

**FAX TRANSMISSION**DATE: March 4/09

TO: NAME: Leslie Payette

DEPARTMENT: Nunavut Impact Review Board (NIRB)

FAX NUMBER: (867) 983-2574

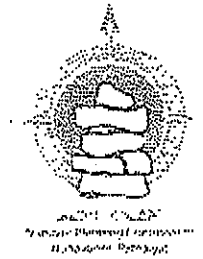
Number of pages to follow: 12Original to follow: Yes NoComments: Re: Walter Strapp Env Canada

FROM: Bobby Suluk,
Co-ordinator, Regional Planning
Nunavut Planning Commission
Arviat, Nunavut
bsuluk@npe.nunavut.ca

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Please note:

The documents accompanying this transmission may contain confidential information. If you receive this transmission in error, kindly notify us immediately and return the original to the sender as soon as possible.



March 4, 2009

Phyllis Beaulieu
Nunavut Water Board
P.O. Box 119
Gjoa Haven, NU
FAX (867) 360-6369

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Spencer Dewar
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Jennifer Wilman
Manager, Research Liaison
Nunavut Research Institute
P.O. Box 1720
Iqaluit, Nunavut X0A 0H0
Fax # (867) 979-7109

Dear Ms. Beaulieu, Ms. Payette, Mr. Dewar, Ms. Wilman,

Re: [NRI – Pan-Arctic Measurements and Arctic Regional Climate Model Simulations] (PANACMIP)

The NPC has completed its review of the above noted project proposal. It conforms to the North Baffin Regional Land Use Plan (NBRLUP), subject to the attached.

By this letter and additional enclosures, the NPC is forwarding the project proposal with this determination to NIRB for screening.

The applicant has undertaken to comply with the attached requirements. The authorizing agencies to which this letter is addressed are responsible under the *Nunavut Land Claims Agreement* to implement any of the attached requirements by incorporating the requirements directly, or otherwise ensuring that they must be met, in the terms and conditions of any authorizations issued.

My office would be pleased to discuss with these agencies how best to implement these requirements and to review any draft authorizations that the agencies wish to provide for that purpose.

This conformity determination applies only to the above noted applications as submitted. Therefore, the proponent must ensure other applications for a permit under this project proposal not listed above are forwarded to NPC for a conformity determination against the NBRUP, and please notify the NPC immediately if any material change to the project proposal is made before authorizations are issued.

Yours Truly,



Bobby Suluk
Regional Planning Coordinator

Cc: Walter Strapp, Environment Canada

02/18/2009 16:05 FAX 8678572243

NUNAVUT PLANNING.COM.

002/006

Application # NR1 - Pan-Arctic Measurements and Arctic Regional Climate Model Simulations (PANACMIP)

NUNAVUT PLANNING COMMISSION
APPLICATION TO DETERMINE CONFORMITY
WITH THE NORTH BAFFIN REGIONAL LAND USE PLAN

All applicants for a project proposal shall comply with the requirements listed below. The relevant sections of the plan are noted in each requirement.

GENERAL

2. **Environmental Protection: s3.3.11.8:** The applicant undertakes to prevent any new occurrences of pollution, garbage and contamination at the site of the development.

☒ Yes

☐ No

3. **Removal of Fuel Drums: s3.3.11.8:** The applicant undertakes to remove all drums safely from the site and dispose of the drums in a safe manner.

☒ Yes

☐ No

4. **New Site Restoration and Clean Up: s3.3.11.1 and Appendix C, s1:** The applicant undertakes to clean up the site and restore the site to its natural condition to the greatest extent possible.

☒ Yes

☐ No

5. **Low-Level Air Flights: Appendix C, s3:** Will the applicant avoid all low-level flights?

☐ Yes

☒ No

- i. If not, explain why such flights are or may be absolutely necessary.

One of the main objectives of the research is to measure the sea ice thickness of the vast region of the Arctic and to do this accurately, lowest level flight at about 200 ft offshore will be necessary, but only over sea ice area and not in the real coastal area.

- ii. If such flights are or may be absolutely necessary, will they avoid disturbance to people and wildlife?

☒ Yes

☐ No

Low level flights will be performed offshore over sea ice only and will avoid areas of protected wildlife and people.

- iii. If not, explain why it is not possible to avoid such disturbance.

10. **Hunting Restrictions:** s3.3.4.9: The applicant is informed of any special hunting restrictions that may apply to the area and will strictly enforce them at its mine sites and along transportation routes.

Yes

No

Not applicable

SCIENTIFIC RESEARCH

17. **Scientific Research:** s3.3.7.3: Does the project proposal involve scientific research?

☒ Yes

☐ No

If yes, will the applicant integrate all available and relevant local and traditional knowledge when conducting its research?

Yes

☒ No

18. **Consultation with Nunavut Research Institute:** s3.3.7.6: Has the applicant consulted with the Nunavut Research Institute about research topics that would benefit or interest local residents?

☒ Yes

☐ No

i. Describe the results of your consultation.

The Nunavut Research Institute (NRI) thinks the research on sea ice thickness and Arctic Meteorology is of benefit and will be of interest to the local residents as these are real issues that affect the local people. The NRI is providing advice to us and we have an on going dialogue as to how to best disseminate the results of our findings to the local people.

ii. If no, explain why.

19. Local Services and Local Employment: s3.3.7.4: Will the applicant rely on local services and employment where possible?

☐ Yes

☒ No

i. Describe the services retained and the people to be employed.

ii. If no, explain why it is not possible.

The project will be based at Alert and Eureka airports, so there is no opportunity to use local services and employment. However we will transit through Resolute airport and use local facilities/services there.

20. Communication on Scientific Research: s3.2.8 and s3.3.7.5:

The applicant will, at minimum, translate a summary of its work into Inuktitut and communicate with communities using language that is clear and non-technical. The results of all scientific research shall be made available to the affected communities as soon as possible.

☐ Yes☐ No

22. Code of Good Conduct for Land Users: Appendix C: The applicant undertakes to adhere to the code of Good Conduct at all times.

☐ Yes☐ No

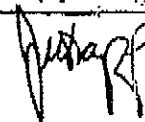
I, Walter Strapp (name of applicant), certify that the information I have given in this application is true and correct and hereby make the above undertakings which form part of my application for a project proposal within the meaning of the Nunavut Land Claims Agreement.

Date: February 20 2008

Signature of Applicant: Walter Strapp

Walter
Strapp

Digitally signed by Walter Strapp
DN: cn=Walter Strapp, o=CA,
ou=Department of Lands, mail=ca,
Physical and Geomatics Research
Section, email=wstrapp@nrc.ca
Date: 2008.02.24 18:34:48 -0500



SCIENTIFIC RESEARCH LICENCE APPLICATION LAND, FRESHWATER & MARINE BASED RESEARCH

NRI strongly recommends that applicants review the following documents prior to submitting an application: *Scientific Research Licensing Guidelines and Negotiating Research Relationships in Inuit Communities. A Guide for Researchers.*

For more information about the Nunavut Research Institute (NRI) please visit our web site www.nn.nu.ca

IMPORTANT

This application fulfills the requirements for the NIRB environmental screening.
Please be advised that your application will not be processed until the application form, project summary, and maps are received.

SECTION 1: APPLICANT INFORMATION

1a. Project Title Pan-Arctic Measurements and Arctic Regional Climate Model Simulations (PANARCMIP)

1b. Project Number

Please indicate if applicant has submitted any previous application(s) to NRI Yes No ☒ x
related to this project proposal?

If yes, please indicate the previous NRI licence number: _____

Please indicate if applicant has submitted any previous application(s) to NIRB Yes No ☒ x
related to this project proposal?

If yes, please indicate the previous NIRB project number(s): _____

2. Applicant's full name and mailing address:

<u>Walter Strapp and Andreas Herber (see 3 for address)</u>	Phone: <u>416 739 4617</u>
<u>Cloud Physics and Severe Weather Research Section</u>	Fax: <u>416 739 4211</u>
<u>Environment Canada, 4905 Dufferin Street, Toronto,</u>	Email: <u>Walter.strapp@ec.gc.ca</u>
<u>Ontario M3H5T4</u>	

3. Field Supervisor's name and mailing address:

<u>Andreas Herber</u>	Phone: _____
<u>Alfred Wegener Institute for Polar and Marine</u>	Fax: _____
<u>Research, P.O. Box 120161</u>	
<u>27151 Bremerhaven, Potsdam, Germany</u>	Email: <u>andreas.herber@awi.de</u>

4. Other Personnel list (name, position, affiliation)

<u>Peter Liu, Scientist, Environment</u>	<u>James B.R. Lee, pilot, Ketchikan</u>
<u>Canada</u>	<u>Airlines</u>
<u>Don McElroy, Scientist, Environment</u>	<u>Andrew S.W. Jenkins, pilot,</u>
<u>Canada</u>	<u>Ketchikan Airlines</u>
<u>Brian A. Borchert, pilot,</u>	<u>Christian H.A. Scientist, U. of</u>
<u>Enterprise Airlines</u>	<u>Alberta</u>
<u>Martin Gernand, Scientist, Alfred</u>	<u>Andreas Herber, Scientist, Alfred</u>
<u>Wegener Institute</u>	<u>Wegener Institute</u>
	<u>Manuel Bellmann, Scientist,</u>
	<u>Alfred Wegener Institute</u>

Robert S. Stone, scientist,
National Oceanic and atmospheric
Administration

SECTION 2: AUTHORIZATION NEEDED

1. Indicate all authorizations associated with the project proposal:

- | | |
|---|---|
| <input type="checkbox"/> Regional Inuit Association (RIA) | <input checked="" type="checkbox"/> Environment Canada (EC) |
| <input type="checkbox"/> Nunavut Water Board (NWB) | <input type="checkbox"/> Department of Environment (GN) |
| <input type="checkbox"/> Nunavut Planning Commission (NPC) | <input type="checkbox"/> Department of National Defense (DND) |
| <input type="checkbox"/> Department of Indian And Northern Development (DIAND) | <input type="checkbox"/> Hamlet |
| <input type="checkbox"/> Department of Fisheries and Oceans (DFO) | <input type="checkbox"/> Parks Canada (PC) |
| <input type="checkbox"/> Community Government & Services (CG&S) | <input type="checkbox"/> Canadian Wildlife Service (CWS) |
| <input type="checkbox"/> Nunavut Research Institute (NRI/GN) | <input checked="" type="checkbox"/> Other (please specify): |
| <input type="checkbox"/> Department of Culture, Language, Elders, and Youth (CLEY/GN) | University of Alberta, Canada; Alfred Wegener Institute, Germany. |
| <input type="checkbox"/> Canadian Launch Safety (CLS) | |

2. List the active permits, licences, or other rights related to the project proposal and their expiry date:

3. Have you applied for all authorizations required to conduct the project proposal activities?

☐ YES

☐ NO

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the activities related to the project proposal:

- | | |
|--|--|
| <input type="checkbox"/> Temporary camp (to be removed at end of field season) | <input type="checkbox"/> Soil testing |
| <input type="checkbox"/> Permanent camp (to remain for life of authorization) | <input type="checkbox"/> Soil disposal/ soil storage |
| <input type="checkbox"/> Construction of recreational or safety cabin | <input type="checkbox"/> Incineration of combustible wastes and removal of non-combustible wastes |
| <input type="checkbox"/> Temporary fuel storage (to be removed at end of field season) | <input type="checkbox"/> River/ stream/ lake crossing or work/ bridge |
| <input type="checkbox"/> Permanent fuel storage (to remain for life of authorization) | <input type="checkbox"/> Drainage alteration |
| <input type="checkbox"/> Placement of structures for life of permit (other than camp or cabin - i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by diamond drilling |
| <input type="checkbox"/> Placement of permanent structures (other than camp or cabin - i.e. scientific instruments) | <input type="checkbox"/> Geoscientific sampling by soil sampling |
| <input checked="" type="checkbox"/> Air surveys (i.e. geophysical, wildlife) | <input type="checkbox"/> Geoscientific sampling by trenching |
| <input type="checkbox"/> Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location | <input type="checkbox"/> Geoscientific sampling by borehole core |
| <input type="checkbox"/> Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, zodiac) | <input type="checkbox"/> Blasting |
| <input type="checkbox"/> Sewage or grey water disposal via sump | <input type="checkbox"/> Channeling |
| <input type="checkbox"/> Hazardous waste storage or disposal | <input type="checkbox"/> Excavation |
| <input type="checkbox"/> Solid waste disposal | <input type="checkbox"/> Hydrological testing |
| <input type="checkbox"/> Chemical storage | <input type="checkbox"/> Abandonment and restoration |
| <input type="checkbox"/> Explosives storage | <input type="checkbox"/> Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring) |
| | <input type="checkbox"/> Research |
| | <input type="checkbox"/> Ecological survey |
| | <input type="checkbox"/> Harvesting |
| | <input type="checkbox"/> Removal of vegetation for scientific purposes |
| | <input type="checkbox"/> Other: |

2. Personnel

Total No. of personnel on site = (A)	9	Total No. of days on-site = (B)	10	Total No. of Person days (A) × (B) = 90
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3. Timing

Period of operation:	April 16 2009	to	April 25 2009
Proposed term of authorization:	April 1 2009	to	April 30 2009

Please outline the phases of the proposed project (construction/ operation/ decommissioning) including the timing and scheduling of each phase.

Usage of Alert Airport April 16 2009 – April 20 2009 (estimated)

Usage of Eureka airport April 20 2009 to April 22 2009 (estimated)

Usage of Resolute airport

4. Location(s) of data collection:

Location Name	Region	Co-ordinates	NTS Map Sheet #	Land Status
	North Baffin, South Baffin, Kivalliq, Kitikmeot	Lat (degree / minute), Long (degree / minute)		Crown, Commissioners', Inuit Owned
Alert	North Baffin	82:31:04:N:62:16:50:W		
Eureka	North Baffin	79:59:41:N:85:48:48:W		
Resolute	North Baffin			

If the project proposal includes a **camp**, please provide the coordinates of the camp location

Lat (degree/minute) No camp Long (degree/minute)

NTS Map Sheet # (if different from above)

The Nunavut Impact Review Board may require additional location information in a subsequent Project Specific Information Requirement (PSIR) submission. This may take the form of a digital Geographic Information Systems (GIS) file.

SECTION 4: NON-TECHNICAL PROJECT PROPOSAL DESCRIPTION

Please attach a non-technical description of the project proposal, no more than 500 words, in English and Inuktitut (+Inuinnaqtun, if in the Kitikmeot). The project description should outline the following:

- Project Title
- Researcher's Name and Affiliation
- Project Location
- Timeframe
- Project Description
 - purpose
 - goals & objectives
 - method of transportation
 - any structures that will be erected (permanent / temporary)
 - restoration / abandonment plans
- Methodology
 - collection protocol

- collection mechanisms
- indicate why specific communities or individuals were selected for your research
- Data
 - short term & long term use of data
 - other uses of data
- Reporting
 - How will the research results be communicated to the individual participants, communities, regional and Nunavut organizations?
 - Will the research result in a publication? Yes

SECTION 5: MATERIAL USE

1. List equipment (including drills, pumps, aircrafts, vehicles etc.):

Equipment type and number	Size – dimensions	Proposed use
Basler DC-3 aircraft "POLAR-5"	LxHxW 20.66x5.2x29 m	Perform airborne science measurements

2. Detail fuel and hazardous material use:

Fuel	Number of Containers and Capacity of Containers	Total Amount of Fuel (in Litres)	Proposed Storage Methods
Diesel			
Gasoline			
Aviation fuel	101 drums	20200 litres	Stored in drums
Propane			
Other			
Hazardous Materials and Chemicals		Total Amount of Hazardous Materials and Chemicals (in Litres)	

3. Detail daily water consumption rates

Daily amount (in Litres)	Proposed water retrieval methods	Proposed water retrieval location

4. Have you applied for a Class A License with the Nunavut Water Board?

☐ YES☒ NO**SECTION 6: WASTE DISPOSAL AND TREATMENT METHODS****1. List the types of waste:**

Type of waste	Projected amount generated	Method of Disposal	Additional treatment procedures
Sewage (human waste)			
Greywater			
Combustible wastes			
Non-Combustible wastes			
Overburden (organic soil, waste material, tailings)			
Hazardous waste			
Other:			

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?☐ YES☒ NO**SECTION 7: COMMUNITY INVOLVEMENT & REGIONAL BENEFITS****1. List the community representatives that have been contacted and provide the minutes of the meetings if available:**

Community	Name	Organization	Date Contacted
PCSP	M Bergmann	Polar Continental Shelf Project	June 30 2008
Eureka station	John MacIver	Environment Canada	Nov 28 2008
Alert	Andrew Platt	Environment Canada	Aug 12 2008

2. How will the proposed project benefit Nunavut?

The project PANARCMIP will not provide local employment or training opportunities to Nunavut. Scientific measurements will ultimately increase understanding of global climate change in the Arctic providing important information affecting Nunavut. Scientific measurements will be carried out over the Arctic Ocean; Alert and Eureka Station will only be used as a base for the Polar-5 research aircraft and for accommodation of crew and scientists.

4. Describe and attach documentation regarding community support or concerns for the proposed project:

No community support has been solicited other than airport and accommodations, and no community concerns are known.

Aviation fuel, paid by the Environment Canada, will be provided by the Polar Continental Shelf Project.

For further information, please contact:

M. Bergmann

Director, Polar Continental Shelf Project

Directeur, Étude du plateau continental polaire

Natural Resources Canada/Ressources naturelles Canada

615 Booth Street, Room 487/ 615, rue Booth, pièce 487

Ottawa (Ontario) Canada K1A 0E9

tel.: 613-947-1601

fax/téléc.: 613 947-1611

email/courier: mbergman@nrcan.gc.ca

5. Is there a traditional knowledge component to this research project? If yes, please explain:

No

SECTION 8: GENERAL QUESTIONS

1. Do you give NRI permission to publish project information in the Nunavut Research Institute Annual Compendium of Research Undertaken in Nunavut?

☒ YES

☐ NO

2. In addition to the application form, applicants are required to submit additional information in an electronic format to the Manager, Research Liaison, jwilman@nac.nu.ca. Please check that the following have been submitted to NRI:

- ☒ Project Summary -in English (only) and Inuktitut (+Inuinnaqtun, if in the Kitikmeot)
- ☒ NTS Maps of the project

Applicant: Walter Strapp and Andreas Heber

Signature Walter Strapp and
Andreas Herber

Title Scientists

Date Dec 9 2008