

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.**

\*\*\*\*\* Departure Closest Terminal Weather \*\*\*\*\*

METAR KDLS 052053Z AUTO 30018G23KT 10SM BKN040 BKN60 17/07 A2989  
RMK AO2 SLP123 T01720072 56004

TAF KDLS 051739Z 0518/0618 30009KT P6SM VCSH SCT050 BKN070  
FM051900 31014G24KT P6SM -SHRA BKN060 OVC080  
FM060300 31011KT P6SM -SHRA BKN050 OVC070  
FM060600 VRB05KT P6SM -SHRA BKN050 OVC070  
FM061200 27009KT P6SM VCSH BKN060 OVC080

IDLS 09/021 DLS RWY 12/30 NOW RWY 13/31

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

METAR KTIW 052053Z 22009KT 10SM -RA FEW018 BKN020 BKN080 13/09 A2988  
RMK AO2 RAB52 SLP120 P0000 60001 T01280089 51000

TAF is not available, refer to the Area Forecast

!TIW 04/004 TIW OBST TOWER 444 (160 AGL) 1.6 WNW LGTS OTS  
(ASR 1221299) TIL 1304200626  
!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

\*\*\*\*\* 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  
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 CASDCS 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

\*\*\*\*\* Convective SIGMET \*\*\*\*\*

MKCW WST 052055  
CONVECTIVE SIGMET...NONE

\*\*\*\*\* Center Weather Advisory \*\*\*\*\*

current report not available

\*\*\*\*\* AIRMETs \*\*\*\*\*

SFOS WA 052045  
AIRMET SIERRA UPDT 4 FOR IFR AND MTN OBSCN VALID UNTIL 060300

.  
NO SGFNT IFR EXP OUTSIDE OF CNVTV ACT.

.  
AIRMET MTN OBSCN...WA ID MT  
FROM 80E YDC TO 50WSW YXC TO 40SW YQL TO 60SE FCA TO LKT TO  
50SSW GEG TO 80E YDC  
MTNS OBSC BY CLDS/PCPN. CONDS CONTG BYD 03Z THRU 09Z.

.  
AIRMET MTN OBSCN...WA OR CA  
FROM YDC TO 20ESE DSD TO 40E RBL TO ENI TO FOT TO ONP TO 20NW  
TOU TO 20N HUH TO YDC  
MTNS OBSC BY CLDS/PCPN/BR. CONDS CONTG BYD 03Z THRU 09Z.

.  
OTLK VALID 0300-0900Z  
AREA 1...MTN OBSCN CA  
BOUNDED BY 30S ENI-SAC-30WSW CZQ-40SSW SNS-40SSW OAK-30S ENI  
MTNS OBSC BY CLDS. CONDS DVLPG 03-06Z. CONDS CONTG THRU 09Z.

.  
AREA 2...MTN OBSCN CA  
BOUNDED BY 40NNE LAX-30SW HEC-60S TRM-20S MZB-LAX-40NNE LAX  
MTNS OBSC BY CLDS. CONDS DVLPG 03-06Z. CONDS CONTG THRU 09Z.

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SFOT WA 052045  
AIRMET TANGO UPDT 3 FOR TURB AND STG SFC WNDZ VALID UNTIL 060300

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. .  
. .  
OTLK VALID 0300-0900Z  
AREA 1...TURB OR CA ID NV AND CSTL WTRS  
BOUNDED BY 20N BKE-60WSW ELY-CZQ-120SW PYE-140WSW FOT-150W ONP-  
20N BKE  
MOD TURB BTN FL240 AND FL370. CONDS CONTG THRU 09Z.

.  
AREA 2...TURB WA OR CA AND CSTL WTRS  
BOUNDED BY 20SW YDC-100S LKV-30SSW FOT-40WNW TOU-20SW YDC  
MOD TURB BLW 120. CONDS DVLPG 03-06Z. CONDS CONTG THRU 09Z.

.  
AREA 3...STG SFC WNDZ WA OR CA AND CSTL WTRS  
BOUNDED BY TOU-60N FOT-140W FOT-140W TOU-TOU  
SUSTAINED SURFACE WINDS GTR THAN 30KT EXP. CONDS DVLPG 03-06Z.  
CONDS CONTG THRU 09Z.

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SFOZ WA 052045  
AIRMET ZULU UPDT 3 FOR ICE AND FRZLVL VALID UNTIL 060300

.  
AIRMET ICE...WA OR CA AND CSTL WTRS  
FROM 30SSE YDC TO 40SE LKV TO 30WSW FMG TO 130WSW SNS TO 140WSW  
FOT TO 140W TOU TO 30SSE YDC  
MOD ICE BTN 080 AND FL180. CONDS CONTG BYD 03Z THRU 09Z.

.  
OTLK VALID 0300-0900Z...ICE WA OR CA ID MT NV AND CSTL WTRS  
BOUNDED BY YDC-50WSW YXC-50ESE YXC-40NW LKT-70SW BAM-40SSW  
FMG-130WSW SNS-140WSW FOT-140W TOU-YDC  
MOD ICE BTN 080 AND FL180. CONDS CONTG THRU 09Z.

.

FRZLVL...RANGING FROM 050-135 ACRS AREA

080 ALG 140WSW ENI-20NNW PYE-30NNE SAC-50SW REO-40ENE REO  
120 ALG 160SW RZS-120SSW RZS-50SW LAX-20WNW HEC-50S LAS

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\*\*\*\*\* Surface Observations \*\*\*\*\*

METAR KDLS 052053Z AUTO 30018G23KT 10SM BKN040 BKN060 17/07 A2989

RMK AO2 SLP123 T01720072 56004

no reports available for 4S2

current hourly report not available for CZK

METAR KCZK 051845Z 26005KT 10SM FEW021 OVC040 13/13 RMK SLP142 NO

SPECI CLD HGT AND VIS VISUALLY ESTMD

METAR KPLU 052055Z AUTO 27009G16KT 10SM FEW023 SCT031 BKN037 14/12

A2989 RMK AO2

METAR KPLU 052115Z AUTO 24012G15KT 200V260 10SM SCT034 BKN043 13/10

A2989 RMK AO2

METAR KTCM 052058Z AUTO 23014KT 8SM -RA FEW010 SCT024 SCT033 BKN040

BKN047 BKN055 14/12 A2988 RMK AO2 RAE2001B2017E2038B2054

SLP122 P0002 60007 T01370120 58003 \$

SPECI KTCM 052103Z AUTO 24015KT 8SM -RA FEW010 SCT015 BKN022 BKN028

BKN055 13/12 A2988 RMK AO2 CIG 022V047 BKN022 V SCT \$

SPECI KTCM 052108Z AUTO 24013KT 10SM -RA FEW010 BKN017 BKN026 BKN085

13/11 A2988 RMK AO2 CIG 015V042 BKN017 V SCT CIG 010 RWY34 \$

SPECI KTCM 052113Z AUTO 24013KT 10SM -RA FEW010 SCT016 BKN023 BKN029

BKN046 OVC085 13/11 A2988 RMK AO2 CIG 015V025 \$

SPECI KTCM 052118Z AUTO 24013KT 10SM FEW010 SCT017 BKN028 BKN034 OVC045

13/11 A2989 RMK AO2 CIG 016V028

SPECI KTCM 052120Z AUTO 23014G20KT 9SM -RA FEW010 SCT017 BKN028 BKN043

13/11 A2989 RMK AO2 RAE2118 CIG 016V028 CIG 019 RWY34 \$

METAR KOLM 052054Z 21009KT 9SM FEW015 BKN031 OVC038 12/09 A2990 RMK

AO2 SLP123 60000 T01220094 53001

METAR KGRF 052058Z AUTO 21010G16KT 10SM SCT010 BKN013 BKN021 OVC028

12/11 A2988 RMK AO2 RAB2004E2022DZB1959E2004B2022E2026

SLP122 P0003 60005 T01250111 58002

SPECI KGRF 052102Z AUTO 21008G16KT 9SM FEW003 SCT010 BKN014 BKN021

OVC028 12/11 A2988 RMK AO2

SPECI KGRF 052104Z AUTO 20009G16KT 8SM -DZ FEW003 SCT010 BKN014 BKN021

OVC028 12/11 A2988 RMK AO2

SPECI KGRF 052114Z AUTO 19011G17KT 9SM -RA FEW010 SCT015 BKN027 BKN033

OVC050 12/10 A2989 RMK AO2 CIG 012V027

SPECI KGRF 052119Z AUTO 20009G17KT 9SM -RA SCT010 SCT020 BKN032 BKN055

12/10 A2989 RMK AO2 DZB2104

METAR KTIW 052053Z 22009KT 10SM -RA FEW018 BKN040 BKN080 13/09 A2988

RMK AO2 RAB52 SLP120 P0000 60001 T01280089 51000

METAR KSEA 052053Z 22009KT 10SM FEW013 BKN021 OVC039 13/08 A2988 RMK

AO2 RAE01 SLP125 P0000 60000 T01280083 50000

METAR KRNT 052053Z 18009G14KT 10SM FEW023 BKN039 BKN055 14/09 A2988

RMK AO2 SLP121 T01440089 51001

METAR KBFI 052053Z 20007KT 10SM SCT022 SCT033 BKN042 13/08 A2987 RMK

AO2 SLP116 T01330083 50001

SPECI KBFI 052118Z 20005KT 10SM BKN026 OVC032 13/08 A2987 RMK AO2

METAR KSHN 052053Z AUTO 22012KT 9SM SCT023 BKN030 OVC038 12/11 A2987

RMK AO2 RAE49 SLP115 P0000 60001 T01220106 50003

METAR KPWT 052055Z AUTO 21017G23KT 10SM FEW013 SCT021 BKN029 13/08

A2989 RMK AO1 57003

METAR KPWT 052115Z AUTO 20018G27KT 10SM FEW013 SCT021 SCT027 12/08

A2989 RMK AO1

\*\*\*\*\* Pilot Reports \*\*\*\*\*

current report not available

\*\*\*\*\* Radar Summaries \*\*\*\*\*

PDT 2035 PPINA AUTO

OTX 2035 AREA 3RW+ 13/61 145/109 87W

AUTO

^KO11 LN2 MM3321 NO1 OO11 PO12 QP1

RTX 2035 AREA 4RW++ 354/97 189/99 164W MT 570 307/103 C2325

AUTO

^JO1 KJ1 KN231 LJ1112322 MJ1112432 NJ111 NN241 OJ11 OM122 PL122 QM1

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

\*\*\*\*\* Terminal Forecasts \*\*\*\*\*

TAF KDLS 051739Z 0518/0618 30009KT P6SM VCSH SCT050 BKN070

FM051900 31014G24KT P6SM -SHRA BKN060 OVC080

FM060300 31011KT P6SM -SHRA BKN050 OVC070

FM060600 VRB05KT P6SM -SHRA BKN050 OVC070

FM061200 27009KT P6SM VCSH BKN060 OVC080

TAF KTCM 0521/0703 20010G15KT 9000 -SHRA FEW008 SCT015 BKN020 OVC040

610604 QNH2988INS

BECMG 0603/0604 18012G18KT 9000 -RA BR BKN015 OVC030

620604 510003 QNH2985INS

BECMG 0608/0609 20025G35KT 9000 -SHRA FEW030 SCT040 BKN050

OVC060 610505 530005 QNH2983INS

BECMG 0614/0615 22015G20KT 9000 -SHRA FEW010 SCT020 BKN030

OVC050 610406 510003 QNH2989INS T14/0521Z T07/0614Z

TAF KOLM 051726Z 0518/0618 21010KT P6SM SCT015 OVC035 TEMPO

0518/0522 -SHRA BKN015 OVC025

FM052200 20010KT P6SM SCT020 BKN040 OVC200

FM060300 16008KT 5SM -RA BR OVC018

FM061000 20013G22KT 6SM -SHRA BR BKN020 OVC045

FM061600 21010KT P6SM SCT025 BKN045

TAF AMD KGRF 0516/0619 20010G15KT 9000 -RA FEW015 OVC027 620604

QNH2980INS

BECMG 0520/0521 20012G20KT 9000 -RA SCT015 OVC025 WSCONDS

620604 QNH2985INS

BECMG 0606/0607 20020G30KT 9000 -RA OVC030 WSCONDS 620505

520003 540308 QNH2983INS

BECMG 0614/0615 19010G15KT 9000 -SHRA OVC030 610307

QNH2992INS T13/0600Z T07/0615Z AMD 051617

TAF AMD KSEA 052101Z 0521/0624 22009KT P6SM FEW013 SCT021 OVC040

TEMPO 0521/0523 SCT013 BKN021 OVC040

FM060300 17008KT P6SM -RA OVC025

FM061000 20013G23KT P6SM -SHRA BKN025 OVC045

FM061700 20012G20KT P6SM BKN045

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

# LOFT 3 - KDLS TO KTIW

# STUDENT GUIDE

FM061700 19012G18KT P6SM BKN050

\*\*\*\*\* 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 7000  
IMB 2415-04 2420-10 2437-20 2539-32 255148 266758 275460  
RDM 2317+03 2231-04 2226-10 2342-20 2444-31 255548 256658 266062 2221+00  
PDX 2128 2335-01 2237-05 2233-11 2347-21 2344-32 235648 246258 255360 2235-02  
YKM 2321 2527+02 2528-04 2324-11 2435-22 2440-33 245249 256759 274558 2527+00  
AST 2233 2237-01 2142-06 2238-11 2335-21 2242-33 235549 235857 255258 2138-02  
SEA 2023 2331-01 2230-05 2131-11 2234-22 2234-33 235049 246259 263958 2230-02

\*\*\*\*\* NOTAMs \*\*\*\*\*

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

!DLS 09/021 DLS RWY 12/30 NOW RWY 13/31  
!PDX 03/009 PDX RWY 10R/28L CLSD 2130-2230 TUE WEF  
1303122130-1304092230  
!PDX 03/010 PDX RWY 10L/28R CLSD 1500-1600 WED WEF  
1303131500-1304101600  
!PDX 04/004 PDX RWY 21 REIL OTS WEF 1304011340-1305012359  
!SEA 03/220 2W3 RWY 34 REIL OTS  
!PLU 07/009 PLU RWY 16 REIL OTS  
!SEA 12/070 S36 RWY 15/33 RWY LGTS E SIDE S 1000 OTS

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

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

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

!PDX 03/031 PDX OBST TOWER 180 (110 AGL) 1.5 SW LGTS OTS (ASR  
1061622) WEF 1303260737-1304100737  
!PDX 04/002 PDX OBST TOWER 97 (75 AGL) 0.54 SW (453453N1223621W)  
FLAGGED/LGTD WEF 1304011327-1310192330  
!PDX 02/019 PDX OBST POWER LINES UNKN (542 AGL) 6 W LGTS OTS  
!YKM 04/004 YKM OBST TOWER 3396 (165 AGL) 14.7 NNE LGTS OTS (ASR  
1032754) TIL 1304180040  
!SEA 04/039 55S OBST TOWER 1557 (259 AGL) 1.0 E LGTS OTS (ASR  
1064744) WEF 1304041819-1304191819  
!SEA 04/038 55S OBST TOWER 1226 (265 AGL) 6.0 SW LGTS OTS (ASR  
1064743) WEF 1304041759-1304191759  
!SEA 04/010 W37 OBST TOWER 388 (160 AGL) 1.7 W LGTS OTS (ASR 1255231)  
TIL 1304162036  
!SEA 03/233 S36 OBST TOWER 900 (156 AGL) 9.4 SSE LGTS OTS (ASR  
1063423) TIL 1304132052  
!SEA 04/040 S50 OBST TOWER 120 (50 AGL) 0.9 S LGTS OTS (ASR 1223484)  
TIL 1304192205  
!TIW 04/004 TIW OBST TOWER 444 (160 AGL) 1.6 WNW LGTS OTS  
(ASR 1221299) TIL 1304200626  
!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

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

!MMV 06/025 IMB NAV TACAN AZM OTS



!PDX 04/001 PDX NAV ILS RWY 28L GP OTS WEF 1304011600-1310150100  
!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  
!RNT 03/006 RNT NAV NDB OTS WEF 1303201909

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

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

!SUAW 04/602 ZSE AIRSPACE R6714A ACT SFC-15000FT WEF  
1304052032-1305032359  
!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 04/604 ZSE AIRSPACE R6714B ACT SFC-15000FT WEF  
1304052032-1305040001  
!SUAW 04/600 ZSE AIRSPACE R6714C ACT SFC-15000FT WEF  
1304052032-1305040001  
!SUAW 04/587 ZSE AIRSPACE JUNIPER SOUTH MOA ACT 11000FT UP TO BUT NOT  
INCLUDING FL180 WEF 1304052000-1304052300  
!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 04/603 ZSE AIRSPACE R6714F ACT SFC-15000FT WEF  
1304052032-1305040001  
!SUAW 04/601 ZSE AIRSPACE R6714G ACT SFC-15000FT WEF

1304052032-1305040001

!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 \*\*\*\*\*

!MMV 09/091 4S2 TWY A EAST NORTH RAMP CLSD WEF 1209201400

!PDX 03/033 PDX TWY C BTN TWY E AND TWY J CLSD WEF

1304011430-1305312330

!PDX 03/034 PDX TWY F BTN RWY 10R/28L AND TWY C CLSD WEF

1304011430-1305312330

!PDX 03/036 PDX TWY C BTN TWY C6 AND TWY C8 CLSD WEF

1304011600-1309272330

!PDX 03/035 PDX TWY J CLSD ACFT WINGSPAN GTR THAN 94 EXC ACFT WITH  
WINGSPANS LESS THAN 118 FT UNDER TOW WEF 1304011430-1305312330

!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

!RDM 04/010 RDM SVC SEE ZSE 04/042 REDMOND SECONDARY SURVEILLANCE  
RADAR OTS WEF 1304051600-1304052200

!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 \*\*\*\*\*

\*\*\*\*\* NOTAMs without keywords \*\*\*\*\*

!YYJ 04/011 YYJ

CYYJ ILS/DME RWY 09 APCH: ILS/DME MINIMA:

ALL CAT TO READ: 305 (250) 3/4 RVR 40

WEF 1304051430-1306210200

!YYJ 02/020 YYJ

CYYJ OBST LGT U/S BLDG 483916N 1232455W (APRX 0.6 NM NNE AD)

49 FT AGL 91 MSL

WEF 1302251845-1304302359

!YYJ 02/008 YYJ

CYYJ AMEND CFS NAV: ILS:

IYJ FREQ TO READ: 109.95

!YYJ 04/001 YYJ

CYYJ ILS 27 U/S

WEF 1304021900-1306172359

!YYJ 04/002 YYJ

IYJ- DME CH36(Y) U/S

WEF 1304021900-1306172359

\*\*\*\*\* FDC NOTAMs \*\*\*\*\*

!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 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 2/1558 OLM FI/T IAP OLYMPIA RGNL, OLYMPIA, WA.

ILS OR LOC RWY 17, AMDT 11...

DISREGARD TCM R-230 AT HARBOR OM/INT/OLM 5.1/RADAR.

!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 2/2471 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.

!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...  
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 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.