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SCIENTIFIC RESEARCH LICENSE

LICENSE NUMBER 02 010 26R-M

ISSUED TO: Davor Mihajlovic
Ottawa Research Centre
Defense Research and Development Canada
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TEAM MEMBERS: S. Demidenko,A.Joyal, S.Whelan

TITLE: Transmit Array Antenna Farm

OBJECTIVES OF RESEARCH:
The project team plans on completing remaining technical fixes and enhancements to the antenna transmit system. The existing antenna farm consists of 256 monopole antennas, each 9 meters tall, arranged in a 16-by-16 square lattice with an overall footprint of 120 meters by 120 meters. There are four antenna system shelters housing electronics and connected to each of 256 antenna elements by coaxial cables. We will be sending a team to Eureka site (Environment Canada Weather Station) also to complete tasks related to testing and operation of 800-kilowatt generator. A large dummy electrical load is required for proper operation of installed generator and will need to be connected to it. Completing these remaining technical tasks should allow for full function of the antenna transmit system and achieve Full Operating Capability of the Transmit Array Antenna Farm (Initial Operating Capability was achieved in 2024). If time permits, we will also attempt to collect additional scientific data for further technical analysis, as required for submission in a report to a client GoC organization.

TERMS & CONDITIONS:
The holder of the license will be bound by the terms and conditions of the Nunavut Impact Review Board Screening Decision Report (NIRB File # 19XN012) and the Department of Culture & Heritage archaeological sites terms and conditions. These terms and conditions will form part of this license.

DATA COLLECTION IN NU:
DATES: April 1,2026 to December 31,2026
LOCATION: Eureka

Scientific Research License 02 010 26R-M expires on December 31,2026
Issued at Iqaluit, NU on February 20,2026

James Shirley
Science Advisor

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