

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> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> ILS OR LOC RWY 7L ILS RWY 7L (SA CAT I), ILS RWY 7L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 4	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK
<u>AIRPORT ELEVATION</u> 151	<u>TDZE</u> 128	<u>SUPERSEDED</u> ILS OR LOC RWY 7L ILS RWY 7L (SA CAT I), ILS RWY 7L (SA CAT II)	<u>ORIGINAL/AMENDMENT</u> 3C	<u>DATED</u> 02/01/2018	<u>MAG VAR</u> 16E
<u>FACILITY</u> I-TGN	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u>	<u>REQUIRED EFFECTIVE DATE</u> 10/10/2019	<u>CANCEL/SUSPEND</u>	<u>EPOCH YEAR</u> 2020

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>
ENA VOR/DME	IAF	AINKK/I-TGN 16.83 DME	NOPT				011.38	38.72 (TED LR-246)	2000
AINKK/I-TGN 16.83 DME	IF	WUGSI/I-TGN 11.97 DME					073.88	4.86 (I-TGN)	1600
WUGSI/I-TGN 11.97 DME		WEBBI/I-TGN 6.37 DME					073.88	5.60 (I-TGN)	1600

MISSED APPROACH

MAP:
 ILS: DA
 LOC: I-TGN 1.92 DME

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND TED VOR/DME R-210 TO JUKEP/TED 15.00 DME AND HOLD.
 (TACAN AIRCRAFT CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND EDF TACAN R-210 TO JUKEP/EDF 22.63 DME AND HOLD).

ALTERNATE MISSED APPROACH INSTRUCTIONS (DO NOT CHART):

CLIMB TO 600 THEN CLIMBING RIGHT TURN TO 3000 ON HEADING 230 AND ENA VOR/DME COURSE 028 TO JUKEP/ENA 34.18 DME AND HOLD.

PROFILE:

- PT **SIDE OF COURSE** **OUTBOUND** **FT WITHIN** **MILES OF (IAF)**
- PROFILE STARTS AT AINKK
- 3. FAC:** 073.88 **FAF:** WEBBI/I-TGN 6.37 DME **DIST FAF TO MAP:** **DIST FAF TO THLD:** 4.46
- 4. MIN ALT:** AINKK/I-TGN 16.83 DME 2000, WUGSI/I-TGN 11.97 DME AT OR BELOW 3000 AND AT OR ABOVE 1600, WEBBI/I-TGN 6.37 DME 1600
- 5. DIST TO THLD FROM OM:** **MM:** **IM:** **100 HAT:** 893 **150 HAT:** 1847 **GS ANT:** 1000
- 6. MIN GS INCPT:** 1600 **GS ALT AT FAF :** WEBBI/I-TGN 6.37 DME 1600 **OM:** **MM:** **IM:**
- 7. GP ANGLE:** 3.00 **34:1:** **20:1:** **TCH:** 53.5
- 8. MSA FROM:** TED VOR/DME 021-181 8900, 181-276 1800, 276-021 5600

QUALITY
21
CHECKED

EQUIPMENT REQUIREMENTS NOTES:

DME REQUIRED.

NOTES:

SA CAT I ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 7L: CAT A, B, C, D RA 158, RVR 1400, HAT 150, DA 278 MSL.
SA CAT II ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION REQUIRED; S-ILS 7L: CAT A, B, C, D RA 108, RVR 1200, HAT 100, DA 228 MSL.
CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ENA VOR/DME AIRWAY RADIALS 028 CW 048.
CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
SA CAT I CHART NOTE: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF HUD TO DH.
SA CAT II CHART NOTE: REDUCED LIGHTING: REQUIRES SPECIFIC OPSPEC, MSPEC, OR LOA APPROVAL AND USE OF AUTOLAND OR HUD TO TOUCHDOWN.
CHART NOTE: FOR INOPERATIVE ALS, INCREASE S-ILS 7L CAT E VISIBILITY TO RVR 4000, S-LOC 7L CATS C, D AND E VISIBILITY TO RVR 5500.

ADDITIONAL FLIGHT DATA:

394 AAO 610945N/1501042W
CHART CIRCLING ICON.
CHART IN PLANVIEW: JUKEP/ENA 34.18 DME
CHART AT OR BELOW 3000 AND AT OR ABOVE 1600 AT WUGSI.
CHART VDP AT 2.76 DME*
DISTANCE VDP TO THLD 0.85 NM
* LOC ONLY
CHART FAS OBST: 196 TREE 610956N/1500304W.
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; LOC: STANDARD - CAT D 800-2 1/2, CAT E 800-2 3/4, 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
S-ILS 07L	328	1800	200	328	1800	200	328	1800	200	328	1800	200	328	1800	200
S-LOC 07L	500	2400	372	500	2400	372	500	3500	372	500	3500	372	500	3500	372
CIRCLING	700	1	549	700	1	549	800	1 3/4	649	920	2 1/2	769	920	2 3/4	769



CHANGES - REASONS

- 1. ADDED BLOCK ALTITUDE (BETWEEN 1600 FT AND 3000 FT) IN INTERMEDIATE SEGMENT - ATC REQUEST TO MITIGATE WAKE TURBULENCE ISSUES.
- 2. ADDED “AINKK 2000” AND “WUGSI AT OR BELOW 3000 AND AT OR ABOVE 1600” TO THE PRINTED MINIMUM ALTITUDES IN THE PROFILE - IAW 8260.19H.
- 3. ADDED INTERMEDIATE STEPDOWN FIX WUGSI - FIX REQUESTED BY ATC TO FACILITATE ADDITION OF BLOCK ALTITUDE.
- 4. REMOVED PROCEDURE TURN - FPT APPROVED REMOVAL TO MAINTAIN PREFERRED LOCATION OF INTERMEDIATE STEP DOWN FIX.
- 5. REMOVED FEEDER ROUTE - ATC REQUESTED REMOVAL OF PROCEDURE TURN AND PRECEDING SEGMENT.
- 6. ADDED TACAN MISSED APPROACH - ATC REQUEST.
- 7. ADDED ALTERNATE MISSED APPROACH - ATC REQUEST.
- 8. CHANGED MISSED APPROACH HOLDING ALTITUDE AT JUKEP FROM 2500 TO 3000 - ATC REQUEST.
- 9. CHANGED LOC CATS C/D/E VISIBILITY FROM 2400 TO 3500 - APPLIED NEW INOP TABLE.
- 10. MOVED "CHART NOTE: DME REQUIRED" TO EQUIPMENT REQUIREMENT NOTES - IAW 8260.19H.
- 11. DELETED CHART PROFILE NOTE: PROCEDURE TURN NA FOR CAT E AIRCRAFT - PROCEDURE TURN REMOVED.
- 12. CIRCLING CAT C CMDA/VIS/HAA CHANGED FROM 700/1 1/2/549 TO 800/1 3/4/649 AND CAT D CMDA/VIS/HAA CHANGED FROM 800/2/649 TO 920/2 1/2/769 - NEW CONTROLLING OBSTACLES, APPLIED EXPANDED CIRCLING CRITERIA.
- 13. ADDED PROFILE STARTS AT AINKK - IAW 8260.19H.
- 14. ADDED “NA WHEN LOCAL WEATHER NOT AVAILABLE” NOTE - IAW 8260.19H.
- 15. ADDED CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVAL ON ENA VOR/DME AIRWAY RADIALS 028 CW 048 - RESTRICTED TO PROHIBIT TURNS OF MORE THAN 120 DEGREES IAW 8260.3D.
- 16. ADDED NOTE CHART PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}) - INCORPORATED FDC 9/0903.
- 17. CHART CIRCLING ICON - APPLIED EXPANDED CIRCLING.

COORDINATED WITH:

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

FLIGHT CHECKED BY	<i>Digitally signed by</i>	OFFICE	DATE	
PENDING	DAVID DANNER			
	Aug 15, 2019			
DEVELOPED BY	<i>Digitally signed by</i>	OFFICE	DATE	
DAVID DANNER (TAYLOR GIBSON)	DAVID DANNER	AJV-A421	06/03/2019	
APPROVED BY	Aug 15, 2019	OFFICE	DATE	TITLE
MARLON ROBINSON		AJV-A420		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 OR LOC RWY 7L ILS RWY 7L (SA CAT I), ILS RWY 7L (SA CAT II)	4	ANCHORAGE	AK	151	I-TGN

PART A: OBSTRUCTION DATA SEGMENTS

INITIAL

FROM
ENA VOR/DME

TO
AINKK/I-TGN 16.83 DME

<u>RNP</u>	<u>DISTANCE</u> 38.72	<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	604757.00N/1504936.00W		568	164	98	4E	1000				AT432	2000
2.TERRAIN	604757.00N/1504936.00W		368 (400)								AS1500	1900

COMPUTATIONS

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

INTERMEDIATE

FROM
AINKK/I-TGN 16.83 DME

TO
WUGSI/I-TGN 11.97 DME

<u>RNP</u>	<u>DISTANCE</u> 4.86	<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.SHIP	611403.00N/1503224.00W		200	164	98	4E	500				AC98 AT802	1600
6.TERRAIN	611403.00N/1503224.00W		0 (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:



INTERMEDIATE: STEPDOWN

FROM

WUGSII-I-TGN 11.97 DME

TO

WEBBI/I-TGN 6.37 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	5.60											
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
5.AAO	610927.00N/1501342.00W		430	164	98	4E	500				AC98 AT572	1600
6.TERRAIN	610927.00N/1501342.00W		230 (200)								AS1000	1200

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: ILS

FROM

WEBBI/I-TGN 6.37 DME

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
	4.46		DA									
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				328

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: ILS SA CAT I

FROM

WEBBI/I-TGN 6.37 DME

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.46		DA	150								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				278

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: ILS SA CAT II

FROM

WEBBI/I-TGN 6.37 DME

TO

RW07L

RNP	DISTANCE	PAT	MAP	HAT	HMAS							
	4.46		DA	100								
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				228

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

WEBBI/I-TGN 6.37 DME

TO

I-TGN 1.92 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u>					
	4.46		I-TGN 1.92 DME			372						
<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 (02-035282)	610956.49N/1500303.63W		196	20	3	1A	250				MA54	500

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : ILS

FROM

DA

TO

JUKEP/TED 15.00 DME

<u>RNP</u>	<u>DISTANCE</u>	<u>PAT</u>	<u>MAP</u>	<u>HAT</u>			<u>HMAS</u> 161					
<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
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : ILS SA CAT I

FROM

DA

TO

JUKEP/TED 15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH : ILS SA CAT II

FROM

DA

TO

JUKEP/TED 15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH : LOC

FROM

I-TGN 1.92 DME

TO

JUKEP/TED 15.00 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.WATER_TOWER (02-195400)	610923.50N/1500224.40W		393	50	20	2C		ASC				3000
11. WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
12.TERRAIN	610706.00N/1494942.00W		358 (400)								AS1500	1900

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

TACAN AIRCRAFT : ILS

FROM

DA

TO

JUKEP/EDF 22.63 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 161					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

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



TACAN AIRCRAFT : ILS SA CAT I

FROM

DA

TO

JUKEP/EDF 22.63 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

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

TACAN AIRCRAFT : ILS SA CAT II

FROM

DA

TO

JUKEP/EDF 22.63 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

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



TACAN AIRCRAFT : LOC

FROM

I-TGN 1.92 DME

TO

JUKEP/EDF 22.63 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.WATER_TOWER (02-195400)	610923.50N/1500224.40W		393	50	20	2C		ASC				3000
11. WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
12.TERRAIN	610706.00N/1494942.00W		358 (400)								AS1500	1900

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

JUKEP/ENA 34.18 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS 161					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

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 SA CAT I

FROM

DA

TO

JUKEP/ENA 34.18 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:

MISSED APPROACH ALTERNATE : ILS SA CAT II

FROM

DA

TO

JUKEP/ENA 34.18 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
								ASC				3000
8.AAO	610618.00N/1494706.00W		916	164	98	4E	1000					2000
9.TERRAIN	610618.00N/1494706.00W		716 (700)								AS1500	2200

COMPUTATIONS

ALT

KIAS

KTAS

HAA

VKTW

TR

BA

DTA

COURSE CHANGE

DVEB

VEB OCS

RF CENTER FIX/DISTANCE

SEGMENT REMARKS:



MISSED APPROACH ALTERNATE : LOC

FROM
I-TGN 1.92 DME

TO
JUKEP/ENA 34.18 DME

RNP	DISTANCE	PAT	MAP	HAT			HMAS					
OBSTRUCTION	COORDINATES		ELEV MSL	HORZ	VERT	AC	ROC	OCS	CG	CGTA	ADJUSTMENTS	MIN ALT
10.WATER_TOWER (02-195400)	610923.50N/1500224.40W		393	50	20	2C		ASC				3000
11. WINDMILL (02-020275)	610744.47N/1501334.55W		599	250	50	4D	1000					1600
12.TERRAIN	610706.00N/1494942.00W		358 (400)								AS1500	1900

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											
13.NAVAID (02-020897)	610923.45N/1500224.34W	1.30	549	397	20	10	1B	300			700
CATEGORY B											
13.NAVAID (02-020897)	610923.45N/1500224.34W	1.81	549	397	20	10	1B	300			700
CATEGORY C											
14.TOWER (02-000020)	611131.47N/1495408.48W	2.84	649	495	20	3	1A	300			800
CATEGORY D											
15.TOWER (02-000076)	610956.08N/1494943.14W	3.71	769	557	50	50	2D	300		AC50	920
CATEGORY E											
15.TOWER (02-000076)	610956.08N/1494943.14W	4.64	769	557	50	50	2D	300		AC50	920

CIRCLING REMARKS:

IAPA IDENTIFIED CAT B OBSTACLE AS TOWER (02-020476). TARGETS IDENTIFIES CAT A OBSTACLE (NAVAID (02-020897) AS THE CONTROLLER FOR BOTH CAT A AND CAT B. THE NAVAID HAS A LOWER ACCURACY CODE (1B) SO THAT OBSTACLE WAS CHOSEN AS THE CONTROLLER.



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	064	27.2	7684	164	98	4E	1000		XP216	8900
181-276	AAO	612357.00N/1504648.00W	285	27.5	709	164	98	4E	1000			1800
276-021	AAO	612821.00N/1504412.00W	294	28.9	4531	164	98	4E	1000			5600

MSA REMARKS:
XP 216 = RETAIN EXISTING MSA.

NOTES/EXPLANATIONS FROM PROCEDURE SEGMENTS:
80' VEGETATION USED PER FPT.



PART B: SUPPLEMENTAL DATA

COMMUNICATIONS WITH
ZAN ARTCC, ANC APP CON, ANC TOWER

<u>WX SERVICE</u> ASOS	<u>LOCATION</u> PANC	<u>HRS OPERATION</u> 24	<u>ALTIMETER SOURCE</u> PANC	<u>DISTANCE</u> 0	<u>SERVICE-A</u> Y	<u>ADJUSTMENTS</u> 0
<u>BACK-UP WX SERVICE</u>	<u>LOCATION</u>	<u>HRS OPERATION</u>	<u>ALTIMETER SOURCE</u>	<u>DISTANCE</u>	<u>SERVICE-A</u>	<u>ADJUSTMENTS</u>

WX REMARKS:
BACKUP ALTIMETER NOT PUBLISHED, REDUNDANT WEATHER SOURCES AVAILABLE.

<u>PRIMARY NAVAID</u> I-TGN	<u>MONITOR POINT</u>	<u>HRS OPERATION</u>	<u>CAT</u>
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<u>APPROACH AND RUNWAY LIGHTING SYSTEM</u>	<u>RUNWAY MARKINGS</u>	<u>RUNWAY VISUAL RANGE</u>
RW07L - TDZ, MALSR, HIRL, C/LINE, PAPI-4R	PIR-G	APPROACH
RW07R - TDZ, ALSF-2, HIRL, C/LINE, TAXI WAY, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW15 - HIRL, C/LINE, ODALS, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW25L - HIRL, C/LINE, PAPI-4L	PIR-G	APPROACH, MIDPOINT, ROLL OUT
RW25R - HIRL, C/LINE, PAPI-4L	PIR-G	ROLL OUT
RW33 - HIRL, REIL, C/LINE, PAPI-4R	PIR-G	APPROACH, MIDPOINT, ROLL OUT

<u>GLIDESLOPE ANGLE</u> 3.00	<u>ELEV RWY THRESHOLD</u> 127.6	<u>TCH</u> 53.5	<u>ELEV GS ANTENNA</u> 122.8	<u>DISTANCE FROM RWY</u> 1000	<u>VGSI ANGLE</u> 3.00	<u>TCH</u> 63.1
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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	CIRCLING RWY 33
20:1	
124 NAVAID (02-020544) 611017.26N/1495959.42W (0.32)	
Final Type	ILS, LOC
20:1	
131 NAVAID (02-020574) 611011.13N/1500034.24W (3)	
Final Type	ILS, LOC
34:1	
145 POLE (02-020580) 611008.43N/1500045.27W (1.24)	

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.
VISUAL AREA PENETRATIONS FIXED BY FUNCTION PER FPT: 124 NAVAID (02-020544), 131 NAVAID (02-020574), AND 145 POLE (02-020580).
ORDER 8260.3 CHAPTER 2 APPLIED TO 394 AAO 610945.00N/1501042.00W.
ORDER 8260.3, VOLUME 1, CHAPTER 2, NEW CIRCLING CRITERIA APPLIED.



<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> ILS OR LOC RWY 7L ILS RWY 7L (SA CAT I), ILS RWY 7L (SA CAT II)	<u>AMDT NO.</u> 4	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> I-TGN
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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	3.20
WIDTH OF	FINAL	SEGMENT AT 1000FT POINT	0.91
TRUE COURSE OF	FINAL	SEGMENT CONTAINING 1000FT POINT	89.88
HIGH TERRAIN IN	FINAL	SEGMENT CONTAINING 1000FT POINT	200
DISTANCE FROM	THLD	TO 1500FT POINT	14.31
WIDTH OF	INTERMEDIATE	SEGMENT AT 1500FT POINT	4.00
TRUE COURSE OF	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	89.88
HIGH TERRAIN IN	INTERMEDIATE	SEGMENT CONTAINING 1500FT POINT	200
THRESHOLD COORDINATES (IF STR-IN)	611011.15N/1500030.00W		
ARP COORDINATES	611026.71N/1495953.30W		
RUNWAY APCH END AND DIST FURTHEST FROM ARP	RUNWAY 15 DISTANCE 1.62 NM		
FAF COORDINATES	611010.28N/1500941.97W		
FIX NAME COORDINATES			
REMARKS			

QUALITY
21
CHECKED

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<u>AIRPORT</u> TED STEVENS ANCHORAGE INTL	<u>AIRPORT ID</u> PANC	<u>PROCEDURE NAME</u> ILS OR LOC RWY 7L ILS RWY 7L (SA CAT I), ILS RWY 7L (SA CAT II)	<u>AMDT NO.</u> 4	<u>CITY</u> ANCHORAGE	<u>STATE</u> AK	<u>AIRPORT ELEVATION</u> 151	<u>FACILITY</u> I-TGN
PART E: PREPARED BY							
<u>NAME</u> DAVID DANNER (TAYLOR GIBSON)			<u>OFFICE</u> AJV-A421		<u>DATE</u> 06/03/2019	<u>TITLE</u> AERONAUTICAL INFORMATION SPECIALIST	
QUALITY 21 CHECKED							