

Est. AATD Time – 1.0 Hour

## Objectives

- Calculate aircraft performance to determine compliance with departure procedure.
- Determine route based on aircraft performance and airspace restrictions.
- Determine alternate requirements.
- Obtain clearance from ATC.
- Fly two instrument approach procedures.
- Perform missed approach.
- Perform standard holds.

## Briefing

Arrive to briefing with planning completed using weather and information contained in the Pilot Briefing Packet. Assume the aircraft is full fuel and loaded to max gross weight. Everything is operational unless indicated by instructor. The Mission Table can be used as a guide to review regulatory and advisory source material. The briefing will cover your questions that arose during the planning process as well as quizzing by the instructor to ensure a working knowledge of the IFR system.

## LOFT

Line-Oriented Flight Training (LOFT) is designed to focus on critical thinking and decision making skills rather than procedures. It is assumed that you can meet Instrument-Airplane PTS though the LOFT can be used to address areas of deficiency.

To maximize the training impact approach the simulator as if you were really conducting your planned flight single-pilot IFR. Complete all checklists, procedures and communications as if you are in the airplane. Minor difference will exist between the simulator and airplane (ie alt static source) so verbalize what you are doing when such instances occur. The instructor will act as ATC throughout the flight so treat him/her as such. He/She will provide any assistance you could expect from ATC, provided you ask.

The simulator will not fly exactly like the airplane. The performance characteristics are very close but the controls will seem more sensitive than the airplane. This is normal and you must scan your instruments at a higher rate than normally required to maintain the desired flight attitude. While sometimes frustrating it forces you to increase your instrument scan proficiency so that flying the airplane seems easy in comparison.

Use the automation as appropriate to reduce cockpit workload and increase situational awareness. If you think using the autopilot is cheating – that couldn't be more untrue. The autopilot may someday save your life but you must understand its capabilities and limitations.

## Completion Standards

- Correctly determines the aircraft can comply with departure procedure performance requirements.
- Completes flight plan with appropriate alternate airport.
- Uses ATC assistance to reduce workload and increase situational awareness.
- Fly two approach procedures to instrument PTS standards.
- Executes missed approach procedures
- Correctly executes standard holding pattern

LOFT 1 - Mission Table			
Activity	Task	Reference	Notes
<b>Flight Planning</b>	Preflight Requirements	FAR 91.103, 91.167, AIM 5-1-1	
	NOTAMs	AIM 5-1-3	
	Aircraft Airworthiness	FAR 91.205	
	VOR/GPS Currency	FAR 91.171	
	Route Selection / Flight Plan	AIM 5-1-4	
	Weather Considerations		
	W&B / Performance	POH	
<b>Departure</b>	Instrument Cockpit Check		
	Takeoff Minimums	AIM 5-2-8	
	Obstacle Departure Procedure	AIM 5-2-8	
	Standard Instrument Dept	AIM 5-2-8	
	Runway Selection		
	Departure Clearances	AIM 5-2-1, 5-2-6	
<b>Enroute</b>	MEA, MOCA, OROCA	AIM 4-4-9	
	GPS Direct	AIM 4-4-9	
	IFR Communications	FAR 91.183, 91.187, AIM 5-3-3	
	Descent Planning		
	Standard Terminal Arrivals	AIM 5-4-1	
<b>Approach</b>	Approach Selection	AIM 5-4-4	
	Transition: Vectors / Feeders	AIM 5-4-5	
	ILS	AIM 1-1-9, 5-4-5	
	Localizer	AIM 1-1-9, 5-4-5	
	GPS: LNAV/VNAV/LPV	AIM 1-1-19, 5-1-16	
	VOR	AIM 1-1-3, 5-4-5	
	NDB	AIM 1-1-2, 5-4-5	
	ASR / PAR	AIM 5-4-3, 5-4-11	
	Visual / Contact	AIM 5-4-23 AIM 5-4-25	
	Circling	AIM 5-4-20	
	Visual Descent Point	AIM 5-4-5	
	Transition to VMC	FAR 91.175	
	Missed Approach	AIM 5-4-21	
	<b>Holding</b>	Standard / Non-Standard	AIM 5-3-7
Fuel Planning			
Communication Requirements		AIM 4-4-3	
<b>Emergency</b>	Lost Communications	FAR 91.185	
	Vacuum System	POH	
	Pitot-Static System	POH	
	Electrical	POH	
	Instrument	POH	
	AHRS, ADC, Display	POH	
<b>SRM</b>	Task Management		
	Automation Management		
	Aeronautical Decision Making		
	Situational Awareness		
	Controlled Flight into Terrain		

## Pilot Briefing Packet

**This briefing packet contains a standard DUATS weather briefing for the route/area described for the LOFT. Some information such as NOTAMS are been omitted and can be assumed not applicable for this flight.**

METAR KEAT 051955Z AUTO 070015KT 2SM FU OVC005 24/16 A2980 RMK AO2  
SLP091 T01290161

TAF KEAT 051747Z 0518/0618 16008KT 4SM OVC015  
FM052000 28012G18KT P6SM SCT035 SCT050 BKN100  
FM060000 26008KT P6SM SCT060 BKN100  
FM060300 30006KT P6SM BKN080 OVC100  
FM060900 VRB04KT P6SM VCSH BKN040 OVC080  
FM061600 28012KT P6SM SCT060 BKN150

!EAT 10/004 EAT SVC HAZARDOUS INFLIGHT WEATHER ADVISORY SERVICE OTS  
!EAT 01/010 EAT SVC GND RECEIVER CHECKPOINT OTS

\*\*\*\*\* Destination Closest Terminal Weather \*\*\*\*\*

METAR KRNT 051953Z 18009G14KT 10SM FEW033 SCT042 BKN050 24/19 A2987  
RMK AO2 SLP121 T02390194

TAF KBFI 051726Z 0518/0618 19011G19KT P6SM SCT013 BKN050 BKN200  
TEMPO 0518/0521 -SHRA BKN014 OVC050  
FM052100 20010KT P6SM SCT025 BKN050 BKN200  
FM060300 15008KT P6SM -RA OVC025  
FM061000 18012G20KT P6SM -SHRA BKN025 OVC045  
FM061700 19012G18KT P6SM BKN050

!RNT 03/006 RNT NAV NDB OTS WEF 1303201909  
!RNT 10/016 RNT APRON B ADJ TWY A WORK IN PROGRESS CONSTRUCTION WEF  
1210232317

\*\*\*\*\* FA Hazards and Flight Precautions \*\*\*\*\*  
current report not available

\*\*\*\*\* FA Synopsis and VFR Clouds/Weather \*\*\*\*\*

SFOC FA 051945  
SYNOPSIS AND VFR CLDS/WX  
SYNOPSIS VALID UNTIL 061400  
CLDS/WX VALID UNTIL 060800...OTLK VALID 060800-061400  
WA OR CA AND CSTL WTRS

.  
SEE AIRMET SIERRA FOR IFR CONDS AND MTN OBSCN.  
TS IMPLY SEV OR GTR TURB SEV ICE LLWS AND IFR CONDS.  
NON MSL HGTS DENOTED BY AGL OR CIG.

.  
SYNOPSIS...ALF...WK SHRTWV RDG EXTDS FM NRN CA TO WRN WA AND WL  
CONT MOVG EWD. MOD SHRTWV TROF IS WELL OFF THE PAC NW CST ARND  
135W. TROF WL APCH THE PAC NW CST AND VRISL BY 12Z. INCRG WLY  
FLOW ALG THE POLAR JTST WL MOV EWD INTO NRN CA-SRN OR AND NW NV

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AFT 03Z.

SFC...WK RDG EXTDS FM THE CNTRL CA CSTL WTRS INTO OR AND NV. RDG WL BUILD EWD INTO UT WY AND SRN ID THRU 12Z. CDFNT OFF THE PAC NW CST NR 130W WL MOV EWD TO EXTD FM SW BC-CNTRL OR-NW CA CSTL WTRS BY 12Z.

.  
WA CASCDS WWD

PAC CSTL SXNS...BKN015-025 OVC050 TOPS 100. ISOL -SHRA. BECMG 0003 BKN010-020 OVC080 LYRD FL180. OCNL VIS 3-5SM -RA BR. OTLK...MVFR CIG SHRA.

PUGET SOUND/INTR VLY...BKN030-040 TOPS 100. ISOL -SHRA. BECMG 0205 BKN020-030 OVC080 LYRD FL180. OCNL VIS 4-5SM -RA BR. OTLK...MVFR CIG SHRA.

CASCDS...BKN-OVC070-090 TOPS 120. WDLY SCT -SHRA. BECMG 0306 BKN060-070 OVC120 LYRD FL220. OCNL VIS 3-5SM -RA BR. OTLK...IFR CIG SHRASN BR.

.  
WA E OF CASCDS

CNTRL WA...SCT-BKN100 TOPS 140 BKN CI. 05Z BKN130 TOPS FL200 BKN CI. OTLK...VFR SHRA.

ERN WA...BKN080 TOPS 140. ISOL -SHRA. 00Z SCT080 SCT CI. 05Z BKN100 TOPS FL180 BKN CI. OTLK...MVFR CIG SHRA.

.  
OR CASCDS WWD

CSTL SXNS...BKN015-025 BKN100 TOPS FL180. WDLY SCT -SHRA. BECMG 0003 BKN010-020 OVC070. OCNL VIS 3-5SM -RA BR. OTLK...MVFR CIG SHRA.

WILLAMETTE VLY/SWRN INTR...BKN030-040 TOPS 100. ISOL TO WDLY SCT -SHRA. BECMG 0205 BKN020-030 OVC080 LYRD FL200. OCNL VIS 3-5SM -RA BR. OTLK...MVFR CIG SHRA.

CASCDS...BKN-OVC070-090 TOPS 130. ISOL TO WDLY SCT -SHRA. 05Z OVC060-080 LYRD FL220. OCNL VIS 3-5SM -RA BR. OTLK...MVFR CIG SHRASN.

.  
OR E OF CASCDS

SCT-BKN080-100 TOPS 120. 02Z SCT-BKN090 OVC130 TOPS FL200. BECMG 0507 BKN090 OVC130. SCT -SHRA. OTLK...VFR SHRA.

.  
CSTL WTRS

WA/OR/NRN CA...BKN015-025 BKN100 TOPS FL180. SCT -SHRA. 01Z BKN010-020 OVC080. OCNL VIS 3-5SM -RA BR. OTLK...MVFR CIG SHRA.

CNTRL CA...BKN030 TOPS 050. 05Z BKN015-025. OTLK...MVFR CIG.

SRN CA...BKN010-015 TOPS 025. 03Z OVC010-015. OTLK...IFR CIG.

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\*\*\*\*\* FA Turbulence \*\*\*\*\*  
current report not available

\*\*\*\*\* Severe Weather Warnings \*\*\*\*\*  
current report not available

\*\*\*\*\* SIGMETs \*\*\*\*\*  
current report not available

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\*\*\*\*\* Convective SIGMET \*\*\*\*\*  
MKCW WST 051955  
CONVECTIVE SIGMET...NONE

\*\*\*\*\* Center Weather Advisory \*\*\*\*\*  
current report not available

\*\*\*\*\* AIRMETs \*\*\*\*\*  
SFOS WA 051445  
AIRMET SIERRA UPDT 3 FOR IFR AND MTN OBSCN VALID UNTIL 052100

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.  
AIRMET IFR...WA OR AND CSTL WTRS  
FROM YDC TO 30WNW YKM TO ONP TO 30NNW TOU TO YDC  
CIG BLW 010/VIS BLW 3SM PCPN/BR. CONDS ENDG 18-21Z.

.  
.  
AIRMET MTN OBSCN...WA OR CA  
FROM YDC TO 40SSW FMG TO OAK TO ENI TO FOT TO TOU TO YDC  
MTNS OBSC BY CLDS/PCPN/BR. CONDS CONTG BYD 21Z THRU 03Z.

.  
.  
SFOT WA 051445  
AIRMET TANGO UPDT 3 FOR TURB VALID UNTIL 130300  
BOUNDED BY EPH-50N DLS-20ESE PDX-OLM-HUH EPH-50N  
MDT TURB DUE CONVECTIVE ACTVTY. CONDS CONTG THRU 09Z..  
NO SGFNT TURB EXP OUTSIDE OF CNVTV ACT.

\*\*\*\*\* Surface Observations \*\*\*\*\*  
METAR KEAT 051955Z AUTO 07003KT 10SM OVC060 24/16 A2980 RMK AO2  
SLP091 T02390161  
METAR KELN 051953Z AUTO 00000KT 10SM FEW065 17/06 A2982 RMK AO2  
SLP099 T02670156 TSNO  
no reports available for SMP  
METAR KRNT 051953Z 18009G14KT 10SM FEW033 SCT042 BKN050 24/19 A2987  
RMK AO2 SLP121 T02390194  
METAR KPLU 051955Z AUTO 24007G19KT 10SM SCT022 BKN033 BKN048 24/20  
A2988 RMK AO2 P0001  
METAR KPLU 052015Z AUTO 23013G20KT 190V250 10SM FEW010 SCT023  
BKN031 24/19 A2988 RMK AO2  
METAR KPLU 052035Z AUTO 23011G20KT 10SM SCT026 SCT032 BKN042 25/19  
A2988 RMK AO2  
METAR KBFI 051953Z 21009G15KT 10SM SCT022 BKN027 OVC032 23/19 A2988  
RMK AO2 SLP118 T01330089  
METAR KSEA 051953Z 25010KT 7SM -RA SCT011 BKN017 OVC043 22/19 A2989  
RMK AO2 RAB45 SLP127 P0000 T02220189  
METAR KPAE 051953Z 20024G31KT 10SM SCT027 SCT080 24/17 A2985 RMK AO2  
PK WND 22037/1938 SLP106 T02390172  
METAR KTCM 051958Z AUTO 22010KT 9SM -RA FEW006 SCT012 SCT022 BKN028

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OVC034 22/12 A2988 RMK AO2 RAB1912 CIG 019V030 CIG 021 RWY34  
SLP122 P0004 T02230215 \$  
SPECI KTCM 052001Z AUTO 22010KT 9SM FEW007 SCT013 SCT023 BKN029 OVC035  
22/22 A2988 RMK AO2 CIG 025V030 \$  
SPECI KTCM 051950Z AUTO 22011KT 8SM -RA FEW006 SCT011 BKN025 OVC033  
22/21 A2988 RMK AO2 RAB1912 CIG 011V025 \$  
SPECI KTCM 052006Z AUTO 23009KT 10SM FEW007 BKN013 BKN027 OVC035 23/22  
A2988 RMK AO2 RAE2001 CIG 013V030 BKN013 V SCT \$  
SPECI KTCM 052009Z AUTO 22011KT 10SM FEW006 BKN014 BKN025 OVC033 23/22  
A2988 RMK AO2 RAE2001 CIG 013V030 BKN014 V SCT \$  
SPECI KTCM 052017Z AUTO 22014KT 9SM -RA BKN015 BKN027 OVC035 22/21  
A2989 RMK AO2  
SPECI KTCM 052022Z AUTO 21010KT 5SM RA BR SCT014 BKN027 BKN034 OVC045  
22/21 A2989 RMK AO2 RAE2001B2017 CIG 013V027 \$  
SPECI KTCM 052032Z AUTO 21009KT 9SM -RA SCT015 SCT023 BKN038 OVC050  
23/22 A2989 RMK AO2 RAE2001B2017 CIG 022 RWY34 \$  
METAR KTIW 051953Z 24008G16KT 10SM BKN015 OVC032 23/19 A2988 RMK AO2  
RAB09E18 SLP119 P0000 T02280189  
SPECI KTIW 052014Z 22008G16KT 10SM FEW015 SCT030 BKN041 23/19 A2988  
RMK AO2  
METAR KPWT 051955Z AUTO 21018G27KT 10SM SCT011 BKN020 22/18 A2988  
RMK AO1  
METAR KPWT 052015Z AUTO 21017G26KT 10SM SCT013 22/18 A2989 RMK AO1  
METAR KPWT 052035Z AUTO 21021G27KT 10SM FEW013 BKN031 BKN037 22/17  
A2989 RMK AO1

\*\*\*\*\* Pilot Reports \*\*\*\*\*  
current report not available

\*\*\*\*\* Radar Summaries \*\*\*\*\*  
OTX 2035 AREA 3RW+ 13/61 145/109 87W  
AUTO  
^K011 LN2 MM3321 NO1 OO11 PO12 QP1

PDT 2035 PPINA AUTO

ATX 2035 CELL TRWX 165/56 D3  
AREA 4RW++ 348/108 158/104 147W  
AUTO  
^IL1 JL11 KK1 KM12 LK1 LN22 MK1 MM2221 NL12221 OK2 OM322 PL2511 QL111

RTX 2035 AREA 4RW++ 354/97 189/99 164W MT 570 307/103 C2325  
AUTO  
^J01 KJ1 KN231 LJ1112322 MJ1112432 NJ111 NN241 OJ11 OM122 PL122 QM1

\*\*\*\*\* Terminal Forecasts \*\*\*\*\*  
TAF KEAT 051747Z 0518/0618 16008KT 4SM OVC015  
FM052000 28012G18KT P6SM SCT035 SCT050 BKN100  
FM060000 26008KT P6SM SCT060 BKN100  
FM060300 30006KT P6SM BKN080 OVC100  
FM060900 VRB04KT P6SM VCSH BKN040 OVC080  
FM061600 28012KT P6SM SCT060 BKN150  
TAF KBFI 051726Z 0518/0618 19011G19KT P6SM SCT013 BKN050 BKN200

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TEMPO 0518/0521 -SHRA BKN014 OVC050  
FM052100 20010KT P6SM SCT025 BKN050 BKN200  
FM060300 15008KT P6SM -RA OVC025  
FM061000 18012G20KT P6SM -SHRA BKN025 OVC045  
FM061700 19012G18KT P6SM BKN050  
TAF KSEA 051726Z 0518/0624 21015G21KT P6SM SCT006 BKN045 BKN200  
TEMPO 0518/0521 -SHRA BKN006 OVC045  
FM052100 21012KT P6SM SCT020 BKN050 BKN200  
FM060300 17008KT P6SM -RA OVC025  
FM061000 20013G23KT P6SM -SHRA BKN025 OVC045  
FM061700 20012G20KT P6SM BKN045  
TAF KPAE 051726Z 0518/0618 21015G25KT P6SM OVC009 TEMPO 0518/0520  
-SHRA SCT009 OVC060  
FM052000 20014G22KT P6SM SCT015 BKN050 BKN200 TEMPO  
0520/0522 -SHRA BKN015 OVC050  
FM060300 17014G22KT P6SM -RA OVC025  
FM061000 18017G27KT P6SM -SHRA BKN025 OVC045  
FM061700 19014G23KT P6SM BKN045  
TAF AMD KTCM 0518/0619 20010G15KT 9000 -SHRA BKN015 OVC025 610604  
QNH2989INS  
BECMG 0520/0521 20012G20KT 9000 -RA BKN015 OVC025 WSCONDS  
620604 QNH2985INS  
BECMG 0606/0607 20020G30KT 9000 -RA BKN020 OVC030 WSCONDS  
620505 520003 540308 QNH2983INS  
BECMG 0614/0615 19010G15KT 9000 -SHRA BKN020 OVC030 610307  
QNH2992INS T13/0600Z T07/0615Z AMD 051822

## \*\*\*\*\* FD Winds Aloft Forecast \*\*\*\*\*

DATA BASED ON 051800Z	REQUESTED
VALID 060000Z FOR USE 2000-0300Z. TEMPS NEG ABV 24000	ALTITUDE
FT 3000 6000 9000 12000 18000 24000 30000 34000 39000 9000	
YKM 2321 2527+12 2528+08 2324-01 2435-12 2440-23 245249 256759 274558 2528-04	
SEA 2023 2331+11 2230+05 2131-01 2234-12 2234-23 235049 246259 263958 2230-05	
AST 2233 2237+11 2142+04 2238-01 2335-11 2242-23 235549 235857 255258 2142-06	

## \*\*\*\*\* NOTAMs \*\*\*\*\*

### \*\*\*\*\* Runway NOTAMs \*\*\*\*\*

!SEA 03/188 8S2 RWY 25 PAPI OTS  
!SEA 12/070 S36 RWY 15/33 RWY LGTS E SIDE S 1000 OTS  
!SEA 10/395 S43 RWY 15R/33L GRASS RWY CLSD  
!PLU 07/009 PLU RWY 16 REIL OTS

### \*\*\*\*\* Aerodrome NOTAMs \*\*\*\*\*

!RNT 02/007 W36 AD SHALLOW WATER AROUND DOCKS AND LAUNCH RAMP

### \*\*\*\*\* Obstruction NOTAMs \*\*\*\*\*

!SEA 03/246 80T OBST TOWER 1889 (709 AGL) 9.46 SSE (4705N11944W) (ASR  
UNKN) LGTS OTS WEF 1303310055-1304140055  
!YKM 04/004 YKM OBST TOWER 3396 (165 AGL) 14.7 NNE LGTS OTS (ASR  
1032754) TIL 1304180040  
!ELN 03/004 ELN OBST TOWER 2815 (255 AGL) 14.2 ESE LGTS OTS (ASR  
1211170) TIL 1304080422

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!ELN 04/001 ELN OBST WIND TURBINE 3460 (352 AGL) 13.6 E LGTS OTS WEF  
1304051324-1304201400  
!SEA 03/210 W16 OBST TOWER 880 (320 AGL) 7.4 SSW LGTS OTS (ASR  
1201694) TIL 1304102237  
!SEA 04/043 W16 OBST TOWER 821 (121 AGL) 2.6 SW LGTS OTS (ASR  
1060104) WEF 1304051351-1304201351  
!SEA 03/233 S36 OBST TOWER 900 (156 AGL) 9.4 SSE LGTS OTS (ASR  
1063423) TIL 1304132052  
!SEA 04/030 S43 OBST TOWER 237 (222 AGL) 3.9 WNW LGTS OTS (ASR  
1029248) TIL 1304182103  
!SEA 04/040 S50 OBST TOWER 120 (50 AGL) 0.9 S LGTS OTS (ASR 1223484)  
TIL 1304192205  
!BFI 03/023 BFI OBST CRANE UNKN (180 AGL) .37 NW AER 31L  
WEF 1203161900  
!BFI 08/127 BFI OBST CRANE UNKN (150 AGL) .75 SW AER 13R  
!BFI 03/017 BFI OBST TOWER 161 (155 AGL) 2.8 NNW LGTS OTS (ASR  
1046356) TIL 1304100330  
!PAE 10/067 PAE OBST TOWER UNKN (300 AGL) 5.5 SE (4751N12210W) LGTS  
OTS  
!TIW 04/004 TIW OBST TOWER 444 (160 AGL) 1.6 WNW LGTS OTS  
(ASR 1221299) TIL 1304200626

## \*\*\*\*\* Navigation NOTAMs \*\*\*\*\*

!ELN 01/016 ELN NAV TACAN AZM OTS  
!RNT 03/006 RNT NAV NDB OTS WEF 1303201909  
!SEA 04/047 SEA NAV ILS RWY 16R CAT 2/3 NOT AUTH WEF  
1304081600-1304082000  
!SEA 04/045 SEA NAV ILS RWY 34C CAT 2/3 NOT AUTH WEF  
1304081600-1304082000  
!SEA 04/048 SEA NAV ILS RWY 34R CAT 2/3 NOT AUTH WEF  
1304081600-1304082000  
!SEA 04/049 SEA NAV ILS RWY 16L CAT 2/3 NOT AUTH WEF  
1304081600-1304082000  
!SEA 04/032 SEA NAV VOR RECEIVER CHECK POINT 194 AZIMUTH 27.0 DME OTS  
WEF 1304032329  
!SEA 04/046 SEA NAV ILS RWY 16C CAT 2/3 NOT AUTH WEF  
1304081600-1304082000  
!SEA 04/044 SEA NAV ILS RWY 34L CAT 2/3 NOT AUTH WEF  
1304081600-1304082000

## \*\*\*\*\* Communication NOTAMs \*\*\*\*\*

## \*\*\*\*\* Airspace NOTAMs \*\*\*\*\*

!SUAW 04/522 ZSE AIRSPACE W237B LOW ACT SFC-FL229 WEF  
1304051515-1304052130  
!SUAW 04/521 ZSE AIRSPACE W237A LOW ACT SFC-FL229 WEF  
1304051515-1304052130  
!SUAW 04/519 ZSE AIRSPACE W237A HIGH ACT FL230-FL350 WEF  
1304051515-1304052130  
!SUAW 04/520 ZSE AIRSPACE W237B HIGH ACT FL230-FL350 WEF  
1304051515-1304052130  
!SUAW 04/587 ZSE AIRSPACE JUNIPER SOUTH MOA ACT 11000FT UP TO BUT NOT  
INCLUDING FL180 WEF 1304052000-1304052300



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!SUAW 04/588 ZSE AIRSPACE HART NORTH MOA ACT 11000FT UP TO BUT NOT INCLUDING FL180 WEF 1304052000-1304052300

!SUAW 04/589 ZSE AIRSPACE JUNIPER LOW MOA ACT 300FT AGL-10999FT WEF 1304052000-1304052300

!SUAW 04/590 ZSE AIRSPACE HART SOUTH MOA ACT 11000FT UP TO BUT NOT INCLUDING FL180 WEF 1304052000-1304052300

!SUAW 04/558 ZSE AIRSPACE OKANOGAN B MOA ACT 300FT AGL-8999FT WEF 1304051545-1304052215

!SUAW 04/560 ZSE AIRSPACE OKANOGAN A MOA ACT 9000FT UP TO BUT NOT INCLUDING FL180 WEF 1304051545-1304052215

!SUAW 04/556 ZSE AIRSPACE OLYMPIC A MOA ACT 6000FT UP TO BUT NOT INCLUDING FL180 WEF 1304051515-1304052130

!SUAW 04/596 ZSE AIRSPACE W570 ACT 3000FT AGL-FL500 WEF 1304061845-1304062145

!SEA 03/230 ZSE AIRSPACE UNMANNED ACFT 2 NMR PDT259037.5 1400/BLW DALGT AVOIDANCE ADZD WEF 1304011400-1304060100

!SEA 12/033 ZSE AIRSPACE UNMANNED ACFT 5 NMR 1S8 4400/BLW VFR DALGT AVOIDANCE ADZD TIL 1410240016

!SUAW 04/559 ZSE AIRSPACE OKANOGAN C MOA ACT 300FT AGL-8999FT WEF 1304051545-1304052215

!SUAW 04/562 ZSE AIRSPACE ROOSEVELT B MOA ACT 300FT AGL-8999FT WEF 1304051600-1304052230

!SUAW 04/563 ZSE AIRSPACE ROOSEVELT A MOA ACT 9000FT UP TO BUT NOT INCLUDING FL180 WEF 1304051600-1304052230

!SUAW 04/586 ZSE AIRSPACE JUNIPER NORTH MOA ACT 11000FT UP TO BUT NOT INCLUDING FL180 WEF 1304052000-1304052300

!SUAW 04/555 ZSE AIRSPACE OLYMPIC B MOA ACT 6000FT UP TO BUT NOT INCLUDING FL180 WEF 1304051515-1304052130

## \*\*\*\*\* Taxiway NOTAMs \*\*\*\*\*

!SEA 04/041 SEA TWY T BTN TWY Q AND TWY P CLSD BARRICADED WEF 1304051400-1304052359

!TIW 04/006 TIW TWY A BTN TWY A1 AND A2 CLSD WEF 1304051847-1304081400

!TIW 04/007 TIW TWY A BTN TWY A1 AND A3 CLSD WEF 1304081400-1304092359

!TIW 04/005 TIW TWY A2 CLSD WEF 1304081400-1304092359

## \*\*\*\*\* Ramp/Apron NOTAMs \*\*\*\*\*

!RNT 10/016 RNT APRON B ADJ TWY A WORK IN PROGRESS CONSTRUCTION WEF 1210232317

## \*\*\*\*\* Service NOTAMs \*\*\*\*\*

!SEA 04/042 ZSE SVC REDMOND SECONDARY SURVEILLANCE RADAR OTS/NO FLT FLWG OR TFC ADVISORIES AOB 8000 WI 70NM DSD VOR WEF 1304051600-1304052200

!SEA 04/034 ZSE SVC KINGSLEY APPROACH CONTROL CLSD 1500-2300 THU/FRI/MON WEF 1304041500-1304082300

!SEA 03/214 ZSE SVC RED BLUFF SECONDARY SURVEILLANCE RADAR OTS WEF 1303271500-1304110200

!EAT 10/004 EAT SVC HAZARDOUS INFLIGHT WEATHER ADVISORY SERVICE OTS

!EAT 01/010 EAT SVC GND RECEIVER CHECKPOINT OTS

!SMP 10/001 SMP SVC STAMPEDE PASS ASOS OTS

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!SEA 03/071 SEA SVC ARPT SFC TFC INFO SVC BCST UNAVBL WEF 1303072323  
!SEA 07/820 SEA SVC STAMPEDE PASS ASOS OTS

\*\*\*\*\* Unverified Aeronautic Information NOTAMS \*\*\*\*\*

\*\*\*\*\* Other NOTAMS \*\*\*\*\*

\*\*\*\*\* FDC NOTAMS \*\*\*\*\*

FDC 1/2936 ZOA CA.. FLIGHT RESTRICTIONS WENATCHEE, WA.  
EFFECTIVE IMMEDIATELY UNTIL FURTHER NOTICE PURSUANT TO  
14 CFR SECTION 91.137(A) (2) TEMPORARY FLIGHT RESTRICTIONS  
ARE IN EFFECT WITHIN A 5 NAUTICAL MILE RADIUS OF  
475233N/1204742W OR THE EAT VORTAC 285 DEGREE  
RADIAL AT 13.0 NAUTICAL MILES AT AND BELOW 17000 FEET MSL  
TO PROVIDE A SAFE ENVIRONMENT FOR FIRE FIGHTING AIRCRAFT  
OPERATIONS. US FOREST SERVICE TELEPHONE 775-782-1401  
OR FREQ 132.125/CASHMERE FIRE IS IN CHARGE OF THE  
OPERATION. SEATTLE ARTCC /ZOA/ TELEPHONE 206-745-3331  
IS THE FAA COORDINATION FACILITY.

!EAT 03/001 EAT NAV ILS RWY 12 LLZ UNUSBL BYD 15 BLW 5700

!EAT 02/004 EAT NAV ILS RWY 12 DME UNMONITORED

!FDC 1/6820 EAT FI/T ODP PANGBORN MEMORIAL, WENATCHEE, WA.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 3...

TAKEOFF MINIMUMS:

RWY 7, 12, NA-OBSTACLES.

RWY 25, 30 CATS A/B 1600-2 OR STANDARD WITH A MINIMUM CLIMB OF  
415 FEET PER NM TO 3100 FEET.

CATS C/D 5500-3 OR STANDARD WITH A MINIMUM CLIMB OF 570 FEET  
PER NM TO 7200 FEET.

DEPARTURE PROCEDURE: RWY 12, NA.

ALL OTHER DATA REMAINS AS PUBLISHED.

!ELN 08/001 ELN AD ABN OTS

!YKM 02/021 YKM OBST CRANE 1347 (180 AGL) 1.8 NW LGTS OTS

!FDC 3/9250 ZSE WA.. FI/T ROUTE ZSE.

V4 SEATTLE (SEA) VORTAC, WA TO HUMPP, WA MEA 10000 MOCA 6200.

!FDC 3/6305 ZSE FI/T ROUTE ZSE.

V121 WHIFF, OR MCA 12000 NE.

!FDC 2/5341 ZSE WA.. FI/T ROUTE ZSE.

V536 PENDLETON (PDT) VORTAC, OR TO WALLA WALLA (ALW) VOR/DME, WA  
MEA 4300.

!FDC 2/0462 ZSE WA.. FI/T ROUTE ZSE.

V2-V298 SEATTLE (SEA) VORTAC, WA EASTBOUND TO VAMPS INT, WA MEA  
8400. VAMPS INT, WA TO BEEZR INT, WA MEA 8400.

!FDC 3/9674 S43 FI/P ODP HARVEY FIELD, SNOHOMISH, WA.

TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES AMDT 1...

TAKEOFF OBSTACLE NOTE:

RWY 33R CHANGE TO READ: POWERLINE BEGINNING 32 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, 22 FT AGL/38 FT MSL. POWERLINE 131 FT FROM DER, LEFT AND RIGHT OF CENTERLINE, 47 FT AGL/63 FT MSL. TOWER 5708 FT FROM DER, 1956 FT RIGHT OF CENTERLINE, 207 FT AGL/301 FT MSL. TOWER 1.00 NM FT FROM DER, 2033 FT RIGHT OF CENTERLINE, 212 FT AGL/264 FT MSL.

ALL OTHER DATA REMAINS AS PUBLISHED.

THIS IS TAKEOFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES, AMDT 1A.

!FDC 3/7922 S50 FI/T SID AUBURN MUNI, AUBURN, WA,

AUBURN ONE DEPARTURE...

NA EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE RNAV SYSTEM WITH GPS.

!FDC 2/9057 RNT FI/T IAP RENTON MUNI, RENTON, WA.

NDB RWY 16, AMDT 7...

NOTE: DUAL ADF RECEIVERS REQUIRED FOR MISSED APPROACH.

DISREGARD TCM R-022 AT ZEBKU INT.

!FDC 2/9152 BFI FI/T IAP BOEING FIELD/KING COUNTY INTL, SEATTLE, WA.

LOC/DME RWY 13R, AMDT 2...

DISREGARD TCM R-035 AT BLAKO INT.

!FDC 2/9150 BFI FI/T IAP BOEING FIELD/KING COUNTY INTL, SEATTLE, WA.

ILS RWY 13R, AMDT 30...

DISREGARD TCM R-035 AT BLAKO.

!FDC 3/4665 SEA FI/P IAP SEATTLE-TACOMA INTL, SEATTLE, WA

ILS OR LOC RWY 34C AMDT 3...

ILS RWY 34C (SA CAT I) AMDT 3...

ILS RWY 34C (SA CAT II) AMDT 3...

DELETE CHART MAXIMUM 2000 AT COYLA.

THIS IS ILS OR LOC RWY 34C AMDT 3A , ILS RWY 34C (SA CAT I) AMDT 3A, ILS RWY 34C (SA CAT II) AMDT 3A

!FDC 3/4660 SEA FI/P IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

ILS OR LOC RWY 16R AMDT 2...

ILS RWY 16R (SA CAT I) AMDT 2...

ILS RWY 16R (CAT II) AMDT 2...

ILS RWY 16R (CAT III) AMDT 2...

CATEGORY III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION

REQUIRED. S-ILS 16R: CAT IIIA CAT A, B, C, D, RVR 700. CAT IIIB

CAT A, B, C, D, RVR 300. CAT IIIC NA.

THIS IS ILS OR LOC RWY 16R AMDT 2A, ILS RWY 16R (SA CAT I) AMDT

2A, ILS RWY 16R (CAT II) AMDT 2A, ILS RWY 16R (CAT III) AMDT 2A

!FDC 3/4659 SEA FI/P IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

ILS OR LOC RWY 16L AMDT 5...

## LOFT 1 – KEAT to KRNT

## STUDENT GUIDE

ILS RWY 16L (SA CAT I) AMDT 5...

ILS RWY 16L (CAT II) AMDT 5...

ILS RWY 16L (CAT III) AMDT 5...

CATEGORY III ILS - SPECIAL AIRCREW AND AIRCRAFT CERTIFICATION  
REQUIRED. S-ILS 16L: CAT IIIA CAT B, C, D, RVR 700. CAT IIIB  
CAT B, C, D, RVR 300. CAT IIIC NA. CAT A NA.

THIS IS ILS OR LOC RWY 16L AMDT 5A, ILS RWY 16L (SA CAT I) AMDT  
5A, ILS RWY 16L (CAT II) AMDT 5A, ILS RWY 16L (CAT III) AMDT 5A

!FDC 3/3109 SEA FI/P IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

ILS OR LOC RWY 34R AMDT 2...

ILS RWY 34R (SA CAT I) AMDT 2...

ILS RWY 34R (SA CAT II) AMDT 2...

DELETE CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY  
34R/C.

ADD CHART NOTE: SIMULTANEOUS APPROACH AUTHORIZED WITH RWY 34L.

THIS IS ILS OR LOC RWY 34R AMDT 2A, ILS RWY 34R (SA CAT I) AMDT  
2A, ILS RWY 34R (SA CAT II) AMDT 2A.

!FDC 3/3081 SEA FI/P IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

RNAV (GPS) Y RWY 34L, AMDT 1...

DELETE PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON  
V485 SOUTHBOUND.

CHART PLANVIEW NOTE: PROCEDURE NA FOR ARRIVALS AT CIDUG ON V495  
SOUTHBOUND.

THIS IS RNAV (GPS) Y RWY 34L, AMDT 1A.

!FDC 3/3080 SEA FI/T IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

RNAV (GPS) Y RWY 34R, AMDT 2...

PROCEDURE NA.

!FDC 3/3015 SEA FI/T IAP SEATTLE-TACOMA INTL, SEATTLE, WA.

RNAV (GPS) Y RWY 16C, AMDT 2...

TERMINAL ROUTE FROM GRIFY (IAF) WAYPOINT TO ERYKA (IAF)  
WAYPOINT NA.

!FDC 3/6639 PAE FI/T IAP SNOHOMISH COUNTY (PAINE FLD), EVERETT, WA.

RNAV (GPS) RWY 34L, AMDT 1...

LNAV MDA 1160/ HATH 582 ALL CATS, VISIBILITY CATS C/D 1 3/8.

CIRCLING MDA 1200/ HAA 594 ALL CATS, VISIBILITY CAT C 1 3/4.

DISREGARD ZEREN STEPDOWN FIX AND ALTITUDE.

VDP 1.59 NM TO RW34L.

TEMPORARY CRANE 847 MSL 0.40 NM SOUTHEAST OF RWY 34L.

!FDC 3/6638 PAE FI/T IAP SNOHOMISH COUNTY (PAINE FLD), EVERETT, WA.

RNAV (GPS) Y RWY 16R, AMDT 1...

RNAV (GPS) Z RWY 16R, ORIG...

ILS OR LOC/DME Z RWY 16R, ORIG...

ILS OR LOC/DME Y RWY 16R, AMDT 22...

VOR/DME RWY 16R, ORIG-A...

VOR RWY 16R, ORIG-A...

CIRCLING MDA 1200/ HAA 594 ALL CATS, VISIBILITY CAT C 1 3/4.

TEMPORARY CRANE 847 MSL 0.79 NM SOUTHEAST OF KPAE.

!FDC 2/2552 TCM FI/T STAR MCCHORD FIELD

ARRIE SIX ARRIVAL,

NA EXCEPT FOR AIRCRAFT EQUIPPED WITH SUITABLE  
RNAV SYSTEM WITH GPS, TCM R-260 UNUSABLE.

!FDC 2/2471 TIW FI/T IAP TACOMA NARROWS, TACOMA, WA.

RNAV (GPS) RWY 17, ORIG...

ADD PROFILE NOTE: VGSI AND RNAV GLIDEPATH NOT COINCIDENT.

!FDC 2/2139 TIW FI/T IAP TACOMA NARROWS, TACOMA, WA.

ILS RWY 17, AMDT 8A...

ADD PROFILE NOTE: VGSI AND ILS GLIDEPATH NOT COINCIDENT.