
Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

Box 1720, Iqaluit, NU X0A 0H0 phone:(867) 979-7279 fax: (867) 979-7109 e-mail:
mosha.cote@arcticcollege.ca

SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 034 19N-M

ISSUED TO: Edwin Riseborough
Defense Research and Development Canada
3701 Carling Avenue
Ottawa, Ontario
K1A 0Z4 Canada

TEAM MEMBERS: S. Demidenko

AFFILIATION: Defense Research and Development Canada

TITLE: Transmit Array Antenna Farm

OBJECTIVES OF RESEARCH:

This project will conduct measurements of the polar ionosphere. In order to do this, this project will build a 16 by 16 transmit antenna array comprised of 30 foot monopoles (Phase 3 – footprint is 120 m by 120 m). This will expand on the 8 by 8 antenna array that is already at the Eureka site (Phase 2 – footprint is 60 m by 60 m). The Phase 2 and Phase 3 locations for the arrays are shown in Figure 1 of the Setup.doc file. A prototype antenna setup is shown in Figure 2 of that file. Other than surveying the locations to set ground plates for holding the antennas, no ground preparation is required. Each antenna will be held vertically using straps connected to four 75 cm long guy anchors that are driven into the soil.

TERMS & CONDITIONS:

The holder of the licence will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this licence.

DATA COLLECTION IN NU:

DATES: October 01, 2019-October 31, 2019

LOCATION: Eureka

Scientific Research License 02 034 19N-M expires on December 31, 2019

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for Mary Ellen Thomas
Science Advisor

