



# APPENDICES





# **Appendix D**

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**FAA INM MODEL**

**Airport Master Plan Update  
William R. Fairchild International Airport  
Port Angeles, Washington**

September 2011

**URS**



### BASE CASE – YEAR 2007

INM 7.0 SCENARIO RUN INPUT REPORT 21-Sep-11 10:41

STUDY: G:\WORK\PORT ANGELES MASTER PLAN\INM\CLM\

Created : 27-Oct-09 11:40

Units : English

Airport : CLM

Description :

William R. Fairchild International Airport

SCENARIO: Y2007

Created : 27-Oct-09 11:46

Description :

Last Run : 08-Sep-11 14:06

Run Duration : 000:00:11

STUDY AIRPORT

Latitude : 48.120194 deg

Longitude : -123.499694 deg

Elevation : 291.0 ft

CASES RUN:

CASENAME: CLM - Base Case (2007)

Temperature : 58.0 F

Pressure : 29.92 in-Hg

AverageWind : 8.0 kt

ChangeNPD : No

STUDY RUNWAYS

08

Latitude : 48.121036 deg

Longitude : -123.511515 deg  
Xcoord : -0.4752 nmi  
Ycoord : 0.0506 nmi  
Elevation : 283.8 ft  
OtherEnd : 26  
Length : 6347 ft  
Gradient : 0.12 %  
TkoThresh : 0 ft  
AppThresh : 0 ft

CASENAME: CLM - Base Case (2007)

RwyWind : 8.0 kt

13

Latitude : 48.126566 deg  
Longitude : -123.504759 deg  
Xcoord : -0.2036 nmi  
Ycoord : 0.3826 nmi  
Elevation : 227.2 ft  
OtherEnd : 31  
Length : 3244 ft  
Gradient : 1.36 %  
TkoThresh : 0 ft  
AppThresh : 0 ft

CASENAME: CLM - Base Case (2007)

RwyWind : 8.0 kt

26

Latitude : 48.116656 deg  
Longitude : -123.486367 deg  
Xcoord : 0.5358 nmi  
Ycoord : -0.2124 nmi  
Elevation : 291.4 ft  
OtherEnd : 08  
Length : 6347 ft  
Gradient : -0.12 %  
TkoThresh : 0 ft  
AppThresh : 1344 ft

CASENAME: CLM - Base Case (2007)

RwyWind : 8.0 kt

31

Latitude : 48.119060 deg

## Appendix D: FAA INM Model

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Longitude : -123.497632 deg  
Xcoord : 0.0829 nmi  
Ycoord : -0.0681 nmi  
Elevation : 271.3 ft  
OtherEnd : 13  
Length : 3244 ft  
Gradient : -1.36 %  
TkoThresh : 0 ft  
AppThresh : 0 ft

CASENAME: CLM - Base Case (2007)

RwyWind : 8.0 kt

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### STUDY TRACKS

RwyId-OpType-TrkId	Sub	PctSub	TrkType	Delta(ft)
08-APP-AR08E	0	100.00	Vectors	0.0
08-APP-AR08W	0	100.00	Vectors	0.0
08-DEP-DP08E	0	100.00	Vectors	0.0
08-DEP-DP08W	0	100.00	Vectors	0.0
08-TGO-TGO08	0	100.00	Vectors	0.0
13-APP-AR13E	0	100.00	Vectors	0.0
13-APP-AR13W	0	100.00	Vectors	0.0
13-DEP-DP13E	0	100.00	Vectors	0.0
13-DEP-DP13W	0	100.00	Vectors	0.0
13-TGO-TGO13	0	100.00	Vectors	0.0
26-APP-AR26E	0	100.00	Vectors	0.0
26-APP-AR26W	0	100.00	Vectors	0.0

26-DEP-DP26E  
 0 100.00 Vectors 0.0  
 26-DEP-DP26W  
 0 100.00 Vectors 0.0  
 26-TGO-TGO26  
 0 100.00 Vectors 0.0  
 31-APP-AR31E  
 0 100.00 Vectors 0.0  
 31-APP-AR31W  
 0 100.00 Vectors 0.0  
 31-DEP-DP31E  
 0 100.00 Vectors 0.0  
 31-DEP-DP31W  
 0 100.00 Vectors 0.0  
 31-TGO-TGO31  
 0 100.00 Vectors 0.0

STUDY TRACK DETAIL

RwyId-OpType-TrkId-SubTrk	#	SegType	Dist/Angle	Radius(nmi)
08-APP-AR08E-0	1	Straight	4.0000 nmi	
	2	Left-Turn	171.0000 deg	0.7300
	3	Straight	0.6200 nmi	
08-APP-AR08W-0	1	Straight	4.0000 nmi	
08-DEP-DP08E-0	1	Straight	4.0000 nmi	
08-DEP-DP08W-0	1	Straight	1.5800 nmi	
	2	Left-Turn	171.0000 deg	0.7300
	3	Straight	4.0000 nmi	
08-TGO-TGO08-0	1	Straight	1.5802 nmi	
	2	Left-Turn	180.0000 deg	0.7300
	3	Straight	2.2020 nmi	
	4	Left-Turn	180.0000 deg	0.7300
	5	Straight	0.6218 nmi	
13-APP-AR13E-0	1	Straight	4.0000 nmi	
	2	Left-Turn	128.0000 deg	0.7300
13-APP-AR13W-0				



## Appendix D: FAA INM Model

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1	Straight	4.0000 nmi	
2	Right-Turn	60.0000 deg	0.7300
13-DEP-DP13E-0			
1	Straight	0.5400 nmi	
2	Left-Turn	43.0000 deg	0.7300
3	Straight	4.0000 nmi	
13-DEP-DP13W-0			
1	Straight	0.5400 nmi	
2	Right-Turn	120.0000 deg	0.7300
3	Straight	4.0000 nmi	
13-TGO-TGO13-0			
1	Straight	1.0400 nmi	
2	Right-Turn	180.0000 deg	0.7300
3	Straight	1.5400 nmi	
4	Right-Turn	180.0000 deg	0.7300
5	Straight	0.5000 nmi	
26-APP-AR26E-0			
1	Straight	4.0000 nmi	
26-APP-AR26W-0			
1	Straight	4.0000 nmi	
2	Right-Turn	171.0000 deg	0.7300
3	Straight	0.7560 nmi	
26-DEP-DP26E-0			
1	Straight	1.6600 nmi	
2	Right-Turn	171.0000 deg	0.7280
3	Straight	4.0000 nmi	
26-DEP-DP26W-0			
1	Straight	4.0000 nmi	
26-TGO-TGO26-0			
1	Straight	1.5802 nmi	
2	Right-Turn	180.0000 deg	0.7300
3	Straight	2.2020 nmi	
4	Right-Turn	180.0000 deg	0.7300
5	Straight	0.6218 nmi	
31-APP-AR31E-0			
1	Straight	4.0000 nmi	
2	Right-Turn	43.0000 deg	0.7300
31-APP-AR31W-0			
1	Straight	4.0000 nmi	
2	Left-Turn	120.0000 deg	0.7300
31-DEP-DP31E-0			
1	Straight	0.5400 nmi	

2 Right-Turn 128.0000 deg 0.7300  
3 Straight 4.0000 nmi  
31-DEP-DP31W-0  
1 Straight 0.5400 nmi  
2 Left-Turn 60.0000 deg 0.7300  
3 Straight 4.0000 nmi  
31-TGO-TGO31-0  
1 Straight 1.0400 nmi  
2 Right-Turn 180.0000 deg 0.7300  
3 Straight 1.5400 nmi  
4 Right-Turn 180.0000 deg 0.7300  
5 Straight 0.5000 nmi

AIRCRAFT GROUP ASSIGNMENTS

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STUDY AIRPLANES

737 Standard data  
BEC58P Standard data  
CNA172 Standard data  
CNA500 Standard data  
GII Standard data  
LEAR25 Standard data  
LEAR35 Standard data

STUDY SUBSTITUTION AIRPLANES

USER-DEFINED NOISE CURVES

USER-DEFINED METRICS

USER-DEFINED PROFILE IDENTIFIERS

USER-DEFINED PROCEDURAL PROFILES

USER-DEFINED FIXED-POINT PROFILES

USER-DEFINED FLAP COEFFICIENTS

USER-DEFINED JET THRUST COEFFICIENTS

## Appendix D: FAA INM Model

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USER-DEFINED PROP THRUST COEFFICIENTS

USER-DEFINED GENERAL THRUST COEFFICIENTS

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STUDY MILITARY AIRPLANES

USER-DEFINED MILITARY NOISE CURVES

USER-DEFINED MILITARY PROFILE IDENTIFIERS

USER-DEFINED MILITARY FIXED-POINT PROFILES

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STUDY HELICOPTERS

USER-DEFINED HELICOPTER PROFILE IDENTIFIERS

USER-DEFINED HELICOPTER PROCEDURAL PROFILES

USER-DEFINED HELICOPTER NOISE CURVES

USER-DEFINED HELICOPTER DIRECTIVITY

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CASE FLIGHT OPERATIONS - [CLM - Base Case (2007)]

Acft	Op	Profile	Stg	Rwy	Track	Sub	Group	Day	Evening	Night
737	APP	STANDARD	1	08	AR08E	0	---	0.0007	0.0000	0.0000
737	APP	STANDARD	1	08	AR08W	0	---	0.0001	0.0000	0.0000
737	APP	STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	26	AR26E	0	---	0.0230	0.0000	0.0005
737	APP	STANDARD	1	26	AR26W	0	---	0.0012	0.0000	0.0000
737	APP	STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	08	DP08E	0	---	0.0039	0.0000	0.0001
737	DEP	STANDARD	1	08	DP08W	0	---	0.0003	0.0000	0.0000
737	DEP	STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000

**Appendix D: FAA INM Model**

737	DEP STANDARD	1	26	DP26E	0	---	0.0038	0.0000	0.0001
737	DEP STANDARD	1	26	DP26W	0	---	0.0002	0.0000	0.0000
737	DEP STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
737	DEP STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
BEC58P	APP STANDARD	1	08	AR08E	0	---	0.0842	0.0000	0.0017
BEC58P	APP STANDARD	1	08	AR08W	0	---	0.0130	0.0000	0.0003
BEC58P	APP STANDARD	1	13	AR13E	0	---	0.0069	0.0000	0.0001
BEC58P	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
BEC58P	APP STANDARD	1	26	AR26E	0	---	2.6249	0.0000	0.0536
BEC58P	APP STANDARD	1	26	AR26W	0	---	0.1382	0.0000	0.0028
BEC58P	APP STANDARD	1	31	AR31E	0	---	0.0004	0.0000	0.0000
BEC58P	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
BEC58P	DEP STANDARD	1	08	DP08E	0	---	0.4209	0.0000	0.0086
BEC58P	DEP STANDARD	1	08	DP08W	0	---	0.0324	0.0000	0.0007
BEC58P	DEP STANDARD	1	13	DP13E	0	---	0.0004	0.0000	0.0000
BEC58P	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
BEC58P	DEP STANDARD	1	26	DP26E	0	---	0.4291	0.0000	0.0088
BEC58P	DEP STANDARD	1	26	DP26W	0	---	0.0242	0.0000	0.0005
BEC58P	DEP STANDARD	1	31	DP31E	0	---	0.0432	0.0000	0.0009
BEC58P	DEP STANDARD	1	31	DP31W	0	---	0.0043	0.0000	0.0001
CNA172	APP STANDARD	1	08	AR08E	0	---	1.2981	0.0000	0.0265
CNA172	APP STANDARD	1	08	AR08W	0	---	0.1997	0.0000	0.0041
CNA172	APP STANDARD	1	13	AR13E	0	---	0.1065	0.0000	0.0022
CNA172	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
CNA172	APP STANDARD	1	26	AR26E	0	---	40.4736	0.0000	0.8260
CNA172	APP STANDARD	1	26	AR26W	0	---	2.1302	0.0000	0.0435
CNA172	APP STANDARD	1	31	AR31E	0	---	0.0067	0.0000	0.0001
CNA172	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
CNA172	DEP STANDARD	1	08	DP08E	0	---	6.4904	0.0000	0.1325
CNA172	DEP STANDARD	1	08	DP08W	0	---	0.4993	0.0000	0.0102
CNA172	DEP STANDARD	1	13	DP13E	0	---	0.0067	0.0000	0.0001
CNA172	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
CNA172	DEP STANDARD	1	26	DP26E	0	---	6.6169	0.0000	0.1350
CNA172	DEP STANDARD	1	26	DP26W	0	---	0.3728	0.0000	0.0076
CNA172	DEP STANDARD	1	31	DP31E	0	---	0.6657	0.0000	0.0136
CNA172	DEP STANDARD	1	31	DP31W	0	---	0.0666	0.0000	0.0014
CNA500	APP STANDARD	1	08	AR08E	0	---	0.0040	0.0000	0.0001
CNA500	APP STANDARD	1	08	AR08W	0	---	0.0006	0.0000	0.0000
CNA500	APP STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1	26	AR26E	0	---	0.1335	0.0000	0.0027
CNA500	APP STANDARD	1	26	AR26W	0	---	0.0070	0.0000	0.0001

## Appendix D: FAA INM Model

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CNA500	APP STANDARD	1 31	AR31E	0 ---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1 31	AR31W	0 ---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1 08	DP08E	0 ---	0.0228	0.0000	0.0005
CNA500	DEP STANDARD	1 08	DP08W	0 ---	0.0018	0.0000	0.0000
CNA500	DEP STANDARD	1 13	DP13E	0 ---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1 13	DP13W	0 ---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1 26	DP26E	0 ---	0.0220	0.0000	0.0004
CNA500	DEP STANDARD	1 26	DP26W	0 ---	0.0012	0.0000	0.0000
CNA500	DEP STANDARD	1 31	DP31E	0 ---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1 31	DP31W	0 ---	0.0000	0.0000	0.0000
CNA500	TGO STANDARD	1 08	TGO08	0 ---	3.9359	0.0000	0.0398
CNA500	TGO STANDARD	1 13	TGO13	0 ---	1.0496	0.0000	0.0106
CNA500	TGO STANDARD	1 26	TGO26	0 ---	20.9913	0.0000	0.2120
CNA500	TGO STANDARD	1 31	TGO31	0 ---	0.2624	0.0000	0.0027
GII	APP STANDARD	1 08	AR08E	0 ---	0.0003	0.0000	0.0000
GII	APP STANDARD	1 08	AR08W	0 ---	0.0000	0.0000	0.0000
GII	APP STANDARD	1 13	AR13E	0 ---	0.0000	0.0000	0.0000
GII	APP STANDARD	1 13	AR13W	0 ---	0.0000	0.0000	0.0000
GII	APP STANDARD	1 26	AR26E	0 ---	0.0092	0.0000	0.0002
GII	APP STANDARD	1 26	AR26W	0 ---	0.0005	0.0000	0.0000
GII	APP STANDARD	1 31	AR31E	0 ---	0.0000	0.0000	0.0000
GII	APP STANDARD	1 31	AR31W	0 ---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1 08	DP08E	0 ---	0.0016	0.0000	0.0000
GII	DEP STANDARD	1 08	DP08W	0 ---	0.0001	0.0000	0.0000
GII	DEP STANDARD	1 13	DP13E	0 ---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1 13	DP13W	0 ---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1 26	DP26E	0 ---	0.0015	0.0000	0.0000
GII	DEP STANDARD	1 26	DP26W	0 ---	0.0001	0.0000	0.0000
GII	DEP STANDARD	1 31	DP31E	0 ---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1 31	DP31W	0 ---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1 08	AR08E	0 ---	0.0011	0.0000	0.0000
LEAR25	APP STANDARD	1 08	AR08W	0 ---	0.0002	0.0000	0.0000
LEAR25	APP STANDARD	1 13	AR13E	0 ---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1 13	AR13W	0 ---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1 26	AR26E	0 ---	0.0368	0.0000	0.0008
LEAR25	APP STANDARD	1 26	AR26W	0 ---	0.0019	0.0000	0.0000
LEAR25	APP STANDARD	1 31	AR31E	0 ---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1 31	AR31W	0 ---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1 08	DP08E	0 ---	0.0063	0.0000	0.0001
LEAR25	DEP STANDARD	1 08	DP08W	0 ---	0.0005	0.0000	0.0000
LEAR25	DEP STANDARD	1 13	DP13E	0 ---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1 13	DP13W	0 ---	0.0000	0.0000	0.0000

LEAR25	DEP STANDARD	1 26	DP26E	0 ---	0.0061	0.0000	0.0001
LEAR25	DEP STANDARD	1 26	DP26W	0 ---	0.0003	0.0000	0.0000
LEAR25	DEP STANDARD	1 31	DP31E	0 ---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1 31	DP31W	0 ---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1 08	AR08E	0 ---	0.0009	0.0000	0.0000
LEAR35	APP STANDARD	1 08	AR08W	0 ---	0.0001	0.0000	0.0000
LEAR35	APP STANDARD	1 13	AR13E	0 ---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1 13	AR13W	0 ---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1 26	AR26E	0 ---	0.0322	0.0000	0.0007
LEAR35	APP STANDARD	1 26	AR26W	0 ---	0.0017	0.0000	0.0000
LEAR35	APP STANDARD	1 31	AR31E	0 ---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1 31	AR31W	0 ---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1 08	DP08E	0 ---	0.0055	0.0000	0.0001
LEAR35	DEP STANDARD	1 08	DP08W	0 ---	0.0005	0.0000	0.0000
LEAR35	DEP STANDARD	1 13	DP13E	0 ---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1 13	DP13W	0 ---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1 26	DP26E	0 ---	0.0054	0.0000	0.0001
LEAR35	DEP STANDARD	1 26	DP26W	0 ---	0.0003	0.0000	0.0000
LEAR35	DEP STANDARD	1 31	DP31E	0 ---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1 31	DP31W	0 ---	0.0000	0.0000	0.0000
LEAR35	TGO STANDARD	1 08	TGO08	0 ---	0.1640	0.0000	0.0017
LEAR35	TGO STANDARD	1 13	TGO13	0 ---	0.0437	0.0000	0.0004
LEAR35	TGO STANDARD	1 26	TGO26	0 ---	0.8745	0.0000	0.0088
LEAR35	TGO STANDARD	1 31	TGO31	0 ---	0.0109	0.0000	0.0001

CASE RUNUP OPERATIONS - [CLM - Base Case (2007)]

SCENARIO RUN OPTIONS

Run Type : Single-Metric  
 NoiseMetric : DNL  
 Do Terrain : No Terrain  
 Do Contour : Recursive Grid  
 Refinement : 10  
 Tolerance : 0.10  
 Low Cutoff : 55.0  
 High Cutoff : 85.0  
 Ground Type : All-Soft-Ground  
 Do Population : No  
 Do Locations : No  
 Do Standard : No

## Appendix D: FAA INM Model

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Do Detailed : No

Compute System Metrics:

DNL : Yes

CNEL : No

LAEQ : No

LAEQD : No

LAEQN : No

SEL : No

LAMAX : No

TALA : No

NEF : No

WECPNL : No

EPNL : No

PNLTM : No

TAPNL : No

CEXP : No

LCMAX : No

TALC : No

### SCENARIO GRID DEFINITIONS

Name	Type	X(nmi)	Y(nmi)	Ang(deg)	DisI(nmi)	DisJ(nmi)	NI	NJ	Thrsh	dAmb	(hr)
CONTOUR	Contour	-8.0000	-8.0000	0.0	16.0000	16.0000	2	2	85.0	0.0	0.00

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INTENTIONALLY

LEFT

BLANK



## **FUTURE CASE – YEAR 2027**

INM 7.0 SCENARIO RUN INPUT REPORT 21-Sep-11 10:43

STUDY: G:\WORK\PORT ANGELES MASTER PLAN\INM\CLM\

Created : 27-Oct-09 11:40

Units : English

Airport : CLM

Description :

William R. Fairchild International Airport

SCENARIO: Y2027 with DT

Created : 27-Oct-09 11:47

Description :

Last Run : 27-Oct-09 14:09

Run Duration : 000:00:29

STUDY AIRPORT

Latitude : 48.120194 deg

Longitude : -123.499694 deg

Elevation : 291.0 ft

CASES RUN:

CASENAME: CLM - Future Case (2027)

Temperature : 58.0 F

Pressure : 29.92 in-Hg

AverageWind : 8.0 kt

ChangeNPD : No

STUDY RUNWAYS

08

Latitude : 48.121036 deg

Longitude : -123.511515 deg

Xcoord : -0.4752 nmi

Ycoord : 0.0506 nmi

Elevation : 283.8 ft

OtherEnd : 26

Length : 6347 ft

Gradient : 0.12 %  
TkoThresh : 0 ft  
AppThresh : 0 ft

CASENAME: CLM - Future Case (2027)

RwyWind : 8.0 kt  
13  
Latitude : 48.126566 deg  
Longitude : -123.504759 deg  
Xcoord : -0.2036 nmi  
Ycoord : 0.3826 nmi  
Elevation : 227.2 ft  
OtherEnd : 31  
Length : 3244 ft  
Gradient : 1.36 %  
TkoThresh : 0 ft  
AppThresh : 0 ft

CASENAME: CLM - Future Case (2027)

RwyWind : 8.0 kt  
26  
Latitude : 48.116656 deg  
Longitude : -123.486367 deg  
Xcoord : 0.5358 nmi  
Ycoord : -0.2124 nmi  
Elevation : 291.4 ft  
OtherEnd : 08  
Length : 6347 ft  
Gradient : -0.12 %  
TkoThresh : 0 ft  
AppThresh : 1344 ft

CASENAME: CLM - Future Case (2027)

RwyWind : 8.0 kt  
31  
Latitude : 48.119060 deg  
Longitude : -123.497632 deg  
Xcoord : 0.0829 nmi  
Ycoord : -0.0681 nmi  
Elevation : 271.3 ft  
OtherEnd : 13  
Length : 3244 ft

## Appendix D: FAA INM Model

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Gradient : -1.36 %

TkoThresh : 0 ft

AppThresh : 0 ft

CASENAME: CLM - Future Case (2027)

RwyWind : 8.0 kt

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### STUDY TRACKS

RwyId-OpType-TrkId	Sub	PctSub	TrkType	Delta(ft)
08-APP-AR08E	0	100.00	Vectors	0.0
08-APP-AR08W	0	100.00	Vectors	0.0
08-DEP-DP08E	0	100.00	Vectors	0.0
08-DEP-DP08W	0	100.00	Vectors	0.0
08-TGO-TGO08	0	100.00	Vectors	0.0
13-APP-AR13E	0	100.00	Vectors	0.0
13-APP-AR13W	0	100.00	Vectors	0.0
13-DEP-DP13E	0	100.00	Vectors	0.0
13-DEP-DP13W	0	100.00	Vectors	0.0
13-TGO-TGO13	0	100.00	Vectors	0.0
26-APP-AR26E	0	100.00	Vectors	0.0
26-APP-AR26W	0	100.00	Vectors	0.0
26-DEP-DP26E	0	100.00	Vectors	0.0
26-DEP-DP26W	0	100.00	Vectors	0.0
26-TGO-TGO26	0	100.00	Vectors	0.0

31-APP-AR31E  
 0 100.00 Vectors 0.0  
 31-APP-AR31W  
 0 100.00 Vectors 0.0  
 31-DEP-DP31E  
 0 100.00 Vectors 0.0  
 31-DEP-DP31W  
 0 100.00 Vectors 0.0  
 31-TGO-TGO31  
 0 100.00 Vectors 0.0

STUDY TRACK DETAIL

RwyId-OpType-TrkId-SubTrk	#	SegType	Dist/Angle	Radius(nmi)
08-APP-AR08E-0	1	Straight	4.0000 nmi	
	2	Left-Turn	171.0000 deg	0.7300
	3	Straight	0.6200 nmi	
08-APP-AR08W-0	1	Straight	4.0000 nmi	
08-DEP-DP08E-0	1	Straight	4.0000 nmi	
08-DEP-DP08W-0	1	Straight	1.5800 nmi	
	2	Left-Turn	171.0000 deg	0.7300
	3	Straight	4.0000 nmi	
08-TGO-TGO08-0	1	Straight	1.5802 nmi	
	2	Left-Turn	180.0000 deg	0.7300
	3	Straight	2.2020 nmi	
	4	Left-Turn	180.0000 deg	0.7300
	5	Straight	0.6218 nmi	
13-APP-AR13E-0	1	Straight	4.0000 nmi	
	2	Left-Turn	128.0000 deg	0.7300
13-APP-AR13W-0	1	Straight	4.0000 nmi	
	2	Right-Turn	60.0000 deg	0.7300
13-DEP-DP13E-0	1	Straight	0.5400 nmi	
	2	Left-Turn	43.0000 deg	0.7300
	3	Straight	4.0000 nmi	

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### 13-DEP-DP13W-0

- 1 Straight 0.5400 nmi
- 2 Right-Turn 120.0000 deg 0.7300
- 3 Straight 4.0000 nmi

### 13-TGO-TGO13-0

- 1 Straight 1.0400 nmi
- 2 Right-Turn 180.0000 deg 0.7300
- 3 Straight 1.5400 nmi
- 4 Right-Turn 180.0000 deg 0.7300
- 5 Straight 0.5000 nmi

### 26-APP-AR26E-0

- 1 Straight 4.0000 nmi

### 26-APP-AR26W-0

- 1 Straight 4.0000 nmi
- 2 Right-Turn 171.0000 deg 0.7300
- 3 Straight 0.7560 nmi

### 26-DEP-DP26E-0

- 1 Straight 1.6600 nmi
- 2 Right-Turn 171.0000 deg 0.7280
- 3 Straight 4.0000 nmi

### 26-DEP-DP26W-0

- 1 Straight 4.0000 nmi

### 26-TGO-TGO26-0

- 1 Straight 1.5802 nmi
- 2 Right-Turn 180.0000 deg 0.7300
- 3 Straight 2.2020 nmi
- 4 Right-Turn 180.0000 deg 0.7300
- 5 Straight 0.6218 nmi

### 31-APP-AR31E-0

- 1 Straight 4.0000 nmi
- 2 Right-Turn 43.0000 deg 0.7300

### 31-APP-AR31W-0

- 1 Straight 4.0000 nmi
- 2 Left-Turn 120.0000 deg 0.7300

### 31-DEP-DP31E-0

- 1 Straight 0.5400 nmi
- 2 Right-Turn 128.0000 deg 0.7300
- 3 Straight 4.0000 nmi

### 31-DEP-DP31W-0

- 1 Straight 0.5400 nmi
- 2 Left-Turn 60.0000 deg 0.7300
- 3 Straight 4.0000 nmi

31-TGO-TGO31-0

- 1 Straight 1.0400 nmi
- 2 Right-Turn 180.0000 deg 0.7300
- 3 Straight 1.5400 nmi
- 4 Right-Turn 180.0000 deg 0.7300
- 5 Straight 0.5000 nmi

AIRCRAFT GROUP ASSIGNMENTS

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STUDY AIRPLANES

- 737 Standard data
- BEC58P Standard data
- CNA172 Standard data
- CNA500 Standard data
- GII Standard data
- LEAR25 Standard data
- LEAR35 Standard data

STUDY SUBSTITUTION AIRPLANES

USER-DEFINED NOISE CURVES

USER-DEFINED METRICS

USER-DEFINED PROFILE IDENTIFIERS

USER-DEFINED PROCEDURAL PROFILES

USER-DEFINED FIXED-POINT PROFILES

USER-DEFINED FLAP COEFFICIENTS

USER-DEFINED JET THRUST COEFFICIENTS

USER-DEFINED PROP THRUST COEFFICIENTS

USER-DEFINED GENERAL THRUST COEFFICIENTS

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## Appendix D: FAA INM Model

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STUDY MILITARY AIRPLANES

USER-DEFINED MILITARY NOISE CURVES

USER-DEFINED MILITARY PROFILE IDENTIFIERS

USER-DEFINED MILITARY FIXED-POINT PROFILES

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STUDY HELICOPTERS

USER-DEFINED HELICOPTER PROFILE IDENTIFIERS

USER-DEFINED HELICOPTER PROCEDURAL PROFILES

USER-DEFINED HELICOPTER NOISE CURVES

USER-DEFINED HELICOPTER DIRECTIVITY

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CASE FLIGHT OPERATIONS - [CLM - Future Case (2027)]

Acft	Op	Profile	Stg	Rwy	Track	Sub	Group	Day	Evening	Night
737	APP	STANDARD	1	08	AR08E	0	---	0.0015	0.0000	0.0000
737	APP	STANDARD	1	08	AR08W	0	---	0.0002	0.0000	0.0000
737	APP	STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	26	AR26E	0	---	0.0493	0.0000	0.0010
737	APP	STANDARD	1	26	AR26W	0	---	0.0026	0.0000	0.0001
737	APP	STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
737	APP	STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	08	DP08E	0	---	0.0084	0.0000	0.0002
737	DEP	STANDARD	1	08	DP08W	0	---	0.0006	0.0000	0.0000
737	DEP	STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	26	DP26E	0	---	0.0081	0.0000	0.0002
737	DEP	STANDARD	1	26	DP26W	0	---	0.0005	0.0000	0.0000
737	DEP	STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
737	DEP	STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
BEC58P	APP	STANDARD	1	08	AR08E	0	---	0.0764	0.0000	0.0016
BEC58P	APP	STANDARD	1	08	AR08W	0	---	0.0118	0.0000	0.0002

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BEC58P	APP STANDARD	1	13	AR13E	0	---	0.0063	0.0000	0.0001
BEC58P	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
BEC58P	APP STANDARD	1	26	AR26E	0	---	2.3824	0.0000	0.0486
BEC58P	APP STANDARD	1	26	AR26W	0	---	0.1254	0.0000	0.0026
BEC58P	APP STANDARD	1	31	AR31E	0	---	0.0004	0.0000	0.0000
BEC58P	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
BEC58P	DEP STANDARD	1	08	DP08E	0	---	0.3820	0.0000	0.0078
BEC58P	DEP STANDARD	1	08	DP08W	0	---	0.0294	0.0000	0.0006
BEC58P	DEP STANDARD	1	13	DP13E	0	---	0.0004	0.0000	0.0000
BEC58P	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
BEC58P	DEP STANDARD	1	26	DP26E	0	---	0.3895	0.0000	0.0079
BEC58P	DEP STANDARD	1	26	DP26W	0	---	0.0219	0.0000	0.0004
BEC58P	DEP STANDARD	1	31	DP31E	0	---	0.0392	0.0000	0.0008
BEC58P	DEP STANDARD	1	31	DP31W	0	---	0.0039	0.0000	0.0001
CNA172	APP STANDARD	1	08	AR08E	0	---	1.4248	0.0000	0.0291
CNA172	APP STANDARD	1	08	AR08W	0	---	0.2192	0.0000	0.0045
CNA172	APP STANDARD	1	13	AR13E	0	---	0.1169	0.0000	0.0024
CNA172	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
CNA172	APP STANDARD	1	26	AR26E	0	---	44.4250	0.0000	0.9066
CNA172	APP STANDARD	1	26	AR26W	0	---	2.3382	0.0000	0.0477
CNA172	APP STANDARD	1	31	AR31E	0	---	0.0073	0.0000	0.0001
CNA172	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
CNA172	DEP STANDARD	1	08	DP08E	0	---	7.1241	0.0000	0.1454
CNA172	DEP STANDARD	1	08	DP08W	0	---	0.5480	0.0000	0.0112
CNA172	DEP STANDARD	1	13	DP13E	0	---	0.0073	0.0000	0.0001
CNA172	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
CNA172	DEP STANDARD	1	26	DP26E	0	---	7.2629	0.0000	0.1482
CNA172	DEP STANDARD	1	26	DP26W	0	---	0.4092	0.0000	0.0084
CNA172	DEP STANDARD	1	31	DP31E	0	---	0.7307	0.0000	0.0149
CNA172	DEP STANDARD	1	31	DP31W	0	---	0.0731	0.0000	0.0015
CNA500	APP STANDARD	1	08	AR08E	0	---	0.0877	0.0000	0.0018
CNA500	APP STANDARD	1	08	AR08W	0	---	0.0135	0.0000	0.0003
CNA500	APP STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1	26	AR26E	0	---	2.9039	0.0000	0.0593
CNA500	APP STANDARD	1	26	AR26W	0	---	0.1528	0.0000	0.0031
CNA500	APP STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
CNA500	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1	08	DP08E	0	---	0.4967	0.0000	0.0101
CNA500	DEP STANDARD	1	08	DP08W	0	---	0.0382	0.0000	0.0008
CNA500	DEP STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000



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CNA500	DEP STANDARD	1	26	DP26E	0	---	0.4787	0.0000	0.0098
CNA500	DEP STANDARD	1	26	DP26W	0	---	0.0270	0.0000	0.0006
CNA500	DEP STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
CNA500	DEP STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
CNA500	TGO STANDARD	1	08	TGO08	0	---	4.3085	0.0000	0.0435
CNA500	TGO STANDARD	1	13	TGO13	0	---	1.1489	0.0000	0.0116
CNA500	TGO STANDARD	1	26	TGO26	0	---	22.9788	0.0000	0.2321
CNA500	TGO STANDARD	1	31	TGO31	0	---	0.2872	0.0000	0.0029
GII	APP STANDARD	1	08	AR08E	0	---	0.0065	0.0000	0.0001
GII	APP STANDARD	1	08	AR08W	0	---	0.0010	0.0000	0.0000
GII	APP STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
GII	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
GII	APP STANDARD	1	26	AR26E	0	---	0.2137	0.0000	0.0044
GII	APP STANDARD	1	26	AR26W	0	---	0.0112	0.0000	0.0002
GII	APP STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
GII	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1	08	DP08E	0	---	0.0366	0.0000	0.0007
GII	DEP STANDARD	1	08	DP08W	0	---	0.0028	0.0000	0.0001
GII	DEP STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1	26	DP26E	0	---	0.0352	0.0000	0.0007
GII	DEP STANDARD	1	26	DP26W	0	---	0.0020	0.0000	0.0000
GII	DEP STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
GII	DEP STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1	08	AR08E	0	---	0.0289	0.0000	0.0006
LEAR25	APP STANDARD	1	08	AR08W	0	---	0.0045	0.0000	0.0001
LEAR25	APP STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1	26	AR26E	0	---	0.9588	0.0000	0.0196
LEAR25	APP STANDARD	1	26	AR26W	0	---	0.0505	0.0000	0.0010
LEAR25	APP STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
LEAR25	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1	08	DP08E	0	---	0.1640	0.0000	0.0033
LEAR25	DEP STANDARD	1	08	DP08W	0	---	0.0126	0.0000	0.0003
LEAR25	DEP STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1	26	DP26E	0	---	0.1581	0.0000	0.0032
LEAR25	DEP STANDARD	1	26	DP26W	0	---	0.0089	0.0000	0.0002
LEAR25	DEP STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
LEAR25	DEP STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1	08	AR08E	0	---	0.0282	0.0000	0.0005
LEAR35	APP STANDARD	1	08	AR08W	0	---	0.0043	0.0000	0.0001

LEAR35	APP STANDARD	1	13	AR13E	0	---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1	13	AR13W	0	---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1	26	AR26E	0	---	0.9314	0.0000	0.0191
LEAR35	APP STANDARD	1	26	AR26W	0	---	0.0490	0.0000	0.0010
LEAR35	APP STANDARD	1	31	AR31E	0	---	0.0000	0.0000	0.0000
LEAR35	APP STANDARD	1	31	AR31W	0	---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1	08	DP08E	0	---	0.1593	0.0000	0.0032
LEAR35	DEP STANDARD	1	08	DP08W	0	---	0.0122	0.0000	0.0002
LEAR35	DEP STANDARD	1	13	DP13E	0	---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1	13	DP13W	0	---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1	26	DP26E	0	---	0.1535	0.0000	0.0031
LEAR35	DEP STANDARD	1	26	DP26W	0	---	0.0087	0.0000	0.0002
LEAR35	DEP STANDARD	1	31	DP31E	0	---	0.0000	0.0000	0.0000
LEAR35	DEP STANDARD	1	31	DP31W	0	---	0.0000	0.0000	0.0000
LEAR35	TGO STANDARD	1	08	TGO08	0	---	0.1794	0.0000	0.0018
LEAR35	TGO STANDARD	1	13	TGO13	0	---	0.0478	0.0000	0.0005
LEAR35	TGO STANDARD	1	26	TGO26	0	---	0.9569	0.0000	0.0097
LEAR35	TGO STANDARD	1	31	TGO31	0	---	0.0120	0.0000	0.0001

CASE RUNUP OPERATIONS - [CLM - Future Case (2027)]

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SCENARIO RUN OPTIONS

Run Type : Single-Metric  
 NoiseMetric : DNL  
 Do Terrain : No Terrain  
 Do Contour : Recursive Grid  
 Refinement : 10  
 Tolerance : 0.10  
 Low Cutoff : 55.0  
 High Cutoff : 85.0  
 Ground Type : All-Soft-Ground  
 Do Population : No  
 Do Locations : No  
 Do Standard : No  
 Do Detailed : No  
 Compute System Metrics:  
   DNL : Yes  
   CNEL : No  
   LAEQ : No  
   LAEQD : No

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LAEQN : No  
SEL : No  
LAMAX : No  
TALA : No  
NEF : No  
WECPNL : No  
EPNL : No  
PNLTM : No  
TAPNL : No  
CEXP : No  
LCMAX : No  
TALC : No

### SCENARIO GRID DEFINITIONS

Name	Type	X(nmi)	Y(nmi)	Ang(deg)	DisI(nmi)	DisJ(nmi)	NI	NJ	Thrsh	dAmb	(hr)
CONTOUR	Contour	-8.0000	-8.0000	0.0	16.0000	16.0000	2	2	85.0	0.0	0.00

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