PART 1 FORM
PROJECT PROPOSAL INFORMATION REQUIREMENTS

For more information about the Nunavut Impact Review Board (NIRB) please visit our web site http://nirb.nunavut.ca/ or to access NIRB documents, project screenings, and project reviews please visit the Nunavut Impact Review Board ftp site http://ftp.nunavut.ca/nirb.

IMPORTANT

Please be advised that your application will not be processed until the following sections 1 - 8 are completed in full in English and Inuktitut (+ Inuinnaqtun, if in the Kitikmeot).

SECTION 1: APPLICANT INFORMATION

1a. Project Number

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

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

1b. Project Name **Kiggavik-Sissons Project**

2. Applicant's full name and mailing address:

AREVA Resources Canada Inc.
P.O. Box 9204, 817 – 45th Street West
Saskatoon, SK
S7K 3X5

Fax: (306) 343-4640 or 867-793-2002
Phone: (306) 343-4596 or 867-793-2000
Email: barry.mccallum@areva.ca

3. Primary contact's full name and mailing address:

Barry McCallum, Manager Nunavut Affairs
Same address as above

Fax: (306) 343-4640 or 867-793-2002
Phone: (306) 343-4596 or 867-793-2000
Email: barry.mccallum@areva.ca

SECTION 2: AUTHORIZATION NEEDED

1. Indicate <u>all</u> authorizations associated with the project proposal:

- [X] Regional Inuit Association (RIA)
- [X] Nunavut Water Board (NWB)
- [X] Nunavut Planning Commission (NPC)
- [X] Department of Indian And Northern Development (DIAND)
- [X] Department of Fisheries and Oceans (DFO)
- [ ] Community Government & Services (CG&S)
- [X] Nunavut Research Institute (NRI)
- [X] Department of Culture, Language, Elders, and Youth (CLEY)
- [ ] Canadian Launch Safety (CLS)
- [ ] Environment Canada (EC)
- [X] Government of Nunavut (GN)
- [ ] Department of National Defense (DND)
- [X] Hamlet
- [ ] Parks Canada (PC)
- [ ] Canadian Wildlife Service (CWS)
- [ ] Other (please specify): *we may require authorization for baseline work from Department of Environment and/or Canada Wildlife Service (permitting process not yet initiated)*

2. **List the <u>active</u> permits, licenses, or other rights related to the project proposal and their expiry date:**

KIA Land Use Permit – KVL204X36 (expires April 5, 2008); KVK306C02 (application under review)
DIAND Land Use Permit – #N2000J0040, Storage Authorization, no expiry; #N2006C0037 (application under review)
DIAND License to Prospect – N 30085, expires March 31, 2007; N30012, expires March 31, 2007
NWB Water Licence – 2BE-Sis0607, expires July 31, 2007; new license pending, application submitted
GN Business License – 06-060, expires March 31, 2007; 06-062, expires March 31, 2007

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

☐ **YES** **X NO – Environmental Baseline permits not yet applied for**

SECTION 3: PROJECT PROPOSAL DESCRIPTION

1. Indicate the type of project proposal:

	Mine development
	Advanced Exploration/ Bulk Sampling
X	Exploration (geophysical ground, geophysical air, drilling)
	Site remediation/ reclamation
	Research
	Dew Line Clean up / Site Investigation
	Marine Infrastructure (port, breakwater, dock)
	Tourism Activities
X	Other: Environmental Baseline

2. Indicate the activities related to the project proposal:

	Drilling (other than geoscientific)
	Offshore marine infrastructure
	Construction of airport/ landing strip
X	Temporary camp (to be removed at end of field season)
	Permanent camp (to remain for life of authorization)
	Construction of recreational or safety cabin
X	Temporary fuel storage (to be removed at end of field season)
X	Permanent fuel storage (Perhaps envirotanks in 2008) (to remain for life of authorization)
	Placement of structures (other than camp or cabin – i.e. scientific instruments)
X	Air surveys (i.e. geophysical, wildlife)
X	Use of aircraft/watercraft/land vehicle for personnel drop-off and pick-up to project location
X	Use of on-site mechanized vehicles (i.e. atv, snowmobile, truck, **zodiac**)
X	Sewage or grey water disposal via sump
X	Hazardous waste storage or disposal
X	Solid waste disposal
X	Chemical storage (Drill additives)
	Explosives storage
	Soil testing
	Soil disposal/ soil storage
X	Incineration of combustible wastes and removal of non-combustible wastes
	Accessing aggregate material from **existing** Quarry
	Construction of **new** quarry to access aggregate material
	All season road / access road
	Winter road / trail
	Road modification
	River/ stream/ lake crossing or work/ bridge
	Ditch construction
	Drainage alteration
	General construction activities requiring heavy equipment machinery
	Dam/ impoundment (construction/ abandonment/ removal/ modification)
	Cut and/or fill
X	Geoscientific sampling by diamond drilling

X	Geoscientific sampling by soil sampling		Research (Environmental Baseline Study)
	Geoscientific sampling by trenching	X	Ecological survey
X	Geoscientific sampling by borehole core		Harvesting (Environmental baseline)
	Blasting		Removal of vegetation for scientific purposes
	Channeling		Generation of power via hydroelectric means
	Excavation	X	Generation of nuclear power
X	Hydrological testing (Environmental Baseline Study)		Other: **environmental baseline field data collection**
X	Abandonment and restoration		
	Site restoration (fertilization/ grubbing/ scarification/ spraying/ recontouring)		
X			

3. Personnel

Total No. of personnel on site = (A): **32 in 2007, 40 in 2008**

Total No. of days on-site = (B): 125

Total No. of Person days (A) × (B) = 4000 in 2007, 5000 in 2008

4. Timing

Period of operation: **March 1** *to* **September 30**

Proposed term of authorization: **March 2007** *to* **March 2009**

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

April 2007 – haul containment berms and fuel to both Kiggavik and Sissons sites
• April/May 2007 – haul drill and equipment to site; haul new buildings and other building materials to the Kiggavik camp site; refurbish/renovate and add to the existing camp; start mobilizing environment crew for surface hydrology work (timing dependant on spring thaw); start mobilizing drill crew, as needed.
• June to September 2007 – carry out field program at the Kiggavik and Sissons Sites – environmental baseline study boundary will extend beyond the lease areas to characterize a much broader area, including Baker Lake region (scope of this field work to be forwarded when ready)
September and October 2007 – prepare camp for winter shut down
• Winter 2007/2008 – backhaul empty fuel drums and other wastes for proper disposal
• April 2008 – haul equipment to site for 2008 program
• June to September 2008 – carry out field program at the Kiggavik and Sissons Sites and second season of environmental baseline program.
• The present plan is to carry-on operations beyond 2008. If this does not occur, the site will be decommissioned in late 2008 and early 2009.

5. Region (check all that apply):

☐ North Baffin ☐ South Baffin ☒ Kivalliq ☐ Kitikmeot ☐ Transboundary: _____

6. Land Status (check all that apply):

☒ Crown ☐ Commissioners' ☒ Inuit Owned Surface lands ☒ Inuit Owned Sub-Surface Lands

7. Co-ordinates:

Min Lat (degree/minute) **64° 10' 33.8"** Min Long (degree/minute) **97° 9' 23.3"**

Max Lat (degree/minute) **64° 45' 6.6"** Max Long (degree/minute) **64° 45' 6.6"**

NTS Map Sheet No: **66A-03, 04, 05, 06, 11, 12 and 66B-01, 08, 09**

Please ensure that maps of the project are attached (1:50,000 **if available**, 1:250, 000 **Mandatory**) available from Natural Resources Canada

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

Min Lat (degree/minute) **64° 26' 24"** Min Long (degree/minute) **97° 39' 24"**

Max Lat (degree/minute) **64° 26' 30"** Max Long (degree/minute) **97° 39' 48"**

If different from above for the camp:

NTS Map Sheet No: **#66/A**

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 include 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:

- The project activities, their necessity and duration;
- Method of transportation;
- Any structures that will be erected (permanent/ temporary);
- Alternatives considered; and
- Long-term developments, the projected outcome of the development for the area and its timeline.

SECTION 5: MATERIAL USE

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

Equipment type and number	Size – dimensions	Proposed use
2 -Boyles 25A Diamond Drill	3m X 3m (approx. 15,900 kg)	Drilling
Generator – main camp	30 -35 kw	Electricity for camp
Generator – fly camp	1 – 5 kw	Electricity for temporary camp
Water Pumps	.5m X .5m	Water for camp
Helicopter	Astar 350 secured, may use other types	Transporting crews, drill, and supplies

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	365 @ 205 l	74825 l	Arctic berm containment in 2007 – perhaps envirotanks in 2008
Gasoline	5 @ 205 l	1025 l	Arctic berm containment
Aviation fuel	300 @ 205 l	61500 l	Arctic berm containment in 2007 – perhaps envirotanks in 2008

Propane	25 @ 45 kg	1125 kg	cylinders
Other			
Hazardous Materials and Chemicals		**Total Amount of Hazardous Materials and Chemicals (in Litres)**	
kitchen cleaner and drill additives only	1 – 5 litres	1-5 litres	Secured in kitchen or secured with drill supplies

3. Detail daily water consumption rates

Daily amount (m^3)	Proposed water retrieval methods	Proposed water retrieval location

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

☐ **YES** **X 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)	0.8 cubic metres/day	Latrine Sump or incinerating pacto toilet contents	
Greywater	6 cubic metres/day	Sump	
Combustible wastes	500 kilograms	Burned, residue to Baker Lake waste disposal	
Non-Combustible wastes	500 kg	Baker Lake waste facility	
Overburden (organic soil, waste material, tailings)	None		
Hazardous waste	1 – 5 litres	Flown off site for disposal (manifested)	
Other:	Drill water Empty fuel drums	Sump Removed from site	Settling ponds Recycled

2. Will you be incinerating combustible waste, removing all solid waste, and removing the ash generated from incineration?

X 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
Baker Lake	Community Liaison Committee: Hugh Tulurialik Simeon Makkungwak, Phillip Putumiraqtuq John Nukik Martha Nukik Robert Inupak Craig Simailak Kevin Stoddart Moses Kayuryok Ivan Quinangnaaq	Community Liaison Committee: HTO DEA DEA Elder Elder Elder Youth Youth Hamlet Health	Dec 4/06, Jan 15, 2007
Baker Lake		HTO	Mar 1/06
Baker Lake		CLARC	Mar 1/06
Baker Lake		Hamlet Council	Mar 2/06, Oct 24/06
Rankin Inlet		KIA	Feb 22/06, Jan 9/07
Rankin Inlet		Chamber of Commerce	Mar 28/06

SECTION 8: GENERAL QUESTIONS

1. **Will you be disturbing any known archaeological sites?**

☐ **YES** **X NO**

Applicant:

F. Guerin | General Manager Kiggavik | Feb 1, 2007

Signature **Title** **Date**