

Stantec
NANISIVIK NAVAL FACILITY
PROJECT SPECIFIC INFORMATION REQUIREMENTS
Revision 3

Appendix G

Emergency Response Plan



Nanisivik Naval Facility

Emergency Response Plan
Revision 2

Prepared for:
Defence Construction Canada
350 Albert Street
Ottawa ON K1A 0K3

Prepared by:
Stantec Consulting Ltd.
400-1331 Clyde Road
Ottawa ON K2C 3G4

July 2013

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1.0 Introduction

Stantec Consulting Ltd. (Stantec) has prepared this Emergency Response Plan (the Plan) on behalf of the Department of National Defence (DND) and Defence Construction Canada (DCC). The Plan is intended to be a living document. DND proposes to construct and operate a deep-water docking and refuelling facility at Nanisivik, Nunavut (Nanisivik Naval Facility; the Project). The Project is on 43.7 hectares (ha) of Federal Crown land at approximate latitude 73°N and longitude 84°W, at the northwestern end of Baffin Island. DND/DCC are committed to eliminating and/or minimizing risk and harm to environmental and human health in the event of an emergency during all phases of the Project.

2.0 Purpose and Scope

The primary objective of this Emergency Response Plan is to ensure that the Nanisivik Naval Facility responds appropriately and has effective measures to respond to an emergency. As such, this Plan provides guidance and actions important for the appropriate response to various medical emergencies at Nanisivik, Nunavut. The Plan identifies key tasks, lists available resources, and provides procedures to respond to an emergency such that safety hazards are removed or reduced.

3.0 Potential Emergencies

The following is a list of some potential emergencies that could be encountered during construction and operation of the Nanisivik Naval Facility. Spill Contingency, Waste Management and Wildlife Encounters are discussed under separate cover.

- Adverse / Extreme weather events (e.g. blizzard or white-out)
- Fire
- First Aid / Medical Emergencies
- Vehicle Accidents
- Helicopter Accidents
- Vessel Grounding/Collision

4.0 Action Plan

In the case of all general emergencies the following shall apply.

4.1 EMERGENCY PREPAREDNESS

All Project/contractor vehicles will contain a list of emergency phone numbers, a two-way radio, bear spray and banger, a suitable fire-fighting kit, spill response kit and first aid kit. A list of detailed steps for securing a radio channel to talk directly to the responsible manager/contractor to obtain help and further instruction will also be included in every vehicle and person(s) leaving camp.

4.2 EMERGENCY NOTIFICATION

During all phases of the Project the responsible manager/contractor will utilize a sounding device to signal an emergency situation. For example, a bullhorn siren, a flare, or whistle could all apply given the particular situation.

A radio code will be used to isolate an uninterrupted radio channel for direct communication with the responsible manager/contractor and the emergency situation. If the emergency occurs within the camp site or at the wharf this step may not be necessary.

4.3 ADVERSE / EXTREME WEATHER EVENT

It is necessary to examine the methods of reducing environmental effects during adverse or extreme weather conditions. It is recognized that specific environmental mitigation is subjective and dependent upon specific conditions and the Project schedule.

Where adverse weather conditions and activities have the potential to cause, or are causing wind erosion, water erosion, excessive rutting, and/or the potential for harmful alteration, disruption or destruction (HADD) of fish and fish habitat, a "stop work" decision will be determined by the responsible manager/contractor until weather conditions abate or effective mitigation procedures have been implemented. The following represents a brief list of mitigative measures that may be applied should it be safe to do so:

- Tarp or tie-down items that might become airborne during high winds
- Stop any earth works as they may cause unnecessary erosion during heavy precipitation events
- Move heavy equipment to solid ground to avoid potential sinking during heavy precipitation events
- Seek shelter if conditions do not improve

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4.4 FIRE

The following mitigation measures will be implemented in the event of a fire:

1. Sound alarm to notify camp/personnel and follow emergency evacuation procedures.
2. Commence fire suppression measures immediately upon detection of fire provided that fire conditions allow personnel to safely proceed.
3. Report location of fire as well as size of fire and wind direction, to the responsible manager/contractor.
4. The responsible manager/contractor will report wild fires and relevant information to the applicable authorities.
5. The responsible manager/contractor will deploy fire-fighting equipment and crew to clear fire breaks or extinguish the fire directly if possible. All equipment and personnel shall be made available to control the fire. Effort of fire control will be limited, if warranted, due to safety issues and will take into consideration fire conditions, safety, fitness of personnel and equipment availability.
6. The responsible manager/contractor will inspect the fire site as soon as possible and take charge of directing suppression measures.
7. During construction, the contractor will be responsible for ensuring that the camp site is self-sufficient for fire suppression. Fire suppression measures shall continue until the fire is extinguished.
8. Moveable material, particularly explosive or flammable materials, vehicles, etc. will be promptly moved to a safe location whenever there is a possibility of being endangered by fire.
9. The responsible manager/contractor will ensure that all burning embers are extinguished and will monitor the burn area for smouldering material. Infrared scanning equipment will be employed to detect any hot spots (if applicable).

4.5 FIRST AID / MEDICAL EMERGENCIES

Emergencies requiring first aid can vary from mild to extreme. It is recommended that a contingency plan address all levels of accidents that may occur requiring various needs of first aid. All employees during construction and operation will have standard first aid response training and access to first aid supplies. A paramedic will be available on-site during construction. Medical personnel will be available on ships using the site during operation.

Spinal boards shall be kept at camps and near the helicopter landing area.

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Rescue buoys, life preservers and throw-ropes will be mounted at various locations around the wharf in case of potential drowning.

Any person who discovers an individual in need of first aid or emergency medical attention will initiate a response action that will follow a general procedure:

- Avoid danger to yourself, others and the environment
- Deliver first aid appropriate to the level of emergency, if safe to do so
- Report the type and location of the emergency to a supervisor and communicate situation to all other individuals on-site
- Evacuate the victim to shelter, if appropriate, until transport to medical assistance can be facilitated. The level of medical emergency may necessitate road and/or air transport to a southern hospital

Emergency situations at the Nanisivik Naval Facility may be exacerbated by extreme weather conditions; therefore an emergency supply of food and water should be kept on-site.

4.6 VEHICLE ACCIDENTS

There will be some vehicle traffic during construction and operation of the Nanisivik Naval Facility. Vehicle accidents may include single or multi vehicle incidents. The road from Arctic Bay will be used to commute between the facility and Arctic Bay and also for trucks transporting aggregates from the Quarry. Midsized to large trucks will be utilized for these activities. Radios will be used and call outs for incoming and outgoing traffic will be mandated. Speed limits will be strictly enforced. Vehicles will carry first aid and spill kits as well as an emergency supply of food and water for potential break-down events or becoming stranded due to vehicle break downs. Should injuries be sustained in a vehicle accident, the first responder to that event will follow the general procedure of a response action as discussed in section 4.5.

4.7 HELICOPTER ACCIDENTS

Response to helicopter incidents or accidents at the Nanisivik Naval Facility will follow the procedures of the Department of National Defence/Canadian Forces (DND/CF) Flight Safety (FS) Program, as stated in A-GA-135-001/AA 001, "Flight Safety for the Canadian Forces". Should injuries be sustained in a helicopter accident, the first responder to that event will follow the general procedure of a response action as discussed in section 4.5.

4.8 VESSEL GROUNDING / COLLISION

Individual ships will have their own emergency plan and standard operating procedures in the case of ship grounding or collision according to the International Safety Management Code (ISM) Code for the safe operation of ships and for pollution prevention.

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4.9 EVACUATION AND DESIGNATED ASSEMBLY POINTS

Should an emergency situation escalate to a level beyond the ability of personnel to manage, an evacuation of the area may be required.

The responsible manager/contractor and all personnel will be instructed on emergency evacuation procedures and designated assembly points during initial site training. The designated emergency assembly points will be determined by the responsible manager/contractor and the emergent situation. All personnel are expected to know the designated assembly points for their respective areas. Any other personnel (i.e., visitors) on-site must be briefed on evacuation procedures and designated assembly locations prior to entry.

Maps showing evacuation routes and designated assembly locations will be placed in conspicuous locations (i.e., facilities, work areas). Information regarding emergency signals, procedures and responsibilities for personnel, and instructions on operating notification systems will also be included with the maps.

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5.0 Emergency Contacts

The list of emergency contacts will be updated by the construction contractor to provide emergency contact information during construction of the Nanisivik Naval Facility.

Nunavut 24-Hour Spill Report Line	867-920-8130
Nunavut Emergency Management 24-Hour Line	1-800-693-1666
Canadian Coast Guard Marine Spill Report 24-Hour Line	1-800-265-0237
Arctic Bay RCMP (Emergencies)	867-439-1111
Arctic Bay RCMP (General Inquiries)	867-439-0123
Environment Canada 24-Hour Line	867-920-8130
Department of Fisheries and Oceans	867-979-6274
Site Medic	
Site Manager	
Environmental Coordinator	
DND – Rodney Watson, Project Manager (during construction)	613-943-8277 RODNEY.WATSON@forces.gc.ca
MARLANT – Maritime Forces Atlantic, CFB Halifax (during operation)	TBD

6.0 Training

In order to be ready for an emergency situation, a training program for all personnel has been prepared.

All people working on-site must be familiar with the emergency procedures. Knowledge of these procedures will be acquired through a mandatory orientation session and semi-annual training sessions which will specify locations of emergency response plans, emergency supplies kits, contents of emergency kits and Material Safety Data Sheets. Training will include mock exercises, instruction on fire suppression, lessons on handling techniques of hazardous materials and training on appropriate use of the emergency kits. Instruction regarding evacuation procedures, designated assembly points, and emergency communication will be provided during the training sessions. Additionally, training in advanced level of first aid and WHMIS is required of all employees and contractors working on-site.

The responsible manager/contractor will have a record of all employees' training dates, levels and expiration dates. Semi-annual refreshers regarding the procedures and responsibilities of the emergency response plans will be conducted following the mandatory orientation.

Additionally, mock drills will be held twice a year to allow employees to practice response skills.

7.0 References

Department of National Defence. 2007. A-GA-135-001/AA 001, "Flight Safety for the Canadian Forces".

Nunavut Department of Environment. No Date. Contingency Planning and Spill Reporting in Nunavut: A Guide to the New Regulations. Retrieved 3 August 2011: www.env.gov.nu.ca