 2 APPLIED TO 1610 AAO 401224.40N/0964628.76W.

ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



AIRPORT ID KBIE	PROCEDURE NAME RNAV (GPS) RWY 36	AMDT NO. 2D	CITY BEATRICE	STATE NE	AIRPORT ELEVATION 1324	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	3.31
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	359.63
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	1400
DISTANCE FROM	THLD	TO 1500FT POINT	4.99
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.95
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	359.63
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	1400

THRESHOLD
COORDINATES
(IF STR-IN)

401740.02N/0964512.64W

ARP COORDINATES

401804.60N/0964514.80W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

FAF
COORDINATES

401228.18N/0964510.01W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED.

QUALITY
30
CHECKED

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

Electronic Version

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PART E: PREPARED BY

<u>NAME</u> CASIMIR L. TABAKA (BARBARA GORMAN)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 07/03/2023	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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