

**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>	<u>AIRPORT ID</u>	<u>PROCEDURE NAME</u>	<u>ORIGINAL/AMENDMENT</u>	<u>CITY</u>	<u>STATE</u>	
TED STEVENS ANCHORAGE INTL	PANC	ILS RWY 15	7	ANCHORAGE	AK	
<u>AIRPORT ELEVATION</u>	<u>TDZE</u>	<u>SUPERSEDED</u>	<u>ORIGINAL/AMENDMENT</u>	<u>DATED</u>	<u>MAG VAR</u>	<u>EPOCH YEAR</u>
151	151	ILS RWY 15	6E	07/19/2018	16E	2020
<u>FACILITY</u>	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u>	<u>CANCEL/SUSPEND</u>		
I-BSC			10/10/2019			

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>
ELLAM/TED 22.00 DME CCW	IAF	PEPVE/TED 22.00 DME					22.00 DME ARC		6400
PEPVE/TED 22.00 DME CCW		YOHNN/I-BSC 21.79 DME/RADAR					22.00 DME ARC (TED LR-330)		3300
IVANN/TED 22.00 DME CW	IAF	YOHNN/I-BSC 21.79 DME/RADAR					22.00 DME ARC (TED LR-319)		3300
BGQ VORTAC	IAF	CARDD/I-BSC 13.21 DME/RADAR					181.39	12.27	3000
YOHNN/I-BSC 21.79 DME/RADAR	IAF	CARDD/I-BSC 13.21 DME/RADAR					148.87	8.58 (I-BSC)	3000
CARDD/I-BSC 13.21 DME/RADAR	IF	KANSY/I-BSC 6.16 DME/RADAR	PFAF				148.87	7.05 (I-BSC)	1600

MISSED APPROACH

MAP:
ILS: DA

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 200 AND TED VOR/DME R-210 TO JUKEP/TED 15.00 DME AND HOLD.
(TACAN AIRCRAFT CLIMB TO 800 THEN CLIMBING RIGHT TURN 3000 ON HEADING 200 AND ON EDF TACAN R-210 TO JUKEP/EDF 22.63 DME AND HOLD).

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 800 THEN CLIMBING RIGHT TURN 3000 ON HEADING 200 AND ON ENA VOR/DME R-028 TO JUKEP/ENA 34.18 DME AND HOLD.



PROFILE:

1. PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)

2. PROFILE STARTS AT CARDD

3. FAC: 148.87 PFAF: KANSY/I-BSC 6.16 DME/RADAR DIST PFAF TO MAP: DIST PFAF TO THLD:

4. MIN ALT: CARDD/I-BSC 13.21 DME/RADAR 3000, KANSY/I-BSC 6.16 DME/RADAR 1600

5. DIST TO THLD FROM OM: 4.09 MM: IM: 150 HAT: GS ANT: 1176

6. MIN GS INCPT: 1600 GS ALT AT PFAF : KANSY/I-BSC 6.16 DME/RADAR 1600 OM: MM: IM:

7. GP ANGLE: 3.20 34:1: 20:1: TCH: 60.0

8. MSA FROM: TED VOR/DME 021-181 8700, 181-276 1800, 276-021 5600

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

CHART NOTE: INOPERATIVE TABLE DOES NOT APPLY.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT BGQ VORTAC ON V438-456 NORTHBOUND AND T227 NORTHEAST BOUND.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART PROFILE NOTE: USE I-BSC DME WHEN ON THE LOCALIZER COURSE.

ADDITIONAL FLIGHT DATA:

CHART: R2203
CHART IN PLANVIEW: TACAN MA HOLDING, NE JUKEP/EDF 22.63 DME, RT, 209.63 INBOUND.
CHART IN PLANVIEW: JUKEP/EDF 22.63 DME.
CHART IN PLANVIEW: CARDD/BGQ 12.27 DME.
CHART TED R-037 AT ELLAM.
CHART TED R-012 AT PEPVE.
CHART TED R-288 AT IVANN.
CHART IN PLANVIEW: JUKEP/ENA 34.18 DME.
CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD NE JUKEP/ENA 34.18 DME, RT, 207.87 INBOUND.
HOLD NE, RT, 209.95 INBOUND

MINIMUMS:

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

ALTERNATE: NA ILS: STANDARD

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 15	351	4000	200	351	4000	200	401	4000	250	401	4000	250			



CHANGES - REASONS

- 1. DISTANCE FROM PFAF TO THLD AND DIST TO THLD FROM OM CHANGED FROM 4.1 TO 4.09 - PFAF MOVED.
- 2. CHANGED LINE 3 FAC FROM 148.88 TO 148.87 - PFAF MOVED.
- 3. TCH CHANGED FROM 58 TO 60 - DESIGN TCH UPDATED IN AIRNAV.
- 4. CHANGED LINE 5 GS ANT FROM 1249 TO 1176 - NEW GLIDESLOPE LOCATION.
- 5. CHANGED LINE 8 MSA FROM "TED VOR/DME 021-181 8900, 181-276 1800, 276-021 5600" TO "TED VOR/DME 021-181 8700, 181-276 1800, 276-021 5600" - NEW CONTROLLING OBSTACLES.
- 6. TERMINAL ROUTES: CHANGED INTERMEDIATE FROM "KANSY/I-BSC 6.15 DME/RADAR" TO "KANSY/I-BSC 6.16 DME/RADAR" - NEW PFAF LOCATION.
- 7. ADDED CHART IN PLANVIEW: CARDD/BGQ 12.27 DME - BGQ VDME IS OUT OF THE LOC SERVICE VOLUME. ADDED BGQ TO FIX MAKEUP TO HELP PILOTS TRANSITION TO THE LOC.
- 8. CHANGED ALTITUDE FROM ELLAM TO PEPVE FROM 6300 TO 6400 - NEW CONTROLLING OBSTACLE.
- 9. CHANGED ALTITUDE FROM IVANN TO YOHNN FROM 3100 TO 3300 - NEW CONTROLLING OBSTACLE.
- 10. CHANGED ALTITUDE FROM PEPVE TO YOHNN FROM 3100 TO 3300 - MAINTAIN NEW REQUIRED ALTITUDE AT YOHNN.
- 11. CHANGED MISSED APPROACH ALTITUDE FROM 2500 TO 3000 - ATC REQUEST.
- 12. ADDED ALTERNATE MISSED APPROACH PROCEDURE "CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 200 AND ENA VOR/DME R-028 TO JUKEP/ENA 34.18 DME AND HOLD." AND HOLD NE, RT, 207.87 INBOUND - ATC REQUEST.
- 13. ADDED TACAN MISSED APPROACH "TACAN AIRCRAFT CLIMB TO 800 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 200 AND EDF TACAN R-210 TO JUKEP/EDF 22.63 DME AND HOLD." AND HOLD NE, RT, 209.63 INBOUND - ATC REQUEST.
- 14. CHANGED CHART PLANVIEW NOTE FROM "PROCEDURE NA FOR ARRIVALS AT BGW VORTAC ON V438-456 NORTHBOUND" TO "PROCEDURE NA FOR ARRIVALS AT BGQ VORTAC ON V438-456 NORTHBOUND AND T227 NORTHEAST BOUND" - CORRECTED TO AVOID ALL TURNS GREATER THAN 120 DEGREES.
- 15. REMOVED CHART NOTE "RWY 15 HELICOPTER VISIBILITY REDUCTION BELOW RVR 4000 NOT AUTHORIZED" - NO 20:1 OR 34:1 PENETRATIONS EXIST.
- 16. CHANGED NOTE FROM "...VGS1 AND DESCENT ANGLES..." TO "...VGS1 AND ILS GLIDEPATH..." - IAW 8260.19H.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** AMGR, ZAN, ANC APCH CON, AK DOT, ANC ATCT

<u>FLIGHT CHECKED BY</u> PENDING	<i>Digitally signed by</i> DAVID DANNER Aug 09, 2019	<u>OFFICE</u>	<u>DATE</u>	
<u>DEVELOPED BY</u> DAVID DANNER (DALE SICKELS)	<i>Digitally signed by</i> DAVID DANNER Aug 09, 2019	<u>OFFICE</u> AJV-A421	<u>DATE</u> 04/04/2019	
<u>APPROVED BY</u> MARLON ROBINSON	<i>Digitally signed by</i> DAVID DANNER Aug 09, 2019	<u>OFFICE</u> AJV-A420	<u>DATE</u>	<u>TITLE</u> MANAGER



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

AIRPORT	AIRPORT ID	PROCEDURE NAME	AMDT NO.	CITY	STATE	AIRPORT ELEVATION	FACILITY
TED STEVENS ANCHORAGE INTL	PANC	ILS RWY 15	7	ANCHORAGE	AK	151	I-BSC

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL: ARC

FROM
ELLAM/TED 22.00 DME CCW

TO
PEPVE/TED 22.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<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.AAO	612200.00N/1491700.00W	5004	164	98	4E	1000				PR380	6400
2.TERRAIN	612200.00N/1492324.00W	4272 (4300)								AS1500	5800

COMPUTATIONS

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

INITIAL: ARC STEPDOWN

FROM
PEPVE/TED 22.00 DME CCW

TO
YOHNN/I-BSC 21.79 DME/RADAR

<u>RNP</u>	<u>DISTANCE</u>	<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.AAO	613139.00N/1493830.00W	650	164	98	4E	1000				AT1650	3300
4.TERRAIN	613233.00N/1493530.00W	460 (500)								AS1500	2000

COMPUTATIONS

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



AIRPORT TED STEVENS ANCHORAGE INTL	AIRPORT ID PANC	PROCEDURE NAME ILS RWY 15	AMDT NO. 7	CITY ANCHORAGE	STATE AK	AIRPORT ELEVATION 151	FACILITY I-BSC				
INITIAL: ARC											
FROM IVANN/TED 22.00 DME CW				TO YOHNN/I-BSC 21.79 DME/RADAR							
RNP	DISTANCE	PAT	MAP	HAT		HMAS					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	612648.92N/1504401.62W	3050	250	50	4D	1000				SA-995 PR220	3300
6.TERRAIN	612633.00N/1503624.00W	469 (500)								AS1500	2000

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

SEGMENT REMARKS:

INITIAL	
FROM BGQ VORTAC	TO CARDI/I-BSC 13.21 DME/RADAR

RNP	DISTANCE 12.27	PAT	MAP	HAT		HMAS					
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.TOWER (02-020195)	612554.13N/1495952.56W	721	20	3	1A	1000				AT1279	3000
8.TERRAIN	613127.00N/1495300.00W	419 (400)								AS1500	1900

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

SEGMENT REMARKS:



INITIAL

FROM

YOHNN/I-BSC 21.79 DME/RADAR

TO

CARDD/I-BSC 13.21 DME/RADAR

RNP	DISTANCE 8.58	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.AAO	612548.00N/1500006.00W		535	164	98	4E	1000				AT1465	3000
10.TERRAIN	612548.00N/1500006.00W		335 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM

CARDD/I-BSC 13.21 DME/RADAR

TO

KANSY/I-BSC 6.16 DME/RADAR

RNP	DISTANCE 7.05	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
11.AAO	612157.00N/1500024.00W		509	164	98	4E	500				DG493 AC98	1600
12.TERRAIN	612157.00N/1500024.00W		309 (300)								AS1000	1300

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: ILS

FROM

KANSY/I-BSC 6.16 DME/RADAR

TO

RW15

RNP	DISTANCE	PAT	MAP	HAT				HMAS				
	4.09		DA	250								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				351
								ASC				351
								ASC				401
								ASC				401

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

200FT HAT FOR THE ILS FINAL CATS A/B

MISSED APPROACH : ILS

FROM

DA

TO

JUKEP/TED 15.00 DME

RNP	DISTANCE	PAT	MAP	HAT				HMAS				
				177								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
13.WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
14.TERRAIN	610921.00N/1500230.00W		311 (300)								AS1500	1800

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

177 HMAS FOR CATS A/B.

205 HMAS FOR CATS C/D.

MISSED APPROACH TERMINATION FIX PER ATC REQUEST.



TACAN AIRCRAFT : ILS

FROM
DA

TO
JUKEP/EDF 22.63 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 177					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
13.WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
14.TERRAIN	610921.00N/1500230.00W		311 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

177 HMAS FOR CATS A/B.
205 HMAS FOR CATS C/D.
MISSED APPROACH TERMINATION FIX PER ATC REQUEST.

MISSED APPROACH ALTERNATE : ILS

FROM
DA

TO
JUKEP/ENA 34.18 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 177					
<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
13.WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
14.TERRAIN	610921.00N/1500230.00W		311 (300)								AS1500	1800

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

177 HMAS FOR CATS A/B.
205 HMAS FOR CATS C/D.
MISSED APPROACH TERMINATION FIX PER ATC REQUEST.

CIRCLING

☐ ALL CATS

☐ CAT A

☐ CAT B

☐ CAT C

☐ CAT D

☐ CAT E

☒ NOT AUTHORIZED



MSA

CENTER

TED VOR/DME

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
021-181	AAO	611427.00N/1490206.00W	062	27.2	7684	164	98	4E	1000			8700
181-276	AAO	612357.00N/1504648.00W	283	27.5	709	164	98	4E	1000			1800
276-021	AAO	612821.00N/1504412.00W	292	28.9	4531	164	98	4E	1000			5600

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS

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

PART C: GENERAL REMARKS:
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
80 FT VEGETATION USED PER FPT.



<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> ILS RWY 15	<u>AMDT NO.</u> 7	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> I-BSC
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PART D: AIRSPACE

DOCKET # NOT REQUIRED

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	2.91
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.85
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	164.87
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	8.74
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	164.87
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	300
THRESHOLD COORDINATES (IF STR-IN)	611159.03N/1500052.31W		
ARP COORDINATES	611026.71N/1495953.30W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 15 DISTANCE 1.61 NM		
FAF COORDINATES	611555.11N/1500304.89W		
FIX NAME COORDINATES	IF CARDD: 612241.93N/1500654.71W		
REMARKS			

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

Electronic Version

Page 9 of 10

QUALITY
24
CHECKED

<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> ILS RWY 15	<u>AMDT NO.</u> 7	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> I-BSC
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PART E: PREPARED BY

<u>NAME</u> DAVID DANNER (DALE SICKELS)	<u>OFFICE</u> AJV-A421	<u>DATE</u> 04/04/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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