

**REGISTRATION PURSUANT TO
PART X, ENVIRONMENTAL ASSESSMENT,
ENVIRONMENTAL PROTECTION ACT FOR
THE PROPOSED LINE EXTENSION AND UPGRADE,
GAMBO RIVER TO MINT BROOK, GAMBO**

NAME OF UNDERTAKING:

**Newfoundland Power Line Extension and Upgrade
from
Gambo River to Mint Brook, Gambo**

PROPOSER:

(i) Name of Corporate Body:

Newfoundland Power Inc.

(i) Address:

4 Magee Road
Gander, NL
A1V 1W2

(i) Supt. Regional Engineering, Western Region:

Name: Ralph Mugford
Official Title: Supt. Regional Engineering, Western Region
Telephone No.: (709) 637-7802

(vi) Principal Contact Person for purposes of environmental assessment:

Name: Robert Dicks
Official Title: Engineering Technician
Telephone No.: (709) 651-6620
Fax No.: (709) 651-6665
Email: rdicks@newfoundlandpower.com

THE UNDERTAKING:

(i) Nature of the Undertaking:

Line extension and upgrade from Gambo River to Mint Brook, Gambo. Newfoundland Power will complete all work to install poles and Aliant Telecom will install fibre cable.

(i) Purpose/Rationale/Need for the Undertaking:

This project consists of a line upgrade of 2.4 km and line extension of 0.4 km. This initiative is required to service cottages in the area as requested by cottage owners.

DESCRIPTION OF THE UNDERTAKING:

(i) Geographical Location:

(a) Proposed Route

The line upgrade will be done on the existing line from Gambo River to Mint Brook (2.4 km). The new line extension will cross Mint Brook (0.4 km). This is shown on 1:50,000 mapping in Appendix A.

(ii) Physical Features

Distribution Line:

Newfoundland Power will operate the line from Gambo River to Mint Brook. The system consists of 10-15 meters high, single pole pressure treated (chromated copper arsenate) wood structures with power cable on top and fibre cable mounted 3 meters from top. The average span length will be 70m. A typical structure is shown in Appendix B. The cleared right-of-way will be approximately 5.4 m.

(ii) Construction:

(a) Construction Schedule:

Construction will be carried out by contract forces, consisting of Aliant Telecom forces and Newfoundland Power forces over a 4 month period. This project is scheduled to begin with surveying and brush clearing in July 2003. Erection of the poles is to begin in August 2003 for a completion date of September 2003. Installation of fibre cable is to begin after all poles are installed for a completion date of October 2003.

(a) Construction Activities:

The major construction activities with the fibre line include:

- a) Surveying;
- a) Pole installations;
- a) Clearing;
- a) Material handling;
- a) Framing of structures;

- a) Fibre stringing; and
- a) Clean up and rehabilitation.

(a) Potential Sources of Pollutants:

The potential sources of pollutants during the construction period are the siltation of streams and water bodies, and hydrocarbon leakage from construction equipment. All equipment will be inspected routinely to ensure that no hydrocarbon (i.e. gasoline, diesel fuel and lubricating oil) leaks occur. Appropriate buffer zones will be maintained and construction activities will include the use of silt screening and vegetation stabilization of any disturbed areas to prevent siltation of water bodies. Permits will be obtained from the Water Resources Division Of The Department of Environment and The Department Of Fisheries and Oceans Canada for all work near streams or rivers. The contractor will be responsible for restoring and cleaning up the route to a level that is acceptable to Newfoundland Power representatives, Aliant Telecom representatives and to all necessary government department officials.

(a) Potential Resources Conflicts:

A ground survey will be conducted to determine the location of structures in relation to water bodies and wetlands.

No Protected Water Supply Areas have been identified on this project.

The existing Gambo River crossing and the proposed Mint Brook crossing are the two river crossings that have been identified as scheduled Atlantic Salmon Rivers on this project, as identified on the enclosed 1:50,000 mapping. Pole placement for the Mint Brook crossing will be approximately 15m from the edge of the river so there will be no disturbance to water quality or salmon and trout. The aerial crossing of Mint Brook will be achieved by motorless watercraft.

Site restoration and clean up will include landscaping and site repair measures such as; filling, repairing and stabilizing ground conditions before and after pole installations, reseeding or resodding areas which previously consisted of grass or sod, and repairing or replacing fences, road surfaces and other structures impacted during construction.

(a) Operation:

A line upgrade will be done from Gambo River 2.4 km West to Mint Brook along the existing TCH and woods roads. A line extension will be required 0.4 km across Mint Brook. The right-of-way clearing for this route will be 5.4m wide. This distribution line will be comprised of permanent structures with a minimum operating life of 30

years.

(a) **Maintenance Activities:**

The distribution line will be built along existing access roads and can, therefore, be easily inspected from the ground.

(b) **Potential Sources of Pollutants:**

Potential sources of pollutants will be limited to those that may result from the use of all-terrain vehicles along the line during routine maintenance. All equipment will be inspected routinely to minimize the probability of hydrocarbon (i.e. gasoline, diesel fuel, and lubricating oil) leaks occurring.

(c) **Potential Resources Conflicts:**

Newfoundland Power undertakes an Integrated Vegetation Management Program to manage vegetation within communication line rights-of-way. This program involves manual cutting of brush and the application of herbicides depending on the particular section of right-of-way to be managed. An Integrated Vegetation Management Plan requires follow up every five (5) to ten (10) years depending on the location in the province. All vegetation management activities are undertaken subject to approval from the Pesticide Control

Section, Department of Environment with adherence to the Pesticide Control Act and Associated regulations.

(ii) Occupations:

The occupations required to construct this undertaking are:

- a) Civil engineers;
- a) Electrical engineers;
- a) Engineering technicians;
- a) Land surveyors;
- a) Heavy equipment operators;
- a) Drillers and blasters;
- a) Line workers;
- a) Ground workers; and
- a) Labourers.

Approximately 3 crews of 4 people each will be working on the line for pole placements, using muskegs, excavators and ATV's.

(vi) **Approval of the undertaking:**

The following is a list of permits, approvals and authorizations which may be necessary for the proposed project:

- a) Undertaking approval from the **Environment Assessment** – issued by the Minister of the Department of Environment;
- b) Forest cutting permit – Forestry Division, Department of Forest Resources and Agri-Foods;
- c) Certificate of approval for all watercourse crossings – Water Resources Division, Department of Environment;
- d) Easement rights for pole line over Crown Land – Land Branch, Department of **Government Services and Lands**;
- e) Letters of Advice – Department of Fisheries and Oceans;
- f) Approval from Navigable Waters Protection Act;
- g) Approval from the Municipality;
- h) Approval from The Department Of Tourism,Culture and Recreation.

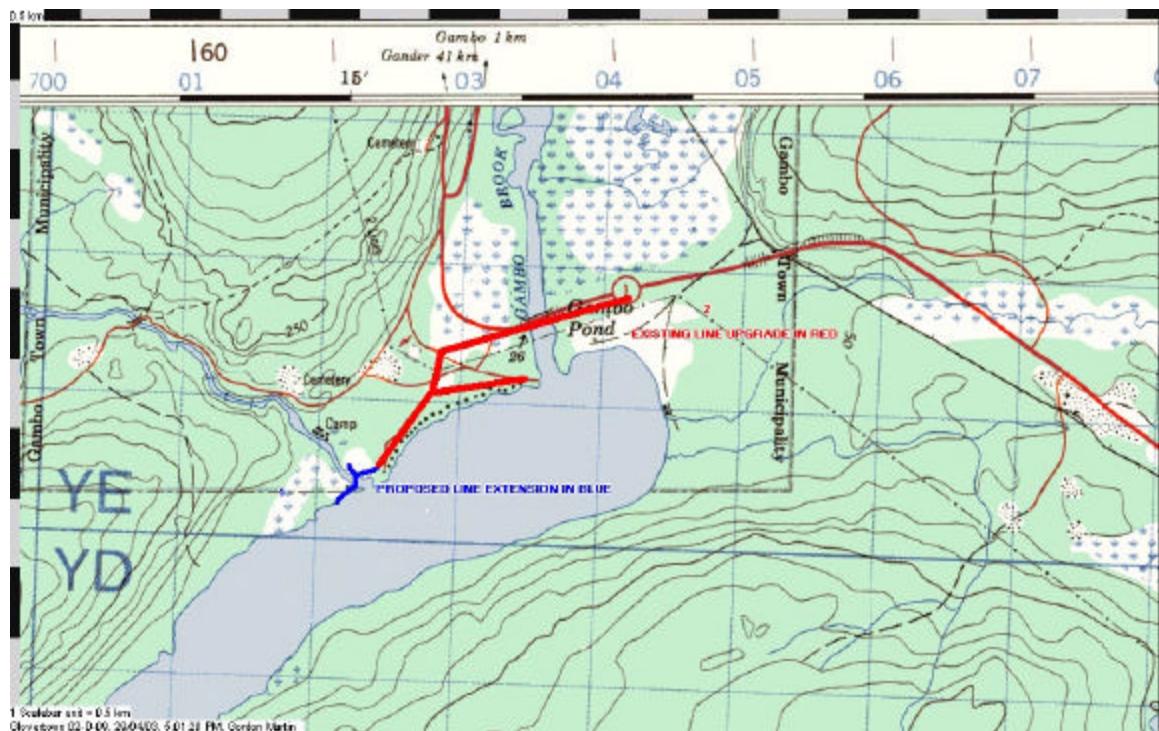
APPROVAL OF THE UNDERTAKING:

SCHEDULE:

The proposed start date for this undertaking is July 2003. See construction schedule section.

<u>Date</u>	<u>Supt. Regional Engineering</u>
May 1, 2003	Ralph Mugford

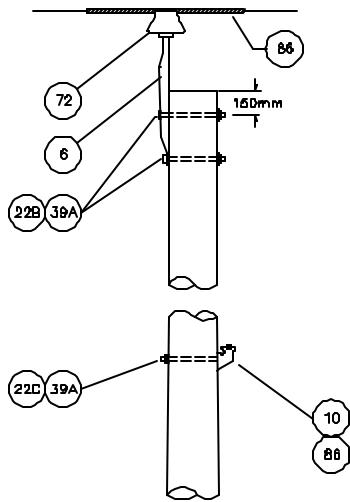
Appendix A
Proposed route Gambo River to Mint Brook, Gambo.





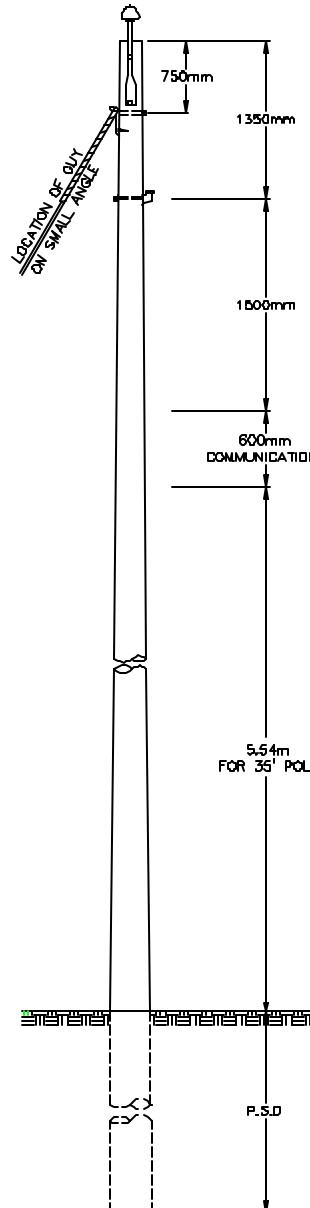
NEWFOUNDLAND & LABRADOR - DEPARTMENT OF ENVIRONMENT & LANDS
MAPPING DIVISION, HOWLEY BUILDING, MCGINNIS LINE, ST. JOHNS, NEWFOUNDLAND A1C 5T7

Appendix B
Typical Single Pole Structure



NOTES:-

- 1 STRUCTURE TYPE "1A" IS A SINGLE PHASE TANGENT STRUCTURE
- 2 FOR SECONDARY DETAILS SEE SECTION 10-5.
3. FRAMING DIMENSIONS:
 - (a) SUITABLE FOR JOINT USE ON SHORT SPAN CONSTRUCTION.
 - (b) SUITABLE FOR NON-JOINT USE ON LONG SPAN CONSTRUCTION.
 - (c) SUITABLE FOR JOINT USE ON LONG SPAN CONSTRUCTION, IF SPACING MEETS REQUIREMENTS OF CLAUSE 4.10.3.2 OF THE C.S.A. STANDARD C22.3 (SEE 2-5)
 - (d) SUITABLE FOR 12.8KV & 20KV CONSTRUCTION
 - (e) SUITABLE FOR CONVERSION TO THREE PHASE, JOINT USE ON SHORT SPAN CONSTRUCTION BY ADDING CROSSEARMS



DISTRIBUTION STANDARDS		 NEWFOUNDLAND POWER A FORTIS COMPANY
 PROVINCE OF NEWFOUNDLAND PERMIT HOLDER Class "B" This Permit Allows TRANSMISSION ENERGY TO POWER CO. LIMITED	12.5 & 25kV STRUCTURE TYPE "1A" 0° - 3° ANGLE	
To practice Professional Engineering in Newfoundland and Labrador Permit No. is issued by DNLR K6009 which is valid for the year 1998	Date: 98-10-30	Drawn: K.L.S.
App:	STD No. 11-10	