







DEVELOPMENT GUIDELINES

for Federal Approvals and Land Use in the Vicinity of the Abbotsford International Airport (YXX)

This document has been prepared to help inform and guide developers and land owners of regulatory requirements concerning development and construction on private properties near the Abbotsford International Airport (YXX).

Background

From a regulatory perspective, the authority for the designation of and control of the use of lands located outside of aerodrome property rests with provincial/municipal levels of government. However, areas surrounding the Abbotsford International Airport which are covered under the Airport Zoning Regulation (AZR) are subject to Transport Canada and NAV Canada regulations as well. The AZR contains restrictive clauses that describe activities and uses that are restricted or prohibited and contains a legal description of the lands to which it applies.

General Development Requirements for land under the AZR

No person shall erect or construct on any land to which these regulations apply, any building, structure or object or any addition to any existing building, structure or object, the highest point of which will exceed in elevation at the location of that point, any

- a) approach surface;
- b) outer surface; or
- c) transitional surface.

How to Develop on land in the AZR

- 1. The Developer / Owner shall submit to the City of Abbotsford Building Permits Division all necessary documentation and other requirements as to obtain a building permit for the work in question.
- If a development lies within the areas as defined on the COA drawing M-500 (see Appendix A) and/or the legal zoning restrictions identify a requirement, the developer will seek approvals directly from both NAV CANADA and Transport Canada. (It is recommended that this process is performed in parallel with #1 above)
 - a) Transport Canada: must assess land use proposals as there may be restrictions and / or prohibitions contained in a zoning regulation that may limit the height of structures as well as uses that may cause interference with signals or communications to/from aircraft.
 - **NOTE:** Transport Canada has separate Aeronautical Assessment Form that must be submitted *prior to* development.
 - b) **NAV CANADA:** must assess and approve all proposals for land use near airports and air navigation infrastructure before construction begins. Processing times vary, however NAV CANADA attempts to respond within 8 to 12 weeks of receiving a complete proposal. **NOTE:** NAV Canada has separate Land Use Proposal Form that must be filled out *prior to* development.



3. The City of Abbotsford will release the COA Building permit once a copy of the Transport Canada and NAV CANADA approvals are presented in order to ensure that the project has been vetted through both agencies and requirements are understood and accepted by all parties.

The latest versions of the forms can be found at the blow links. Samples are included in Appendix B and C.

Transport Canada - Aeronautical Assessment Form for Obstacle Evaluation

NAV CANADA – Land Use Submission form to assess and approve proposals for land use near YXX before construction begins.

For more Information

There are private aviation surveying and consultancy firms available to assist developers and owners in this process. The City of Abbotsford recommends seeking professional support in the approval process; however it is not a requirement. A list of consultants is included as Appendix D.

Related Articles:

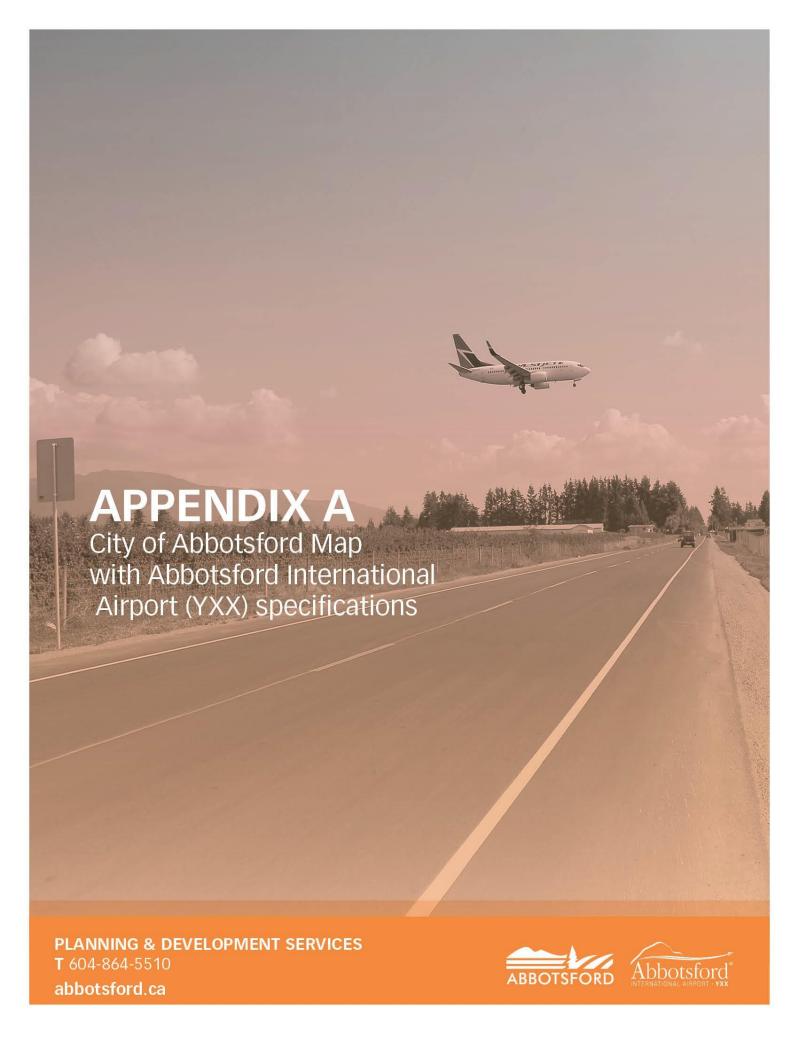
Abbotsford Airport Zoning Regulations SOR/83-253

<u>Transport Canada – TP1247E - Land Use in the Vicinity of Aerodromes</u>

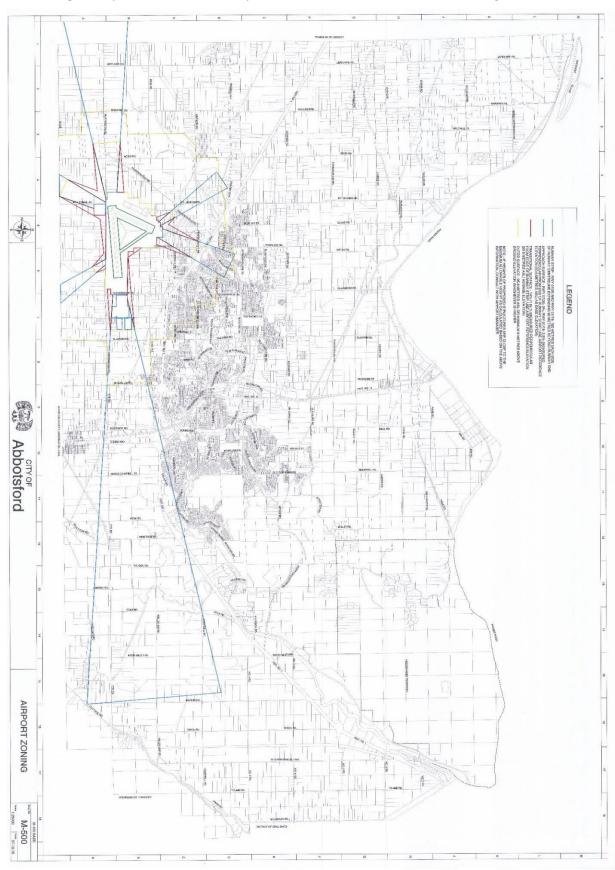
<u>Transport Canada – Advisory Circular (AC) No. 602-003</u>

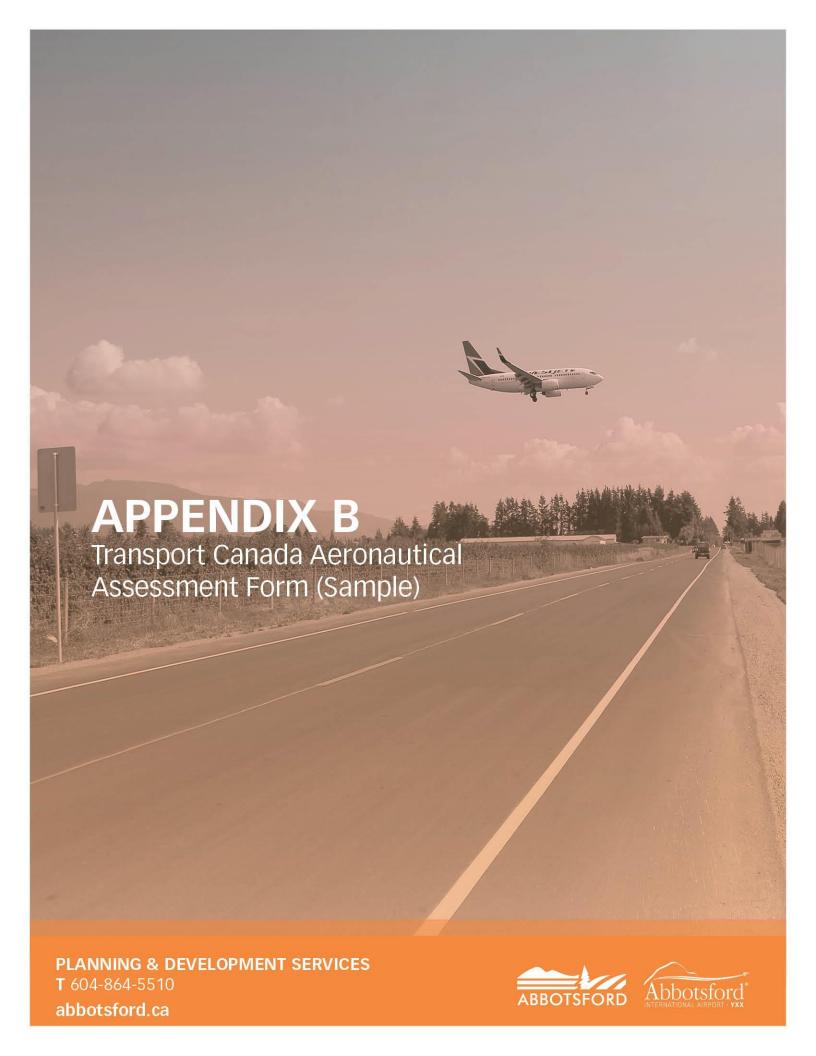
NAV CANADA – Aeronautical Information Management Proponent Education Package: Land Use Proposal Guidelines





For a larger map, or to view online, please visit **abbotsford.ca/development**







Transports Canada

AERONAUTICAL ASSESSMENT FORM for obstacle notice and assessment

Transport Canada number	
'	
Applicant number	

Owner (company name)								
City		Provinc	ce/Territory		Postal code (A1A 1A1)			
Telephone number (999-999-9999)	Email Address	<u> </u>						
Applicant (company name)								
Programme to the state of the s								
City		Provinc	ce/State		Postal code (A1A 1A1)			
Telephone number (999-999-9999)	Email Address	1			1			
Geographic Coordinates NAD	83 NAD27	WGS84	N Latitude	deg	min sec			
For extensive structures submit geog windturbines, transmission lines, buil		ates separately (e.g.	W Longitude	deg	min sec			
HEIGHTS		Feet	Metres	Structure alone	Structure with an addition			
A Ground Elevation (AMSL)				↑	↑ ↑ B			
B Height of an addition to a structu	re			c	c +			
C Total structure height including E	3 (AGL)			i II	i l			
Overall height (A plus C) (AMSL))			A +	A —			
Is the location on lands affected by A	irport Zoning R	Regulations (AZRs)?	O Yes O No					
Where the object is on lands affected	l by AZRs , a lega	al survey attesting con	formance is required.					
Nearest Aerodrome			Have you conta	cted the aerodrome?				
	◯ Yes ◯ No							
Description of Project (or attached)								
Notice of			Duration					
	e to existing stru	ıcture	Permanen	t Temp	orary			
9 9	n (yyyy-mm-dd):		То (уууу-		•			
Applicant Name				Telephone (99	9-999-9999) Date (yyyy-mm-dd)			
TRANSPORT CANADA ASSESSME	ENT (Transport	Canada use only)						
Marking and lighting required (as per	Standard 621)							
☐ Night Protection ☐ Day Protection ☐ Temporary Lighting ☐ No protection required								
Completion of this form does not con	stitute authorizat	tion for construction po	or replace other appro	vals or permits				
Transport Canada Civil Aviation Insp		astrior soristi dottori fic	. Topiaco otrici appio	valo or portilito.	Date (yyyy-mm-dd)			

Note 1: This assessment expires 18 months from the date of assessment unless extended, revised, or terminated by the issuing office. Note 2: If there is a change to the intended installation, a new submittal is required.



INSTRUCTIONS FOR COMPLETING FORM

<u>Submittal:</u> An Aeronautical Assessment Form (AAF) is submitted, If requested by Transport Canada or if there is intent for installation of the following types of construction or alteration, including any appurtenance of more than 12m in height:

- (a) of an overall height that exceeds 90 m AGL at the site;
- (b) of a height that exceeds an airport OIS (obstacle identification surface) or OLS (obstacle limitation surface) as specified in *Aerodrome Standards and Recommended Practices TP312*;
- (c) for aerodromes (including airports), of a height that exceeds an imaginary surface extending outward and upward at a slope of 2%, from the nearest point of the nearest runway for a horizontal distance of 4500 m and thereafter exceeds a 90m height out to 6km;
- (d) for water aerodromes, as (c) except a slope of 4% with the start of the imaginary surface taken as the GPS location published in the Canada Water Aerodromes Supplement (CWAS);
- (e) for a heliport, of a height that exceeds an imaginary surface extending outward and upward at a slope of 4%, from the nearest point of the nearest landing and takeoff area, for a horizontal distance of 2250 m and thereafter exceeds a 90 m height out to 6 km;
- (f) for catenaries and similar crossings (e.g. bridges), of a height such that any portion of the object exceeds 60 m AGL above the crossed river or valley bottom; or
- (g) on lands affected by an Airport Zoning Regulation (AZR) a legal land survey is required with the submittal proving conformance to the AZR.

Completed applications are to be forwarded to the applicable Transport Canada Regional office listed in Standard 621, Appendix A.

Nav Canada: A separate submittal is made to NAV CANADA. Refer NAV CANADA Land Use Program website http://www.navcanada.ca/EN/products-and-services/Pages/land-use-program.aspx

Note: Transport Canada and NAV CANADA Land Use are notified, if the proposed construction does not take place.

<u>Geographic Coordinates</u>: Provide GPS coordinates [in degrees, minutes and seconds] of the object. For extensive objects (e.g. windfarms), provide a separate listing of GPS coordinates for each element of the object (e.g. each windturbine). For buildings, provide coordinates for each corner, and coordinates of the dominant structure on the roof.

Heights: Provide height of the ground elevation Above Mean Sea Level (AMSL), the total structure height Above Ground Level (AGL) and the combined overall height AMSL. For extensive obstacles composed of several objects, provide a separate listing of heights corresponding to GPS coordinates.

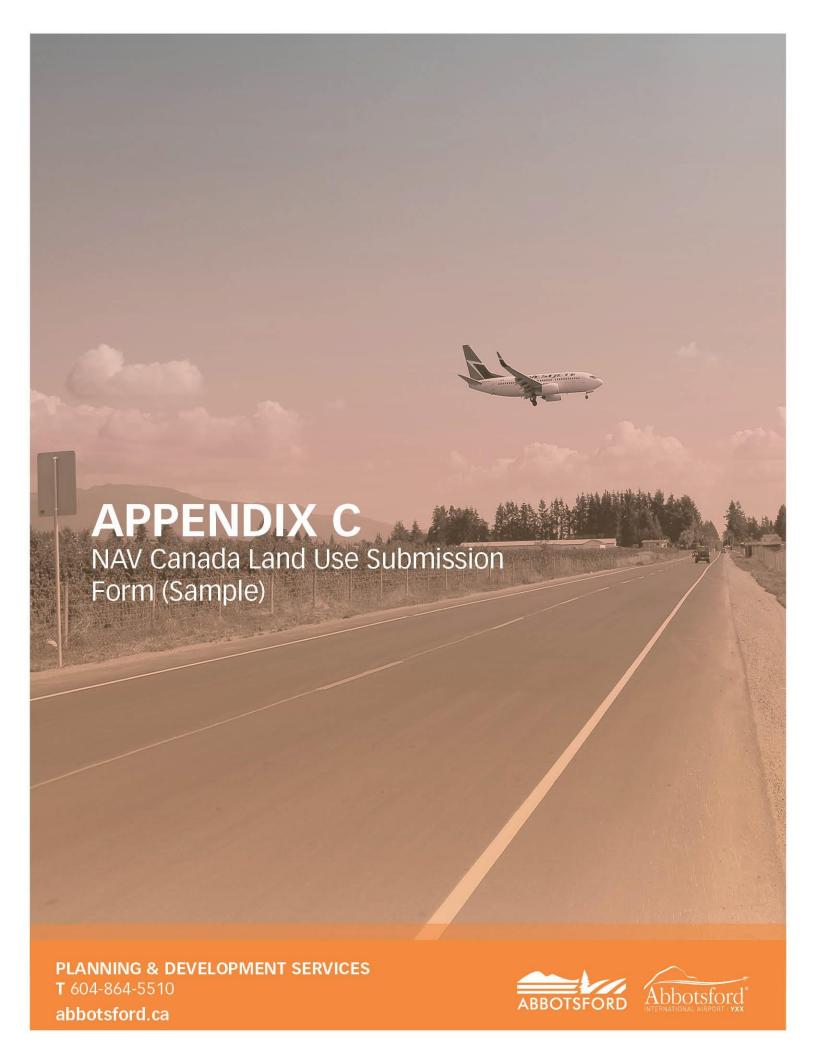
Description of Project:

- (a) Indicate the type of structure. (e.g. antenna, crane, building, power line, landfill, water tank, wind farm, moored balloon, kite, catenary/cable crossing, etc.)
- (b) For catenaries [e.g. electrical power transmission line crossings], include a drawing of the configuration of the wires and the supporting structures with their heights. Indicate the placement of marking/lighting [if used] on the wires.
- (c) For existing structures, explain the reason for notifying Transport Canada (e.g. corrections, request for new assessment, etc.).
- (d) If the object is on lands affected by Airport Zoning Regulations (AZRs), provide a legal land survey indicating conformance to AZR surfaces.
- (e) For a wind farm, include a spreadsheet with individual turbine identification numbers [ID], geographic coordinates [in minutes, degrees and seconds], ground elevation AMSL and the overall height of the object AGL. Identify those windturbines which will have lighting.
- (f) Indicate what obstacle <u>marking</u>, <u>lighting</u> and <u>monitoring</u> will be applied. It is the responsibility of the owner to apply the appropriate lighting/marking/monitoring in accordance with Standard 621.

<u>Nearest Aerodrome:</u> Identify the nearest aerodrome. Certified / registered land aerodromes/heliports are contained in the Canada Flight Supplement (CFS) and certified / registered water aerodromes in the Canada Water Aerodrome Supplement (CWAS); both available directly from NAV CANADA.

This form does not constitute authority for construction. Nor does this form replace any approvals, permits or assessments required by NAV CANADA, Industry Canada, other Federal Government departments, Provincial or Municipal landuse authorities or any other agency from which approval/assessment is required.





Land Use Program

Aviation safety may preclude certain land uses near airports or air navigation installations, regardless of whether other permits have been obtained.

NAV CANADA must assess all proposals for land use near airports and air navigation infrastructure before construction begins to ensure that air navigation system safety and efficiency are not compromised by proposed land development.

As soon as you start conceptualizing or planning a project, contact Land Use to test your idea. Consulting with Land Use often reveals impacts not easily detected before digging begins. These impacts may relate to aviation-specific regulations, operations, and safety standards that need to be considered.

Examples of Land Use Considerations







Development of New Flight Paths
(Subject to Airspace Change
Communications and Consultations
Protocol)



Electronic Interference with ANS Equipment



Resolution of Light Pollution Issues

Selecting the Correct Submission Form

Are you planning a construction project on airport premises or are you making major changes to airport infrastructure? For example, are you developing parts of airport property into commercially used areas? Use the Airport Submission Form.

Are you submitting a land use form for one or multiple cranes?

Use the Crane Submission Form.

For all other land use proposals:

Use the General Submission Form.

Detailed guidance and more information can be found in the Detailed Land Use Proposal Guidelines.

Please send completed Land Use Proposal Submission Package by email to landuse@navcanada.ca.

Processing Times

Processing times vary as they are dependent on the complete and accurate submission of the respective form and the complexity of the project. Usually, NAV CANADA attempts to respond within 8 to 12 weeks.

Should you be planning a project in or around an airport, please be aware these times can go up to 12 to 18 months pending necessary mitigations. Let us know about your project as early in the planning process as possible.

Distribution

Specific information submitted to NAV CANADA's Land Use department (that is, coordinates, structure heights and owner's contact information) will be distributed externally.

These external stakeholders include, but are not limited to, Transport Canada, Aerodromes, NORAD, External Design Organizations (EDOs), Department of National Defence (DND), and Environment and Climate Change Canada (ECCC) for review of services for which they are responsible and maintain.

We recommend consulting:

- Transport Canada's Land Use in the Vicinity of Airports (TP 1247)
- ICAO's European Guidance Material on Managing Building Restricted Areas (EUR DOC 15)

Note

NAV CANADA's Land Use Office assesses the impact of a proposed physical structure as it may relate to the air navigation system.

This assessment does not affect or replace approvals or permits required by Transport Canada or any other federal government department or agency, provincial or municipal land-use authorities, or any other agency.

Issues regarding spectrum management should be directed to Innovation, Science and Economic Development Canada.

The Land Use assessment is not a permit to start or continue a construction project.

Once Construction Starts

It is imperative that you notify Land Use of your construction start date.

Should you have received Construction Notification Form(s) with your response letter, you are required to send completed form(s) to Land Use a minimum of ten days prior to the construction date to ensure sufficient time to implement potential changes.

After Construction Completion

Should you have received Construction Completion Notification Form(s) with your response letter, you are required to send completed form(s) to Land Use once the structure has been built.

Other

To maintain an up-to-date database, Land Use needs to be notified after a structure has been dismantled: Use the Notice of Removal Form or when a structure changes ownership:

Email landuse@navcanada.ca

Additional Forms and Information

To report multiple obstacles:
Use the Multiple Obstacle Template
For general inquiries, please refer to Transport Canada contacts

Contacts

For information about land use proposals, contact:

Land Use Office NAV CANADA 1601 Tom Roberts Road P.O. Box 9824, Station T Ottawa, ON K1G 6R2

landuse@navcanada.ca



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Land Use Proposal Submission Form – General

NAV CANADA file N°./ Ref N°	Т	ransport Canada F	File N° / Re	ef N°				
GENERAL INFORMATION								
Company/Owner Name:				Contact	Person:			
Address:				City:	Prov: Postal Code:) :
Tel:	Cell:	E	Email:	1		-	l	
Applicant:				Contact	Person:			
Address:				City:		Prov:	Postal Code	: :
Tel:	Cell:	E	Email:	-			l	
DETAILS OF PROPOSAL								
	nates, provide nd tower heig be submitted: 000 Topogra	e <u>up to</u> four (4) o ght, provide <u>up t</u> uphical map (<u>ht</u>	decimal post of four (4)	olaces of a so decimal pla olaces.gc.ca/site/e	aces. english/topo	orama/index.html) o per or digital survey		
Project Identification: Street Address, etc.: Province: Degrees Minutes Seconds Degrees Minutes Seconds Geographic Coordinates of Site in NAD 83: Lat. N / Long. W / / For submissions containing more than one set of coordinates, please complete the Multiple Obstacle Template and return in Excel format.						Seconds		
Type of Structure:	, taroo, triiia	Tamo, Bana		lew Structur				
Structure alone	Structure \	with an addition	n A	A . Ground Elevation (Above Sea Level) ☐ft ☐r				
↑	↑ ♦ B		В	B. Structure Height Addition ☐ft ☐r				ft □m
¢		C. Structure Total Height (Above Ground Level) Include all appurtenances						
A	A —			otal Height	(Above Sea	a Level) (A + C)		□ft □m
Cranes to be used? Yes: Crane details shusing the Land Use ProCrane(s).	all be subm			pproximate	Duration of	f Construction:		
Proposed Construction Start Date: Select			If	If Temporary Structure, indicate Removal Date: Select				

		Select
Applicant/Representative Signature	Print Name	Date
A Third-Party Submission Form may be required	d for complex applications, fee applications	able.
Known co-location with/on NAV CANADA Site:	 -	
Comments:		

For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA website at www.navcanada.ca Aeronautical Information > Land Use Program.

NAV CANADA's land use evaluation is based on information known as of the date of this letter and is valid for a period of up to 18 months, subject to any legislative changes impacting land use submissions. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Innovation, Science and Economic Development Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA Engineering as deemed necessary.

Please submit by email to landuse@navcanada.ca



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Land Use Proposal Submission Form – Airport

NAV CANADA file N°./ Ref N°		Transport Canada File N° / Ref N°							
GENERAL INFORMATION									
Company/Owner Name:			Contac	Contact Person:					
Address:				City:	City: Prov: Postal Code:				
Tel:	Cell:		Email:					•	
Applicant:				Contac	t Persor	n:			
Address:				City:	City: Prov: Postal Code:			e:	
Tel:	Cell:		Email:					•	
Aerodrome:				Contac	t Person	:			
Tel:	Cell:		Email:						
DETAILS OF PROPOSAL									
 Please provide the data in the highest degree of accuracy available. For geographic coordinates, provide <u>up to</u> four (4) decimal places of a second. For ground elevation and tower height, provide <u>up to</u> four (4) decimal places. Additional document(s) to be submitted: Map: either 1:50,000 Topographical map (http://atlas.gc.ca/site/english/toporama/index.html) or a Google Earth map/kmz location of the proposed structure needs to be clearly marked; paper or digital surveys are always welcomed 									
Project Identification: Nearest Town:									
Street Address, etc.: Province:									
Degrees Minutes Seconds Degrees Minutes Seconds Geographic Coordinates of Site in NAD 83: Lat. N / / Long. W / / For submissions containing more than one set of coordinates, please complete the Multiple Obstacle Template and return in Excel format.						Seconds /			
Structure alone Structure with an addition A. Ground Elevation (Above Sea Level)							□ft □m		
T II		B. Structure Height Addition ☐ft ☐m							
с 	C. Structure Total Height (Above Ground Level) Include all appurtenances ☐ft ☐m					□ft □m			
A + /	A 			Total Height (Above Sea Level) (A + C)					□ft □m
Note: Please be aware that mitigation may be required for certain airport projects. A minimum of 18 months prior notice is required for all permanent Runway Threshold changes.									
Type of work:				Trenching:					
Runway Threshold Displa	cement:	□Yes □No	Runway Certification Change: Yes No						
Plan of Construction Operations (PCO) Available: Yes, please includeNo									

Proposed Construction Start Date: Select	Proposed Hours of Work: From: h	rs To: hrs
Approximate Duration of Construction:	If Temporary Structure, indicate Remova	l Date: Select
Comments and additional project details:		
Known co-location with/on NAV CANADA Site: ☐Yes ☐	No	
A Third-Party Submission Form may be required for complete.	lex applications, fee applicable.	
Applicant/Representative Signature	Print Name	Date
Application epiesetitative Signature	rint Name	Select
Acknowledgement of reading Detailed Land Use Propos	sal Guidelines (Submitter's Initials)	

For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA website at www.navcanada.ca > Aeronautical Information > Land Use Program.

NAV CANADA's land use evaluation is based on information known as of the date of this letter and is valid for a period of up to 18 months, subject to any legislative changes impacting land use submissions. Our assessment is limited to the impact of the proposed physical structure on the air navigation system and installations; it neither constitutes nor replaces any approvals or permits required by Transport Canada, other Federal Government departments, Provincial or Municipal land use authorities or any other agency from which approval is required. Innovation, Science and Economic Development Canada addresses any spectrum management issues that may arise from your proposal and consults with NAV CANADA Engineering as deemed necessary.

Please submit by email to commercialrelations@navcanada.ca



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Land Use Proposal Submission Form – Crane(s)

NAV CANADA file N°./ Ref N°	Transport Canada File N	N° / Ref N°				
GENERAL INFORMATION						
Structure - Company/Owner Name: Contact Person:						
Address:		City:	City: Prov: Postal Code:			
Tel: Cell:	Ema	il:			<u> </u>	
Crane Company/Applicant:		Contact	Person:			
Address:		City:	City: Prov: Postal Code:			
Tel: Cell:	Ema	il:				
DETAILS OF PROPOSAL						
 Please provide the data in the high For geographic coordinates, provided in the following provided in the high For ground elevation and tower high Additional document(s) to be submitted in the provided in the provided	vide <u>up to</u> four (4) decin neight, provide <u>up to</u> fo ed: graphical map (<u>http://</u> s	mal places of a se ur (4) decimal pla atlas.gc.ca/site/e	aces. english/topora			
Project Identification:		-	Nearest Tov	vn:		
Street Address, etc.: Province:						
Degrees Minutes Seconds Degrees Minutes Seconds Geographic Coordinates of Site in NAD 83: Lat. N / Long. W / / For submissions containing more than one set of coordinates, please complete the Multiple Obstacle Template and return in Excel format.						Seconds
New Structure?						
		A. Ground El	A. Ground Elevation (Above Sea Level) ☐ft			
F—E—→) _a	B. Structure Height (Above Ground Level)			□ft □m	
C			C. Maximum Crane Height (Above Ground Level)			□ft □m
□ D C B C		D. Maximum	D. Maximum Elevation (A + C)			□ft □m
		E. Swing Radius ☐ft ☐				
Note: For Luffing crane, we requ If installation and/or disma	•		of the operat	ting crane, this h	neight is requ	uired.
Proposed Construction Start Dat	uction Start Date: Select Times if Daily use: From hrs To: hrs					
Approximate Duration of Construction	on.	If Temporary Structure, indicate Removal Date: Select				

Note: If the plan is to erect the crane(s) multiple time (dates and times) in the Comments section below.	es during this project, please provide the	approximate schedule
Comments:		
	_	
Known co-location with/on NAV CANADA Site: Yes	No	
A Third-Party Submission Form may be required for com	ріех арріїсаціонѕ, тее арріїсавте.	
Applicant/Representative Signature	Print Name	Date
Application representative digitatale	Fillt Name	Select
Acknowledgement of reading Detailed Land Use Pro	posal Guidelines (Submitter's Initials)	

For a detailed description on NAV CANADA's requirements and additional information, refer to the NAV CANADA website at www.navcanada.ca > Aeronautical Information > Land Use Program.

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Please submit by email to landuse@navcanada.ca



Aviation Zoning Consultants

SKYLINE GEOMATICS

A Division of ELS Consulting Ltd Jeffrey Hay AScT. Suite 202 - 225 East 17th Avenue Vancouver, BC V5B 1A6

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SNC-LAVALIN – AVIATION INFRASTRUCTURE ENGINEERING

Contact us – SNC-Lavalin (snclavalin.com)

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harvie.buitelaar@hatch.com