

APPLICANT:
NORTH AMERICA TRANSMISSION, LLC
NORTH AMERICA TRANSMISSION CORPORATION

EXHIBIT E-1
DESCRIPTION OF PROPOSED EDIC TO FRASER COMPONENT
(§88.1(a) – (d))

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In accordance with 16 NYCRR § 88.1(a)-(d), as modified by the December 16 Order, this Exhibit E-1 provides a description of certain aspects of the Edic-Fraser component, including design voltage and voltage of initial operation, type, size, number and materials, insulator design and length of transmission line.

DESIGN VOLTAGE AND VOLTAGE OF INITIAL OPERATION (§88.1(a))

Edic-Fraser is designed to operate at a nominal system voltage of 345 kV, alternating current (“AC”). The voltage of initial operation will be 345 kV.

TYPE, SIZE, NUMBER, AND MATERIALS OF CONDUCTORS (§88.1(b))

The proposed conductor type for Edic-Fraser is a 1590 kcmil 54/19 ACSR “Falcon” conductor. Edic-Fraser is designed for a two-conductor bundle per phase for the entire 80 mile circuit from the Edic Substation to the Fraser Substation. Special consideration will be given to the conductor design for the long span crossings of rivers, streams, ponds or other geographic features.

The aerial shield wire on Edic-Fraser will be a DNO-8696 or equivalent Optical Ground Wire (“OPGW”) that will provide line shielding as well as a communication path between the substation communication facilities.

INSULATOR DESIGN (§88.1(c))

Insulator design for Edic-Fraser will be suspension type, polymer insulator with ball and wye-clevis connections. In all suspension applications, regardless of structure type, insulators will consist of two polymer insulators configured in a V-string formation. Dead-end and angle structures will utilize two polymer insulators configured in a parallel formation placed in a strain condition with associated dead-ending hardware. Where required, vertical polymer jumper post insulators will be utilized to provide proper clearance to grounded portions of the structures and to restrict jumper loop movement due to wind loading.

LENGTH OF TRANSMISSION LINE (§88.1(d))

The length of the proposed route is approximately 80 miles. The Scoping Statement and Schedule for the Edic-Fraser Component details further routing analysis to take place prior to the filing of the Part B Application.