



Facilities Study Infrastructure Report

**Generator Interconnection Request #219
Establishing a 138 kV System Interconnection for a
63.15MW Biomass Generating Facility
47C – NewPage Substation**

July 28, 2011
Transmission & Distribution
Engineering Department
Nova Scotia Power Inc.

Facilities Study Report

IR 219 – NPPH Interconnection



1.0 Introduction:

This project proposes a 63.15 MW Biomass powered Generator connected to the 138 kV bus located at the 47C- NewPage Substation in Port Hawkesbury, NS. This biomass fueled generator will consist of a single unit operating with a 63.15 MW capacity.

The Point of Interconnection will be the existing bus section of L6523 at the NewPage substation. This interconnection will require the installation of a new circuit breaker creating a new node for the connection of the generation facility.

The facility infrastructure report is based on data that originates from the IR 219 System Impact Study Report GIP-IR219-SIS-R2, completed by NSPI on Jan 10th, 2011.

2.0 Summary:

2.1 Estimated Costs:

The estimated cost for Nova Scotia Power to provide the interconnection to the NPPH biomass generating facility is **\$1,111,190**, taxes not included. This cost estimate is summarized in Table 1: NPPH Biomass Generating Facility Cost Estimate below.

The cost estimate in this report is valid for 180 days.

Activity	Price Estimate
Equipment additions	\$ 882,410
SPS upgrades	\$ 124,156
RTU Upgrade	\$ -
Communication upgrades	\$ 32,622
10% Contingency	\$ 72,002
Total	\$ 1,111,190

Table 1: Cost Estimate

NSPI will not start any work on this project prior to receiving secured funding from the Interconnection Customer, in accordance with Article 11.5 of the Generation Interconnection Agreement for the applicable estimated cost.