

Project Introduction

NTHE Submarine Fiber Optic Cable Project

Supply and Installation of a Submarine Fiber Optic Cable System

Quintillion Subsea Operations, LLC

1 BACKGROUND

Quintillion Subsea Operations (Quintillion or Purchaser) will be seeking proposals for the supply and installation of the Nome to Homer Express submarine cable project (NTHE). The Quintillion Nome to Homer Express project will extend its existing subsea and terrestrial network south from Nome to Emmonak, continuing along the Yukon-Kuskokwim Delta coast to Naknek, and then terrestrially and submerged for about 230 miles to King Salmon, Igiugig, and on to Homer. There, it can interconnect with multiple regional providers for a diverse, resilient, lower latency, competitive pathway to U.S. and global interconnectivity and cloud services.

The fiber optic cable system will be procured as an open system and is designed to connect an existing landing at Nome, Alaska to an existing landing at Homer, Alaska. The cable system has two distinct parts:

1. A repeatered/powered system connecting Nome, Alaska to Naknek, Alaska with an unpowered branch segment to Emmonak.
 - a. This part of the system has three optional stubbed branching units designed to serve Hooper Bay, Mekoryuk, and Toksook Bay and Togiak.
2. Two unrepeatered/unpowered segments connecting:
 - a. A new BMH at Igiugig, Alaska to Pile Bay, Alaska across Iliamna Lake
 - b. A new BMH at Williamsport, Alaska to a new BMH at Homer, Alaska

The repeatered portion of the system is approximately 1,290 km in cable length and will consist of a combination of Double Armor and Single Armor cable. The cable will be composed of 3 fiber pair (FP): 2 express pairs from Nome to Naknek and 1 omnibus pair from Nome to Naknek including Emmonak and all optional BU locations. This portion of the system will require double end power feeding from Nome and Naknek.

The unrepeatered system is approximately 255 km and will be composed of 12 FPs for each segment.

The NTHE project is funded, in part, by the National Telecommunications and Information Administration (NTIA), and private capital.

Quintillion has performed a Desktop Study (DTS) for the NTHE cable system which will be shared at the RFP stage. An initial marine route survey campaign was carried out in 2023 from Nome to a point south of Nunivak Island including the Emmonak branching segment. This survey data and an RPL and SLD package will be shared when the RFP is released.

The remainder of the NTHE cable system will be surveyed in 2024.

The figures below provide an overview of the NTHE cable system.

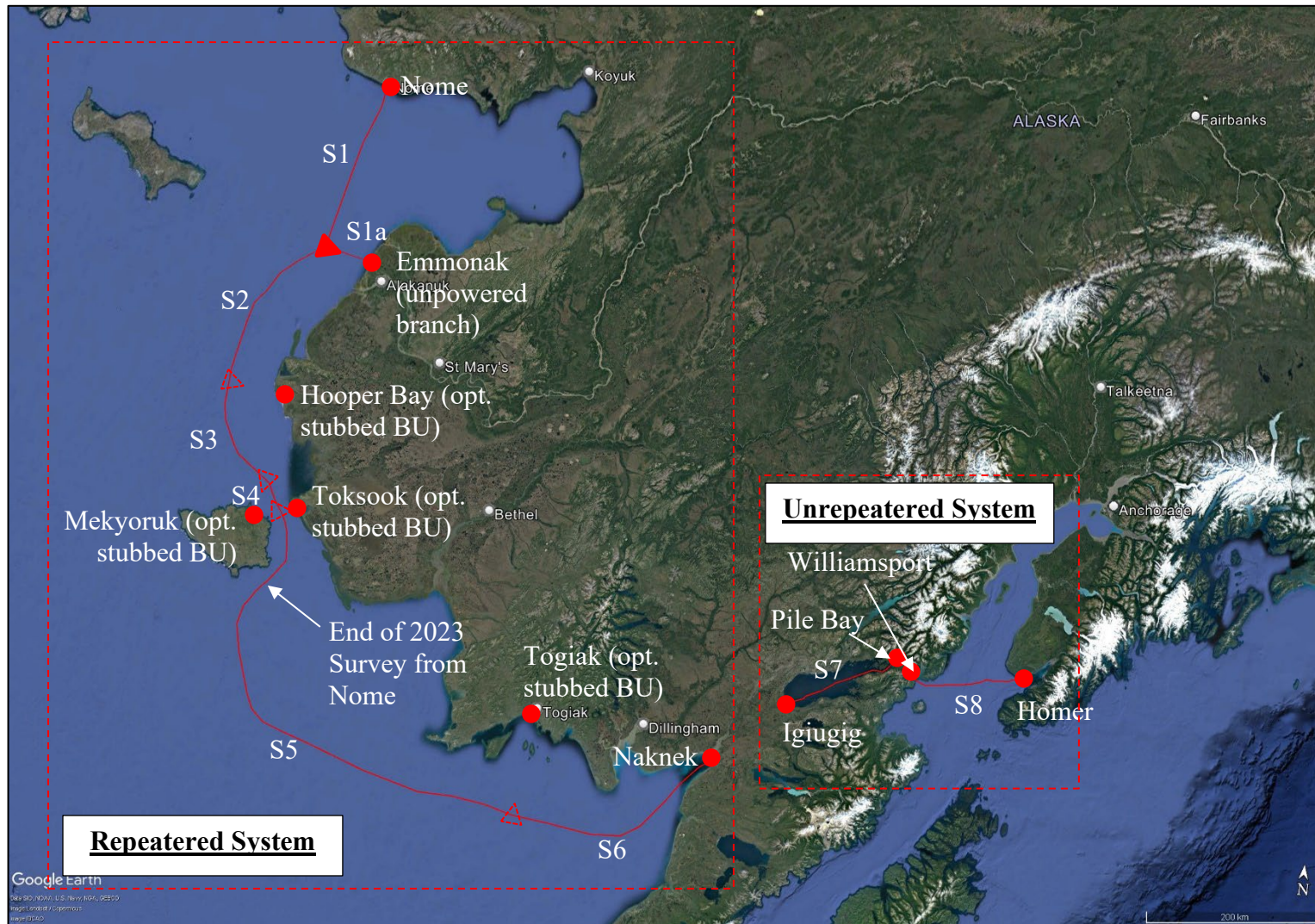


Figure 1-1: NTHE Overview



Figure 1-2: NTHE Unrepeated Segment Overview

2 SCHEDULE

The below timeframes summarize the main activities to implement the NTHE cable system, including the required Ready for Service date.

- Completion of the remaining marine route survey (conducted by Quintillion): 2024
- Contract-in-Force (CIF) for wet plant supply and installation: Q1 2024
- Early construction (Purchaser-led construction of landing sites, etc.): 2025
- NTHE cable system installation: 2026
- Ready for Service (RFS): 2027

The cable supply and installation RFP will be released upon execution of Quintillion's NDA. Proposals will be required by mid-February 2024

Please request RFP documents by email.

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3 PROJECT CONTACT

All inquiries or correspondence related to this project and all communication regarding receipt of the RFP shall be directed to the following:

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