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# Nunavummi Qaujisaqtulirijikkut / Nunavut Research Institute

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## SCIENTIFIC RESEARCH LICENSE

LICENSE # 02 009 21R-M

ISSUED TO: Holly Foley  
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). 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. The license holder will abide by all special public health protection measures imposed by Nunavut's Chief Medical Officer of Health in response to the Covid-19 Pandemic, including restrictions on non-essential travel to Nunavut. These terms and conditions will form part of this licence.

### DATA COLLECTION IN NU:

DATES: June 01, 2021-September 30, 2021

LOCATION: Eureka

Scientific Research License 02 009 21R-M expires on December 31, 2021

Issued at Iqaluit, NU on January 12, 2021



Mary Ellen Thomas  
Science Advisor

