



P.O. Box 119  
GJOA HAVEN, NU X0B 1J0  
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NUNAVUT IMALIRIYIN KATIMAYINGI  
NUNAVUT WATER BOARD  
OFFICE DES EAUX DU NUNAVUT

## WATER LICENCE APPLICATION FORM

Application for: (check one)

New       Renewal       Amendment       Assignment       Cancellation

**LICENCE NO:**

(for NWB use only)

<p>1. NAME AND MAILING ADDRESS OF APPLICANT/LICENSEE</p> <p><u>Department of National Defence</u> <u>1 Canadian Air Division</u> <u>A4 Construction Engineering</u> <u>PO Box 17000 Stn Forces</u> <u>Winnipeg, MB</u> <u>R3J 3Y5</u></p> <p>Phone: <u>204-833-2500</u> Fax: <u>204-833-2566</u> e-mail: <u>Kenneth.Simonite@forces.gc.ca</u></p>	<p>2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)</p> <p><u>Department of National Defence</u> <u>1 Canadian Air Division</u> <u>A4 Construction Engineering</u> <u>PO Box 17000 Stn Forces</u> <u>Winnipeg, MB</u> <u>R3J 3Y5</u></p> <p>Phone: <u>204-833-2500</u> Fax: <u>204-833-2566</u> e-mail: <u>Kenneth.Simonite@forces.gc.ca</u></p>
<p>3. LOCATION OF UNDERTAKING (describe and attach a topographical map, indicating the main components of the Undertaking)</p> <p><b>Iqaluit Locations:</b></p> <p>Latitude: (63°45' 48" N)      Longitude: (68° 34' 14" W) and Latitude: (63° 45' 4"N)      Longitude: (68° 32' 34" W)</p> <p><b>Rankin Inlet Locations:</b></p> <p>Latitude (62° 48' 50" N)      Longitude: (92° 07' 18" W) and Latitude: (62°48'54" N)      Longitude: (92°7'33" W) NTS Map Sheet No. _____ Scale: _____</p>	
<p>4. DESCRIPTION OF UNDERTAKING (attach plans and drawings)</p> <p>Aircraft Arrestor System Concrete Pads:</p> <p><b>BACKGROUND:</b></p> <p>Aircraft Arresting Systems (AAS) consist of cross-runway engaging devices with energy absorbers designed to safely arrest tail hook equipped aircraft during emergencies and tactical operations. The CF188 is the primary combat capability aircraft of the Canadian Air Force and Canada's only means of exercising active surveillance and control over unwanted activities in domestic and international</p>	



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**2. ADDRESS OF CORPORATE OFFICE IN CANADA (if applicable)**

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Winnipeg, MB  
R3J 3Y5

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Fax: 204-833-2566  
e-mail: Kenneth.Simonite@forces.gc.ca

**3. LOCATION OF UNDERTAKING** (describe and attach a topographical map, indicating the main components of the Undertaking)

**Iqaluit Locations:**

Latitude: (63°45' 48" N)      Longitude: (68° 34' 14" W)  
and Latitude: (63° 45' 4"N)      Longitude: (68° 32' 34" W)

**Rankin Inlet Locations:**

Latitude (62° 48' 50" N)      Longitude: (92° 07' 18" W) and  
Latitude: (62°48'54" N)      Longitude: (92°7'33" W)  
NTS Map Sheet No: \_\_\_\_\_ Scale: \_\_\_\_\_

**4. DESCRIPTION OF UNDERTAKING** (attach plans and drawings)

Aircraft Arrestor System Concrete Pads:

**BACKGROUND:**

Aircraft Arresting Systems (AAS) consist of cross-runway engaging devices with energy absorbers designed to safely arrest tail hook equipped aircraft during emergencies and tactical operations. The CF188 is the primary combat capability aircraft of the Canadian Air Force and Canada's only means of exercising active surveillance and control over unwanted activities in domestic and international

airspace.

The requirement to maintain AAS on Air Force bases is specified in the Aircraft Operating Instructions C-12-188-NFM/MC-001: "the compulsory use of AAS is required for certain aircraft emergencies such as loss of directional control, planning link failures, brake problems and blown tires on take off and landing." AAS are also required during training by Canadian and foreign Air Forces towards North Atlantic Treaty Organization (NATO)/North American Aerospace Defense (NORAD) combat ready status. Without the availability of this equipment, safe air operations could be compromised and could potentially result in the loss of life and aircraft. Canada is a signatory to the Air and Space Interoperability Council (ASIC) for Air Standards and Standardization Agreement (STANAGS) outlining provisions of AAS services. As a signatory, Canada is committed to meeting these standards.

#### UNDERTAKING:

AAS systems located at Canadian Forces Forward Operating Locations (FOLs) in Iqaluit, NU and Rankin Inlet, NU require the construction of four concrete pads (at each FOL). These pads will function as the foundation for Mobile Aircraft Arrestor Systems (MAAS). Each pad is to provide a suitable surface to bolt the MAAS into place with minimal tools and in minimum time. The pads shall be constructed parallel to the runway, approximately 100 – 150 feet (30 – 45 m) from the edge of the runway. The pads will be constructed of reinforced concrete and they will be substantially flush with the surrounding airfield terrain. Anchor nuts will be embedded in the concrete in designed locations to expedite the bolting of the MAAS and the nuts will be of such design that they will be sealable when not in use and flush with the concrete surface. The footprint of each pad will be 11.4 square meters.

**5. TYPE OF PRIMARY UNDERTAKING** (A supplementary questionnaire must be submitted with the application for undertakings listed in "bold")

<input type="checkbox"/> <b>Industrial</b>	<input type="checkbox"/> Agricultural
<input type="checkbox"/> <b>Mining and Milling</b> (includes exploration/drilling)	<input type="checkbox"/> <b>Conservation</b>
<input type="checkbox"/> <b>Municipal</b> (includes camps/lodges)	<input type="checkbox"/> Recreational
<input type="checkbox"/> Power	<input checked="" type="checkbox"/> <b>Miscellaneous</b> (describe below):

1. Airfield pad construction.

See Schedule II of *Northwest Territories Waters Regulations* for Description of Undertakings

## 6. WATER USE

To obtain water       Flood control  
 To cross a watercourse       To divert a watercourse  
 To modify the bed or bank of a watercourse       To alter the flow of, or store, water

Other (describe): To use water for the purpose of making concrete for the construction of concrete pads.

## 7. QUANTITY OF WATER INVOLVED (cubic metres per day including both quantity to be used and quality to be returned to source)

Water use     100m<sup>3</sup>/day or less  
 Greater than 100m<sup>3</sup>/day; if greater, indicate quantities to be used for each purpose (camp, drilling, etc.)

## Water returned to source

100 or less      m<sup>3</sup>/day

## 8. WASTE (for each type of waste describe: composition, quantity (cubic metres per day), methods of treatment and disposal, etc.)

<input type="checkbox"/> Sewage	<input type="checkbox"/> Waste oil
<input checked="" type="checkbox"/> Solid Waste	<input type="checkbox"/> Greywater
<input type="checkbox"/> Hazardous	<input type="checkbox"/> Sludges
<input checked="" type="checkbox"/> Bulky Items/Scrap Metal	<input type="checkbox"/> Other (describe):

1. Waste concrete and construction debris from the construction of the concrete pads.

## 9. OTHER PERSONS OR PROPERTIES AFFECTED BY THIS UNDERTAKING (give name, mailing address and location; attach if necessary) N/A

## Land Use Permit

DIAND       Yes       No      If no, date expected \_\_\_\_\_Regional Inuit Association       Yes       No      If no, date expected \_\_\_\_\_Commissioner       Yes       No      If no, date expected \_\_\_\_\_

## 10. PREDICTED ENVIRONMENTAL IMPACTS OF UNDERTAKING AND PROPOSED MITIGATION MEASURES (direct, indirect, cumulative impacts, etc.)

Minimal impacts from air emissions and noise from the operation of construction vehicles. Mitigation is to turn off vehicles when not in use. To protect terrain, vehicles will utilize established roads, runways and taxiways as much as possible. Terrain and vegetation will be restored to pre-construction conditions.

NIRB Screening       Yes       No      If no, date expected \_\_\_\_\_

## 11. INUIT WATER RIGHTS

Will the project or activity substantially affect the quality, quantity, or flow of water flowing through Inuit Owned Lands and the rights of Inuit under Article 20 of the Nunavut Land Claims Agreement?

No.

If yes, has the applicant entered into an agreement with the Designated Inuit organization to pay compensation for any loss or damage that may be caused by the alteration. If no compensation agreement has been made, how will compensation be determined?

**12. CONTRACTORS AND SUB-CONTRACTORS** (name, address and functions)  
To be determined.

**13. STUDIES UNDERTAKEN TO DATE** (list and attach copies of studies, reports, research, etc.)  
Not applicable.

**14. THE FOLLOWING DOCUMENTS MUST BE INCLUDED WITH THE APPLICATION FOR THE REGULATORY PROCESS TO BEGIN**

Supplementary Questionnaire (where applicable: see section 5)  Yes  No If no, date expected \_\_\_\_\_

Inuktitut and/or Inuinnaqtun/English Summary of Project  Yes  No If no, date expected \_\_\_\_\_

Application fee of \$30.00 (Payee Receiver General for Canada)  Yes  No If no, date expected Upon receipt of invoice

Water Use fee of \$30.00 (unless otherwise indicated in Section 9 of the *NWT Waters Regulations*; Payee Receiver General for Canada)

Yes  No If no, date expected Upon receipt of invoice

**15. PROPOSED TIME SCHEDULE** (unless otherwise indicated, the NWB will consider the application for a five (5) year term)

one year or less (or)  Multi Year

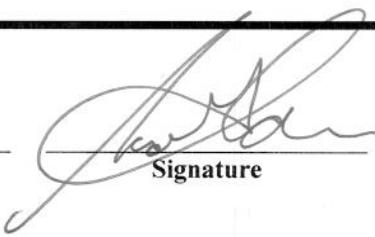
Start Date: No date set however it is anticipated that the work will occur in 2012, with completion in the same year. Completion Date: 2012

DL Scott Edwards

Name (Print)

A4 CE Environment & Hazardous Materials

Title (Print)



May 17, 2010

Signature

Date

For Nunavut Water Board office use only

**APPLICATION FEE** Amount: \$ \_\_\_\_\_ Pay ID No.: \_\_\_\_\_

**WATER USE DEPOSIT** Amount: \$ \_\_\_\_\_ Pay ID No.: \_\_\_\_\_