



Demande de la CNER faisant l'objet d'un examen préalable #125498 OP NANOOK-NUNALIVUT 2020

Type de demande : New

Type de projet: Defence

Date de la demande : 12/23/2019 2:58:05 PM

Period of operation: from 0001-01-01 to 0001-01-01

Autorisations proposées: from 0001-01-01 to 0001-01-01

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DÉTAILS

Description non technique de la proposition de projet

Anglais: Joint Task Force North (JTFN) will conduct Operation NANOOK-NUNALIVUT 2020 (Op NA-NU 20) from 21 February to 31 March, 2020, based out of Resolute Bay and Rankin Inlet, Nunavut. The overall aim is to further enhance the Canadian Armed Forces' (CAF) knowledge and capacity to operate in austere locations and challenging environments, while allowing the CAF to demonstrate their ability to effectively respond to safety and security issues in the Arctic. Op NA-NU 20 will conduct patrols on the land, on the sea ice, and in the air. It will consist of approximately 300 CAF personnel and will include collaboration with international partners. To facilitate the conduct of Op NA-NU 20, JTFN will establish a Task Force Headquarters in Resolute Bay consisting of approximately 10 members with an additional 40 support personnel. In Resolute Bay, the Canadian Army will be supported by members of 1 Canadian Ranger Patrol Group (CRPG) for a total of approximately 200 personnel. Patrols will be performed on the sea ice in the vicinity of Resolute Bay, conducting training in arctic survival skills. Two live fire ranges will be conducted in the vicinity of Resolute. In Rankin Inlet a dive team consisting of approximately 60 personnel will conduct under-ice diving operations with international partners. Diving operation will also focus on ice breaching capabilities and will involve the use of explosives to understand the options for breaking through ice for diver access to the sea. CC-177 (Globemaster), CC-138 (Twin Otter), and CC-130 (Hercules) aircraft, based in Resolute will provide transportation, resupply and casualty evacuation services if required. In addition to the above project description submitted for review, CAF is looking to add below specifics: 1. Defence Research group (DRDC) wants to be allowed to use pyro technique in Resolute bay. The pyro they want to use are simple distress flares and they mentioned that they already have an agreement with RCMP to dispose of any misfire flare; 2. The reserve in Resolute Bay would like to have permission to burn their ration wrapping (cardboard box) to reduce the amount of garbage they'll have to bring back - so a permit for open sky fires is required and needs to be added to the application; 3. Both the reserve and 12 RBC would like to establish a fuel cache of up to 12,000L for their long range patrols. They can't provide the exact location at this moment but 12 RBC would need it for their patrol from Resolute Bay to Polaris and 35 RBC (reserve) would need to cache fuel for their patrol from Rankin Inlet to Chesterfield 4. The divers have provided the specs of explosives they were hoping to use: They are looking at using only C4 and no shape charges, including: 1. C4 Blocks X 10 (0.53 Kg of explosive/blocks) 2. Detonation cord X 60m; 3. Electric detonator X 5; 4. Time fuze M700 X 25m; 5. Igniter M-60 X 5; 6. Non-electric detonator X 5. By not including the linear shape charges it significantly reduces the amount of explosive being used and reduces the danger area to 300m radius.

Français: Not applicable

[illegible]

Inuinnaqtun: Not applicable

Personnel

Personnel on site: 200

Days on site: 30

Total Person days: 6000

Operations Phase: from 2020-02-20 to 2020-03-31

Activités

Emplacement	Type d'activité	Statut des terres	Historique du site	Site à valeur archéologique ou paléontologique	Proximité des collectivités les plus proches et de toute zone protégée
OP NUNALIVUT 2020	Other	Crown	N/A	N/A	N/A

Engagement de la collectivité et avantages pour la région

Collectivité	Nom	Organisme	Date de la prise de contact
Information is not available			

Autorisations

Indiquez les zones dans lesquelles le projet est situé:

Kivalliq
North Baffin

Autorisations

Organisme de régulation	Description des autorisations	État actuel	Date de l'émission/de la demande	Date d'échéance
Hunters and Trappers Associations/Organizations	Have not yet applied, notification being prepared	Not Yet Applied		
Kivalliq Inuit Association	Have not yet applied, notification being prepared	Not Yet Applied		
Hamlets and Municipalities	Met with officials from the municipal office (Mayor and Town Manager) to discuss considerations for Op Nanu 2020. They indicated that if the NIRB were to grant approval for the explosives range they would be satisfied with the vetting process and foresee no issues from purely a municipal standpoint. Agreed to strive to keep the municipal office informed of any progress.	Active		
Pêches et Océans Canada	Pending on NIRB's assessment, further notifications may need to be sent out for the ice breaching portion of the operation. No other permits required for other portions of the operation	Not Yet Applied		

Project transportation types

Transportation Type	Utilisation proposée	Length of Use
Air	CC-177 (Globemaster), CC-138 (Twin Otter), and CC-130 (Hercules)	
Land	by foot	

Project accomodation types

Autre,

Utilisation de matériel

Équipement à utiliser (y compris les perceuses, les pompes, les aéronefs, les véhicules, etc.)

Type d'équipement	Quantité	Taille – Dimensions	Utilisation proposée
BV206	2	L5.72m/W2.01m/H2.72m/Wt:8,500kg	transportation of troops and equipment
Light Over Snow vehicles with Qamutiik	200	L3.00m/W1.30m/H1.20m/Wt140kg	Transportation of troops and equipment
Heaters	10	L1.24m/W2.55m/H1.20m	Heating tents
5kw Generator	2	L2.0m/W1.1m/H0.2m	Temporary power
Tent group including Colman stove and lantern	15	L3m/W3m/H2.5m	shelter
CC-138 Twin Otter Aircraft	2	L15.1m/W9.81m/H5.66m/Wt5,600kg	Transportation of troops and equipment
CC-130 Hercules	1	L30m/W40m/H11m/Wt34,400kg	Transportation of troops and equipment
CC-177 Globemaster	1	L53m/W52m/H17m/Wt128,100kg	Transportation of troops and equipment
CH-146 Griffon	1	L17.1m/W14m/H4.6m/Wt5355kg	Transportation of troops and equipment
Snowmobile	20	3X1.3	transportation

Décrivez l'utilisation du carburant et des marchandises dangereuses

Décrivez l'utilisation de carburant :	Type de carburant	Nombre de conteneurs	Capacité du conteneur	Quantité totale	Unités	Utilisation proposée
this is for other portions of OP. No fuel req for the portion of OP that NIRB assessment is required for ie. ice breaching	fuel	81	4	324	Liters	Oil for LOSV
Diesel	fuel	7	205	1435	Liters	BV206, generators, heaters
Gasoline	fuel	78	205	15990	Liters	LOSV

Consommation d'eau

Quantité quotidienne (m3)	Méthodes de récupération de l'eau proposées	Emplacement de récupération de l'eau proposé
0		

Déchets

Gestion des déchets

Activités du projet	Type des déchets	Quantité prévue	Méthode d'élimination	Procédures de traitement supplémentaires
Information is not available				

Répercussions environnementales :

Two personal visited Rankin Inlet to discuss the potential of conducting an explosives range during OP NANU with an official from the local Municipal Office. Our intent is to gain local knowledge on preferred location, impact to the environment and local species, impact to food sources, and to ascertain the general thoughts from the community on the prospect of an explosives range. Detailed EOD/UXO plan: No actual military ordnance, only bulk explosives and explosive accessories, will be used during the explosives range. As such, the possibility of a resulting UXO and a subsequent EOD plan does not exist. However, the possibility of a misfire does exist. In the event of a misfire, we will follow appropriate CAF procedures. Standard misfire wait times will apply (30mins for non-electric misfires, 10mins for electric misfires). On completion of misfire wait times, the RSO only will investigate the misfire and determine the most suitable course of action. The misfired initiation set will be replaced with a new initiation set. Detonation will be attempted with the new initiation set. The intent is to trial two separate techniques to explosively open a hole. The first employs a directional shape charge while the second employs a bore hole in the ice and the explosives are placed under water. The storage of the explosives will be in a sea container located at the FOL. Standard mitigation measures (bubble curtain) will not be employed to reduce the effect on the marine environment. However, there are natural environmental mitigation measures based on the chosen location. Due to the increased depth (~33m) of the chosen site, disturbance to the seabed will be less than in shallower depths. The chosen location is surrounded by islands with steep terrain. The location of the islands in relation to the detonation site will help to both provide frontal protection to personnel and to minimize propagation of the blast-wave toward the community.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

Description de l'environnement existant : Environnement physique

sea ice, frozen/ice covered shoreline

Description de l'environnement existant : Environnement biologique

unknown

Description de l'environnement existant : Environnement socio-économique

N/A

Miscellaneous Project Information

A contractor will empty the PAB garbage container on an establish schedule and all activity conducted on land will bring their garbage back to the FOL to dispose of them in the containers. The contingency plan for spill is to clean as much as possible with spill kits and report the spill to their chain of command. (JTFN)

Identification des répercussions et mesures d'atténuation proposées

The impact on the environment of all activities will be minimal. The worst thing that could possibly happen is a spill of gas while refuelling a snowmobile. In that eventuality they will react as quick as possible and make use of their first response spill kit to mitigate the impact on the environment and will send a spill report to JTFN. For the explosive portion, the impact on the environment could result in some fishes or marine wild life being disturbed in very close proximity of the explosive site. Standard measures (bubble curtain) will not be employed, in order to reduce the effect on the marine environment. The town will hear the detonation but considering the distance from the site, the sound of the blast should be moderate. The shock wave created by the blast will be stopped by the land on one side and an island on another. This being said considering the amount of explosive plan to be used, the shock wave would be very minimal. First response spill kit and cleaning of the spills followed by the submission of a spill report; (Fuel caches, snowmobile refuelling) For the explosive activity - the site was chosen in consideration with the mitigation of the shock wave travelling distance as well as due to its distance from the town. Standard mitigation measures (bubble curtain) will not be employed to reduce the effect on the marine environment. However, there are natural environmental mitigation measures based on the chosen location. Due to the increased depth (~33m) of the chosen site, disturbance to the seabed will be less than in shallower depths. The chosen location is surrounded by islands with steep terrain. The location of the islands in relation to the detonation site will help to both provide frontal protection to personnel and to minimize propagation of the blast-wave toward the community

Répercussions cumulatives

unkown

Impacts

Identification des répercussions environnementales

	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
Construction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exploitation																									
Other		-	-	-	-	U	-	-	-	U	U	-	U		-	U	U	U	-		-	-	-	-	-
Désaffectation																									
-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-		-	-	-	-	-

(P = Positive, N = Négative et non gérable, M = Négative et gérable, U = Inconnue)

Site du projet



Liste des géométries de projet

1	point	OP NUNALIVUT 2020
2	point	OP NUNALIVUT 2020
3	point	OP NUNALIVUT 2020
4	point	OP NUNALIVUT 2020
5	point	OP NUNALIVUT 2020
6	point	OP NUNALIVUT 2020
7	point	OP NUNALIVUT 2020
8	point	OP NUNALIVUT 2020
9	point	OP NUNALIVUT 2020
10	point	OP NUNALIVUT 2020
11	point	OP NUNALIVUT 2020
12	point	OP NUNALIVUT 2020

13	point	OP NUNALIVUT 2020
14	point	OP NUNALIVUT 2020
15	point	OP NUNALIVUT 2020
16	point	OP NUNALIVUT 2020
17	point	OP NUNALIVUT 2020
18	point	OP NUNALIVUT 2020
19	point	OP NUNALIVUT 2020