

**FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) SPECIAL INSTRUMENT APPROACH PROCEDURE
SPECIFICATION – NOT FOR COCKPIT USE**

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.

If an instrument approach procedure of the above type is conducted at the below named airport, it shall be conducted in accordance with a charted instrument approach procedure predicted on the specifications contained herein, unless an approach is conducted in accordance with a different procedure for such airport authorized by the Administrator. Minimum altitudes shall correspond with those established for enroute operations in the particular area or as set forth below.

<u>AIRPORT</u> LEEWARD FARM	<u>AIRPORT ID</u> WS51	<u>PROCEDURE NAME</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 1A	<u>CITY</u> SOLDIERS GROVE	<u>STATE</u> WI
<u>AIRPORT ELEVATION</u> 1068	<u>TDZE</u> 1065	<u>SUPERSEDED</u> RNAV (GPS) RWY 29	<u>ORIGINAL/AMENDMENT</u> 1	<u>DATED</u> 09/14/2017	<u>MAG VAR</u> 0E
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2000

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>
QUEST		OFIHO		TF	FO	1.00	089.98	23.48	3000
OFIHO	IF/IAF	LEVMY		TF	FB	1.00	290.54	5.64	2800
LEVMY	FAF	WURNU/2.00 NM TO RW29		TF	FB	0.30	290.46	3.36	
WURNU/2.00 NM TO RW29		RW29	MAP	TF	FO	0.30	290.46	2.00	
RW29	MAP	1315 MSL		CA			290.46		
1315 MSL		OMETY		DF	FO	1.00			3000

MISSED APPROACH

MAP:

LPV: DA
LNAV/VNAV: DA
LNAV: RW29

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 3000 DIRECT OMETY AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS:



PROFILE:

1. PT

SIDE OF COURSE

OUTBOUND

FT WITHIN

MILES OF (IAF)

2. HOLD E OFIHO, RT, 290.54 INBOUND, 3000 FT. IN LIEU OF PT (IAF), MAX 6000.

3. FAC: 290.46FAF: LEVMYDIST FAF TO MAP: 5.36DIST FAF TO THLD: 5.36

4. MIN ALT: OFIHO 3000, LEVMY 2800, WURNU/2.00 NM TO RW29 1720*

5. DIST TO THLD FROM OM:MM:IM:150 HAT:250 HAT: 0.70GS ANT:

6. MIN GP INCPT: 2800GP ALT AT FAF : LEVMY 2800OM:MM:IM:

7. GP ANGLE: 3.0034:1: IS CLEAR20:1: IS CLEARTCH: 41.9

8. MSA FROM: RW29 2900

PBN REQUIREMENTS NOTE:

RNP APCH.

NOTES:

CHART NOTE: BARO-VNAV AND VDP NA WHEN USING BOSCOBEL ALTIMETER SETTING.
CHART NOTE: FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17°C OR ABOVE 54°C.
CHART NOTE: USE OF LEEWARD FARM REQUIRES PERMISSION OF THE OWNER; USE OF THIS PROCEDURE REQUIRES SPECIFIC AUTHORIZATION BY FAA FLIGHT STANDARDS.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BOSCOBEL ALTIMETER SETTING AND INCREASE LPV DA TO 1397 FEET; INCREASE LNAV/VNAV DA TO 1442 FEET; INCREASE ALL MDA 100 FEET AND LNAV CAT C/D VISIBILITY 1/4 SM, CIRCLING CAT C VISIBILITY 1/2 SM, AND CIRCLING CAT D VISIBILITY 1/4 SM.

ADDITIONAL FLIGHT DATA:

CHART CIRCLING ICON
CHART VDP AT 1.34 NM TO RW29*
*LNAV ONLY
WAAS CHANNEL #53438
REFERENCE PATH ID: W29A
CHART FAS OBST: 1259 TREE 432027N/0903826W.
HOLD W, RT, 110.21 INBOUND
LTP HAE: 286.6 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	1315	1	250	1315	1	250	1315	1	250	1315	1	250			
LNAV/VNAV DA	1360	1	295	1360	1	295	1360	1	295	1360	1	295			
LNAV MDA	1520	1	455	1520	1	455	1520	1 3/8	455	1520	1 3/8	455			
CIRCLING	1600	1	532	1660	1	592	1920	2 1/2	852	1920	2 3/4	852			

QUALITY
44
CHECKED

CHANGES - REASONS

- 1. DELETED CHART NOTE: DME/DME RNP-0.3 NA AND ADDED PBN REQUIREMENTS NOTE "RNP APCH" - IAW 8260.19H 8-6-8 (B(1)) PBN NAVSPEC.
- 2. CHANGED CHART NOTE FROM "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C (2F) OR ABOVE 54C (130F)" TO "FOR UNCOMPENSATED BARO-VNAV SYSTEMS, LNAV/VNAV NA BELOW -17C OR ABOVE 54C" - UPDATED CRITERIA FORMAT ELIMINATES FAHRENHEIT VALUES.
- 3. DELETED INITIAL SEGMENT FROM LONE ROCK (LNR) VOR/DME - NAVAID TO BE DECOMMISSIONED.
- 4. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON LNR VORTAC AIRWAY RADIALS 286 CW 303 - NAVAID TO BE DECOMMISSIONED.
- 5. DELETED PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL AT QUEST ON V129 NORTHBOUND - V129 BEING CANCELLED.
- 6. ADDED 20:1 SURFACE STATUS OF "20:1 IS CLEAR" TO LINE 7 OF PROFILE SEGMENT - IAW 8260.19H 8-6-7.
- 7. ADDED MAXIMUM HOLDING ALTITUDE OF "6000" TO LINE 2 OF PROFILE SEGMENT - NEW REPORTS FORMAT INCLUDES MAXIMUM HOLDING ALTITUDES FOR H-I-L FIXES.
- 8. CHANGED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BOSCOBEL ALTIMETER SETTING AND INCREASE ALL DA 82 FEET AND INCREASE LPV VISIBILITY ALL CATS 1/8 MILE, LNAV/VNAV VISIBILITY ALL CATS 3/8 MILE, AND INCREASE ALL MDA 100 FEET AND INCREASE LNAV VISIBILITY CAT C/D 1/4 MILE, CIRCLING VISIBILITY CAT C 1/2 MILE, CAT D 1/4 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE BOSCOBEL ALTIMETER SETTING AND INCREASE LPV DA TO 1397 FEET; INCREASE LNAV/VNAV DA TO 1442 FEET; INCREASE ALL MDA 100 FEET AND LNAV CAT C/D VISIBILITY 1/4 SM, CIRCLING CAT C VISIBILITY 1/2 SM, AND CIRCLING CAT D VISIBILITY 1/4 SM." - NEW NOTE FORMAT INCORPORATED.

SUBMITTED BY

OFFICE

DATE

FLIGHT CHECKED BY

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

OFFICE

Digitally signed by

DATE

DAVID TEFFETELLER

Aug 05, 2019

DEVELOPED BY

Digitally signed by

JAMES LAFFERTY

JAMES LAFFERTY

Jul 24, 2019

OFFICE

AJV-A433

DATE

07/15/2019

RECOMMENDED BY

GEORGE E. DAVIS

Digitally signed by

DAVID TEFFETELLER

Aug 05, 2019

OFFICE

AJV-A430

DATE

TITLE

MANAGER

APPROVED BY

OFFICE

DATE

TITLE



FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	WS51
RUNWAY	RW29
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W29A
LTP/FTP LATITUDE	432103.0130N
LTP/FTP LONGITUDE	0904027.6300W
LTP/FTP ELLIPSOIDAL HEIGHT	+02866
FPAP LATITUDE	432134.0325N
FPAP LONGITUDE	0904222.1190W
THRESHOLD CROSSING HEIGHT (TCH)	00041.9
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.00
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	1600
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	50.0
CRC REMAINDER	F8103CB1

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K5
LTP ORTHOMETRIC HEIGHT	+03199
FPAP ORTHOMETRIC HEIGHT	+03199



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
LEEWARD FARM	WS51	RNAV (GPS) RWY 29	1A	SOLDIERS GROVE	WI	1068	RNAV

PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM QUEST TO OFIHO

<u>RNP</u>	<u>DISTANCE</u> 23.48	<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>
1.TOWER (55-000334)	431625.52N/0905719.05W		1581	250	125	4E	1000				AT419	3000
2.TERRAIN	431524.00N/0905836.00W		1313 (1300)								AS1500	2800

COMPUTATIONS

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

SEGMENT REMARKS:

INTERMEDIATE

FROM OFIHO (IF/IAF) TO LEVMY

<u>RNP</u>	<u>DISTANCE</u> 5.64	<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 (55-020016)	431855.41N/0902535.01W		1466	20	3	1A	500				AT834	2800
4.TERRAIN	431809.00N/0902815.00W		1208 (1200)								AS1500	2700

COMPUTATIONS

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

SEGMENT REMARKS:



FINAL: LPV

FROM

LEVMY

TO

RW29

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.36		DA		250							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC			XP50	1315

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

XP50 - NPI MARKINGS, MIN HAT 250

FINAL: LNAV/VNAV

FROM

LEVMY

TO

RW29

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.36		DA		295							
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TREE	432059.74N/0904034.74W		1164	50	20	2C	161				AC20	1360

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



AIRPORT

LEEWARD FARM

AIRPORT ID

WS51

PROCEDURE NAME

RNAV (GPS) RWY 29

AMDT NO.

1A

CITY

SOLDIERS GROVE

STATE

WI

AIRPORT ELEVATION

1068

FACILITY

RNAV

FINAL: LNAV

FROM

LEVMY

TO

WURNU/2.00 NM TO RW29

RNP

DISTANCE

PAT

MAP

HAT

HMAS

3.36

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
6.AAO	431906.91N/0903518.60W	1360	50	20	2C	250				RA82 DG28	1720

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

FINAL: LNAV STEPDOWN

FROM

WURNU/2.00 NM TO RW29

TO

RW29

RNP

DISTANCE

PAT

MAP

HAT

HMAS

2.00

RW29

455

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TREE	432026.85N/0903825.90W	1259	50	20	2C	250					1520

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY

44

CHECKED

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AIRPORT

LEEWARD FARM

AIRPORT ID

WS51

PROCEDURE NAME

RNAV (GPS) RWY 29

AMDT NO.

1A

CITY

SOLDIERS GROVE

STATE

WI

AIRPORT ELEVATION

1068

FACILITY

RNAV

HOLD-IN-LIEU OF PT

FROM

OFIHO

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
8.TOWER (55-001087)	432135.65N/0902132.29W	1517	500	125	5E	1000				AT483	3000
9.TERRAIN	432151.00N/0902845.00W	1234 (1200)								AS1500	2700

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

OMETY

RNP

DISTANCE

PAT

MAP

HAT

HMAS

1113

OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
							ASC				3000
10.AAO	432424.00N/0905700.00W	1503	164	98	4E	1000					2600
11.TERRAIN	432309.00N/0905554.00W	1280 (1300)								AS1500	2800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

QUALITY
44
CHECKED

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FACILITY
RNAV

AIRPORT

LEEWARD FARM

AIRPORT ID

WS51

PROCEDURE NAME

RNAV (GPS) RWY 29

AMDT NO.

1A

CITY

SOLDIERS GROVE

STATE

WI

AIRPORT ELEVATION

1068

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											
12.TREE	432222.10N/0904209.10W	1.30	532	1299	50	20	2C	300			1600
CATEGORY B											
13.TREE	432006.63N/0904229.68W	1.84	592	1359	50	20	2C	300			1660
CATEGORY C											
14.TOWER (55-000192)	431924.00N/0904219.00W	2.90	852	1480	250	125	4E	300		AC125	1920
CATEGORY D											
14.TOWER (55-000192)	431924.00N/0904219.00W	3.79	852	1480	250	125	4E	300		AC125	1920

CIRCLING REMARKS:

MSA

CENTER

RW29

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-360	WINDMILL (55-020924)	434420.63N/0904815.87W	346	24.0	1824	500	125	5E	1000			2900

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:

QUALITY
44
CHECKED

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PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZAU ARTCC, GREEN BAY FSS

<u>WX SERVICE</u> AWOS	<u>LOCATION</u> KWS51	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KWS51	<u>DISTANCE</u> 0	<u>SERVICE-A</u> N	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u> ASOS	<u>LOCATION</u> KOV5	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> KOV5	<u>DISTANCE</u> 11.52	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 82

WX REMARKS:
RASS PRESSURE PATTERNS THE SAME KSW51 1068, KOVS 673 RA = 81.9.

<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>
RW11 - HIRL (PCL), VASI-2L (PCL)			
RW29 - HIRL (PCL), PAPI-4L (PCL)			

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 1049.7	<u>TCH</u> 41.9	<u>ELEV GS ANTENNA</u>	<u>DISTANCE FROM RWY</u>	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 41.9
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FINAL APPROACH COURSE AIMING

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

CRITICAL TEMPERATURES

<u>CRITICAL LOW</u> -17C	<u>CRITICAL HIGH</u> +54C	<u>ACT</u> -17C	<u>APT ISA</u> +12.88C
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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 970 HIGH TEMP 1279.

"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
LEEWARD FARM	WS51	RNAV (GPS) RWY 29	1A	SOLDIERS GROVE	WI	1068	RNAV
<p>PART C: GENERAL REMARKS:</p> <p>PRECIPITOUS TERRAIN EVALUATION COMPLETED.</p> <p>VEGETATION ASSUMED 100 FT PER PREVIOUS AMDT.</p> <p>20:1 SURFACE CHECKED BY SURVEYOR AS CLEAR PER E-MAIL DATED 8/11/2015. PROCEDURE AUTHORIZED FOR NIGHT OPS.</p> <p>FULL LENGTH PARALLEL TAXIWAY NOT INSTALLED, MINIMUM VISIBILITY 1 SM.</p> <p>ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.</p>							



AIRPORT
LEEWARD FARM

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STATE
WI

AIRPORT ELEVATION
1068

FACILITY
RNAV

PART E: PREPARED BY

<u>NAME</u>	<u>OFFICE</u>	<u>DATE</u>	<u>TITLE</u>
JAMES LAFFERTY	AJV-A433	07/15/2019	AERONAUTICAL INFORMATION SPECIALIST

