

**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 ID</u> KORF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 23	<u>ORIGINAL/AMENDMENT</u> 8A	<u>CITY</u> NORFOLK	<u>STATE</u> VA		
<u>AIRPORT ELEVATION</u> 27	<u>TDZE</u> 26	<u>SUPERSEDED</u> ILS OR LOC RWY 23	<u>ORIGINAL/AMENDMENT</u> 8	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 9W	<u>EPOCH YEAR</u> 1985
<u>FACILITY</u> I-JZQ	<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>
ORF VORTAC		JHALL INT/I-JZQ 10.67 DME					044.40	11.79	2000
HCM VORTAC	IAF	JHALL INT/I-JZQ 10.67 DME	NOPT				134.00	39.70 (ORF LR-034)	2000
CCV VORTAC	IAF	JHALL INT/I-JZQ 10.67 DME	NOPT				198.16	18.13	2000
JHALL INT/I-JZQ 10.67 DME	IF/IAF	LUFSY/I-JZQ 4.64 DME/RADAR					226.80	6.03 (I-JZQ)	1600

MISSED APPROACH

MAP:

ILS: DA
LOC: 4.80 NM AFTER LUFSY/I-JZQ 4.64 DME/RADAR OR AT I-JZQ 0.16 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 2000 ON ORF VORTAC R-225 TO CALEY/ORF 11.51 DME/RADAR AND HOLD.

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 500 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 335 AND ON HCM VORTAC R-155 TO HCM VORTAC AND HOLD SE, RT, 335.00 INBOUND.

PROFILE:

- PT SIDE OF COURSE OUTBOUND FT WITHIN MILES OF (IAF)
- HOLD NE JHALL, LT, 226.80 INBOUND, 2000 FT. IN LIEU OF PT (IAF), MAX 4000.
3. FAF: 226.80 FAF: LUFSY/I-JZQ 4.64 DME/RADAR DIST FAF TO MAP: 4.80 DIST FAF TO THLD: 4.80
4. MIN ALT: JHALL INT/I-JZQ 10.67 DME 2000, LUFSY/I-JZQ 4.64 DME/RADAR 1600
5. DIST TO THLD FROM OM: MM: IM: 150 HAT: GS ANT: 1009
6. MIN GS INCPT: 1600 GS ALT AT FAF: LUFSY/I-JZQ 4.64 DME/RADAR 1600 OM: MM: IM:
7. GP ANGLE: 3.00 34:1: 20:1: TCH: 55.0
8. MSA FROM: ORF VORTAC 360-090 1800, 090-360 2300

QUALITY
42
CHECKED

EQUIPMENT REQUIREMENTS NOTES:

DME OR RADAR REQUIRED.

NOTES:

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CCV VORTAC ON V1 AND V139 NORTHBOUND.

ADDITIONAL FLIGHT DATA:

CHART IN PROFILE VIEW: I-JZQ DME ANTENNA

HOLD SW, RT, 045.20 INBOUND.

CHART IN PLANVIEW: ALTERNATE MA HOLDING, HOLD SE HCM VORTAC, RT, 335.00 INBOUND.

FAS OBST: 200 SHIP 365737N/0760820W.

CHART VDP AT 1.06 DME*

DISTANCE VDP TO THLD 1.22 NM.

*LOC ONLY.

CHART IN PLANVIEW: HCM VORTAC.

CHART CIRCLING ICON.

MINIMUMS:

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

ALTERNATE: NA ☐ ILS: STANDARD; LOC: STANDARD - CAT D 900-2 3/4

<u>CATEGORY:</u>	<u>A</u>			<u>B</u>			<u>C</u>			<u>D</u>			<u>E</u>		
<u>FINAL TYPE</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>	<u>DA/MDA</u>	<u>VIS</u>	<u>HAT/HAA</u>
S-ILS 23	226	1/2	200	226	1/2	200	226	1/2	200	226	1/2	200			
S-LOC 23	460	1/2	434	460	1/2	434	460	3/4	434	460	3/4	434			
CIRCLING	480	1	453	540	1	513	540	1 1/2	513	900	2 3/4	873			

CHANGES - REASONS

1. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CCV VORTAC ON V1 AND V139 NORTHBOUND - 8260.19H, PARA 8-2-5G(2)
2. REMOVED "CHART PLANVIEW NOTE: DME OR RADAR REQUIRED." FROM ADDITIONAL FLIGHT DATA AND ADDED DME OR RADAR TO EQUIPMENT REQUIRMENTS NOTES - 19H 8-6-8, 3,B.
3. ADDED 4000 MAX HOLD IN LIEU ALTITUDE TO PROFILE LINE 2 - 8260.19H, PARA 8-6-7B(2) REQUIRES ADDITION OF MAX HOLD IN LIEU ALTITUDE.
4. REMOVED ILS ENTRY "900-2 3/4" FROM ALTERNATE MINIMUMS- PER 8260.3D, PARA 3-4-1 AND TABLE 3-4-1, S-ILS 23 CEILING AND VISIBILITY DO NOT EXCEED STANDARD PA ALTERNATE MINIMUMS.
5. INCREASED CIRCLING HAA ALL CATS BY 1 FT - AIRPORT ELEVATION CHANGED FROM 27 TO 26.

COORDINATED WITH:

A4A ☒ **ALPA** ☒ **AOPA** ☒ **APA** ☒ **HAI** ☐ **NBAA** ☒ **OTHER:** ZDC, ORF ATCT, ORF APP CON, ARPT MGR

FLIGHT CHECKED BY

PROCESSED IAW AIRCRAFT OPERATIONS GROUP (AJF-10) MEMO, APRIL 29, 2020, SUBJECT: FLIGHT INSPECTION REVIEW NOT REQUIRED

Digitally signed by

OFFICE

DATE

JON DENTON

Digitally signed by

Nov 24, 2020

JON DENTON

OFFICE

DATE

DEVELOPED BY

WARDELL HENNING (JANTZEN TAYLOR)

AJV-A432

09/30/2020

Digitally signed by

Nov 24, 2020

JON DENTON

OFFICE

DATE

APPROVED BY

LONNIE EVERHART

Nov 24, 2020

AJV-A430

TITLE
MANAGER

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

<u>AIRPORT ID</u> KORF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 23	<u>AMDT NO.</u> 8A	<u>CITY</u> NORFOLK	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 27	<u>FACILITY</u> I-JZQ
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PART A: OBSTRUCTION DATA SEGMENTS

FEEDER

FROM
ORF VORTAC

TO
JHALL INT/I-JZQ 10.67 DME

<u>RNP</u>	<u>DISTANCE</u> 11.79	<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.TWR (51-000560)	365549.46N/0761217.60W		228	20	3	1A	1000				AT772	2000
2.TERRAIN	365642.00N/0761427.00W		33 (0)								AS1500	1500

COMPUTATIONS

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

SEGMENT REMARKS:

INITIAL

FROM
HCM VORTAC

TO
JHALL INT/I-JZQ 10.67 DME

<u>RNP</u>	<u>DISTANCE</u> 39.70	<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.TWR (51-000651)	371709.00N/0763049.00W		539	50	20	2C	1000				AT461	2000
4.TERRAIN	372854.00N/0764006.00W		125 (100)								AS1500	1600

COMPUTATIONS

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

SEGMENT REMARKS:



INITIAL

FROM
CCV VORTAC

TO
JHALL INT/I-JZQ 10.67 DME

RNP	DISTANCE 18.13	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.TWR (51-001347)	371545.00N/0760044.00W		757	500	50	5D	1000				AT243	2000
6.TERRAIN	371048.00N/0755927.00W		60 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

INTERMEDIATE

FROM
JHALL INT/I-JZQ 10.67 DME (IF/IAF)

TO
LUFSY/I-JZQ 4.64 DME/RADAR

RNP	DISTANCE 6.03	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
7.SHIP	370300.00N/0760500.00W		200	50	20	2C	500				AT900	1600
8.TERRAIN	370300.00N/0760500.00W		0 (0)								AS1500	1500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



FINAL: ILS

FROM

LUFSY/I-JZQ 4.64 DME/RADAR

TO

RW23

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.80		DA	200								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				226

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: LOC

FROM

LUFSY/I-JZQ 4.64 DME/RADAR

TO

4.80 NM AFTER LUFSY/I-JZQ 4.64 DME/RADAR OR AT I-JZQ 0.16 DME

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.80		4.80 NM AFTER LUFSY/I-JZQ 4.64 DME/RADAR OR AT I-JZQ 0.16 DME	434								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
9.SHIP	365736.72N/0760820.45W		200	50	20	2C	250					460

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

JHALL

TO

P-5

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
P-5												
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
10.TWR (51-001700)	371054.00N/0755746.00W	527	500	50	5D	1000				AT473	2000	
6.TERRAIN	371048.00N/0755927.00W	60 (100)								AS1500	1600	

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 : ILS

FROM

DA

TO

CALEY/ORF 11.51 DME/RADAR

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
					48							
OBSTRUCTION	COORDINATES	ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT	
							ASC				2000	
11.TWR (51-000431)	365006.00N/0761610.00W	556	50	3	2A	1000					1600	
12.TERRAIN	364854.00N/0761500.00W	23 (0)								AS1500	1500	

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 : LOC

FROM
4.80 NM AFTER LUFSY/I-JZQ 4.64 DME/RADAR OR AT I-JZQ 0.16 DME

TO
CALEY/ORF 11.51 DME/RADAR

RNP	DISTANCE	PAT	MAP	HAT			HMAS 10					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				2000
11.TWR (51-000431)	365006.00N/0761610.00W		556	50	3	2A	1000					1600
12.TERRAIN	364854.00N/0761500.00W		23 (0)								AS1500	1500

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 ALTERNATE : ILS

FROM
DA

TO
HCM VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 48					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
13.TOWER (51-000309)	371234.00N/0763234.00W		568	500	50	5D	1000					1600
14.TERRAIN	371311.49N/0763234.58W		66 (100)								AS1500	1600

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 ALTERNATE : LOC

FROM
4.80 NM AFTER LUFSY/I-JZQ 4.64 DME/RADAR OR AT I-JZQ 0.16 DME

TO
HCM VORTAC

RNP	DISTANCE	PAT	MAP	HAT			HMAS 10					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
13.TOWER (51-000309)	371234.00N/0763234.00W		568	500	50	5D	1000					1600
14.TERRAIN	371311.49N/0763234.58W		66 (100)								AS1500	1600

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

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											
15.TOWER (51-020396)	365332.86N/0761351.99W	1.30	453	173	20	3	1A	300			480
CATEGORY B											
1.TOWER (51-000560)	365549.46N/0761217.60W	1.81	513	228	20	3	1A	300			540
CATEGORY C											
1.TOWER (51-000560)	365549.46N/0761217.60W	2.84	513	228	20	3	1A	300			540
CATEGORY D											
16.TOWER (51-000368)	364945.00N/0761225.00W	3.70	873	538	500	50	5D	300		AC50	900

CIRCLING REMARKS:



MSA

CENTER

ORF VORTAC

RADIUS

25

SECTOR	OBSTRUCTION	COORDINATES	BEARING	DISTANCE	ELEV MSL	HORZ	VERT	AC	ROC	OCS	ADJUSTMENTS	MIN ALT
360-090	TWR (51-001347)	371545.00N/0760044.00W	029	23.9	756	500	50	5D	1000			1800
090-360	TWR (51-001802)	364831.78N/0763011.30W	258	15.4	1282	20	3	1A	1000			2300

MSA REMARKS:

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ORF APP CON, ORF TOWER

WX SERVICE ASOS	LOCATION KORF	HRS OPERATION 24	ALTIMETER SOURCE KORF	DISTANCE 0	SERVICE-A Y	ADJUSTMENTS 0
BACK-UP WX SERVICE	LOCATION	HRS OPERATION	ALTIMETER SOURCE	DISTANCE	SERVICE-A	ADJUSTMENTS

WX REMARKS:
ALTERNATE ALTIMETER SOURCE NOT IDENTIFIED DUE TO REDUNDANT AVAILABLE WEATHER SOURCES.

PRIMARY NAVAID I-JZQ	MONITOR POINT KORF ATCT	HRS OPERATION 24	CAT 1
APPROACH AND RUNWAY LIGHTING SYSTEM		RUNWAY MARKINGS	RUNWAY VISUAL RANGE
RW14 - MIRL, REIL, PAPI-2L		NPI-G	
RW32 - MIRL, REIL, PAPI-2L		NPI-G	
RW05 - MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	APPROACH
RW23 - MALSR, HIRL, C/LINE, PAPI-4L		PIR-G	ROLL OUT

GLIDESLOPE ANGLE 3.00	ELEV RWY THRESHOLD 15	TCH 55.0	ELEV GS ANTENNA 11.5	DISTANCE FROM RWY 1009	VGSI ANGLE 3.00	TCH 55.0
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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

CRITICAL LOW	CRITICAL HIGH	ACT	APT ISA
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CRITICAL TEMPERATURE REMARKS:

"VISUAL PORTION OF FINAL" PENETRATIONS

HELICOPTER 'VISUAL PORTION OF FINAL' PENETRATIONS



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

PENETRATIONS REMARKS:

PART C: GENERAL REMARKS:
AVERAGE VEGETATION HEIGHT 100 FT PER FPT
DME SUPPORTS BOTH JZQ ILS AND ORF ILS.
PRECIPITOUS TERRAIN EVALUATION COMPLETED.
ORDER 8260.3, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT ID</u> KORF	<u>PROCEDURE NAME</u> ILS OR LOC RWY 23	<u>AMDT NO.</u> 8A	<u>CITY</u> NORFOLK	<u>STATE</u> VA	<u>AIRPORT ELEVATION</u> 27	<u>FACILITY</u> I-JZQ
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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	2.80
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	1.20
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	217.80
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	0
DISTANCE FROM	THLD	TO 1500FT POINT	4.60
WIDTH OF	FINAL	SEGMENT AT 1500FT POINT	1.67
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1500FT POINT	217.80
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1500FT POINT	0

THRESHOLD
COORDINATES
(IF STR-IN)

365419.44N/0761121.96W

ARP COORDINATES

365340.58N/0761204.43W

RUNWAY APCH END
AND DIST FURTHEST
FROM ARP

RUNWAY 23 DISTANCE 0.86 NM

FAF
COORDINATES

365807.38N/0760741.56W

FIX NAME
COORDINATES

REMARKS

NO ADDITIONAL AIRSPACE REQUIRED

QUALITY
42
CHECKED

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

Electronic Version

Page 10 of 11

PART E: PREPARED BY

<u>NAME</u> WARDELL HENNING (JANTZEN TAYLOR)	<u>OFFICE</u> AJV-A432	<u>DATE</u> 09/30/2020	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST
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