

**IN THE MATTER OF  
THE ENVIRONMENTAL ASSESSMENT ACT, S.B.C. 2002, c. 43 (the "Act")**

**AND**

**IN THE MATTER OF  
AN APPLICATION FOR AN ENVIRONMENTAL ASSESSMENT CERTIFICATE  
BY THE VANCOUVER ISLAND ENERGY CORPORATION (the "VIEC")**

**FOR THE  
VANCOUVER ISLAND GENERATION PROJECT (the "Project"),  
AT DUKE POINT, NEAR NANAIMO, BRITISH COLUMBIA**

**ENVIRONMENTAL ASSESSMENT CERTIFICATE E03-03**

**Whereas,**

- A. Under cover of a letter dated June 14, 2002, VIEC submitted to the Executive Director (the "Executive Director") of the Environmental Assessment Office (the "EAO") an application (the "Application") for a Project Approval Certificate (the "Certificate") under the former *Environmental Assessment Act*, R.S.B.C., 1996, c.119 (the "former Act") for the Project;
- B. VIEC is a wholly-owned subsidiary of British Columbia Hydro and Power Authority ("BC Hydro");
- C. The Project involves the construction and operation of a 265 megawatt combined-cycle, natural gas-fired power plant at Duke Point, near Nanaimo, and will be operated as a base load plant;
- D. The Application was under review by the Vancouver Island Generation Project Committee (the "former Project Committee") established pursuant to section 9 of the former Act. The former Project Committee included a representative from the Snuneymuxw First Nation, and representatives from federal and provincial government agencies and local governments;
- E. On December 30, 2002, pursuant to section 51(3) of the Act, the Project was transitioned to the environmental assessment process by Transition Order #02-17 and accepted as an application under section 16 of the Act;
- F. VIEC requires a Certificate of Public Convenience and Necessity from the British Columbia Utilities Commission before beginning to construct or operate the Project;



- G. VIEC is planning to obtain the water supply for the Project from Pope & Talbot Limited;
- H. VIEC is planning to treat the Project' s wastewater discharge using facilities owned by Pope & Talbot Limited;
- I. The Executive Director's delegate has determined that the public notification and consultation measures undertaken in relation to the Project were adequate;
- J. The Executive Director's delegate has determined that the First Nation notification and consultation measures undertaken in relation to the Project were adequate;
- K. The Executive Director's delegate reported on the potential effects of the Project in a report entitled, "The Vancouver Island Generation Project Assessment Report";
- L. The Executive Director has referred the Application, and the Assessment Report, the Recommendations of the Executive Director and Reasons for Recommendations pursuant to section 17 of the Act, to the Minister of Sustainable Resource Management (the "Minister"), the Minister of Energy and Mines (the "Responsible Minister"), and the Minister of Water, Land and Air Protection (hereafter the "Ministers"); and
- M. The Ministers have considered the Application, the Vancouver Island Generation Project Assessment Report, and the Recommendations of the Executive Director and Reasons for Recommendations.

Now Therefore,

The Ministers, pursuant to section 17(3) of the Act, hereby issue this Certificate to VIEC subject to the following conditions (the "Conditions"):

**A. Conditions**

- 1. VIEC must cause the Project to be designed, located, constructed and operated in accordance with the Conditions of this Certificate and the documents and correspondence listed in Schedule A (VIEC's commitments in Schedule A are summarized for ease of reference in Schedule B), and must comply with all of the Conditions of this Certificate to the reasonable satisfaction of the Minister.
- 2. Where, in the reasonable opinion of the Minister, there is a conflict or inconsistency between any of the documents listed in Schedule A,



Condition 1 must be interpreted so that the contents of the later dated document will vary, repeal, rescind or supersede, as the case may be, the contents of earlier dated documents listed in Schedule A.

3. Where, in the reasonable opinion of the Minister, there is a conflict or inconsistency between any of the documents listed in Schedule A and the Conditions which follow, these Conditions must take precedence over and supersede the contents of the documents listed in Schedule A.

4. Despite Condition 1 above, if prior to the start of full scale, commercial operation of the Project, VIEC proposes a material change to the design, location, construction, operation of the Project as described in the documents listed in Schedule A, and the change may have the potential for significant adverse effects, VIEC must then provide to the Executive Director:

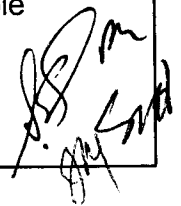
- (a) an application in writing to amend the Certificate pursuant to section 19 (1) of the Act; and
- (b) plans, analysis, records and other information necessary for an effective assessment by the Executive Director of the proposed change.

5. VIEC must:

- 5(1) Develop, under the direction of a qualified professional and in consultation with Pope & Talbot Limited, the Snuneymuxw First Nation, the Regional Manager, Regional Operations – Vancouver Island, Environmental Protection Division, Ministry of Water, Land and Air Protection, an ambient air monitoring program, to include stations at a minimum of three locations;
- 5(2) Implement the monitoring program referred to in Condition 5(1) as required by the Regional Manager, Regional Operations - Vancouver Island, Environmental Protection Division, Ministry of Water, Land and Air Protection;
- 5(3) Prior to the operation of the Project, seek comments from the Snuneymuxw First Nation, the Regional Manager, Regional Operations – Vancouver Island, Environmental Protection Division, Ministry of Water, Land and Air Protection and the Medical Health Officer, Vancouver Island Health Authority, on an emergency response plan that provides for rapid notification of residents in the area in the event of a hazardous spill or emergency and sets out what actions the public and the Snuneymuxw First Nation should be taking;

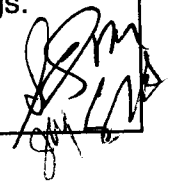


- 5(4) Complete the plan referred to in Condition 5(3) to the satisfaction of the Medical Health Officer, Vancouver Island Health Authority, and Regional Manager, Regional Operations – Vancouver Island, Environmental Protection Division, Ministry of Water, Land and Air Protection, before the start of the operation of the Project;
- 5(5) Retain, at the start of construction of the Project, an environmental monitor to oversee the implementation of environmental management commitments during construction of the Project and upgrading of the transmission line, and file a report on the implementation of these commitments to the Regional Manager, Regional Operations - Vancouver Island, Environmental Protection Division, Ministry of Water, Land and Air Protection, the Regional Environmental Stewardship Manager, Vancouver Island Region, Environmental Stewardship Division, Ministry of Water, Land and Air Protection, and the Snuneymuxw First Nation;
- 5(6) Prepare, in consultation with provincial government representatives identified by the Assistant Deputy Minister, Environmental Protection Division, Ministry of Water, Land and Air Protection, and the Snuneymuxw First Nation, a Greenhouse Gas Mitigation Plan (the "Plan") including details of BC Hydro's commitment to offset 50% of the Project's greenhouse gas emissions through 2010 for review and approval by the Assistant Deputy Minister, Environmental Protection Division, Ministry of Water, Land and Air Protection;
- 5(7) Submit, prior to the start of the operation of the Project, the Plan to the Assistant Deputy Minister, Environmental Protection Division, Ministry of Water, Land and Air Protection and the Snuneymuxw First Nation;
- 5(8) Provide, for each year during the life of the project, a progress report on carrying out the Plan to the Assistant Deputy Minister, Environmental Protection Division, Ministry of Water, Land and Air Protection and the Snuneymuxw First Nation;
- 5(9) Prepare, prior to the start of construction of the Project and with input from the Snuneymuxw First Nation, an Archaeological Monitoring and Management Plan, for review and approval by the Manager, Archaeology Permitting Section, Ministry of Sustainable Resource Management;
- 5(10) Retain, prior to the start of the construction of the Project, and with input from the Snuneymuxw First Nation, a qualified archaeologist, acceptable to the Manager, Archaeology Permitting Section, Ministry of Sustainable Resource Management, to monitor Project activities pursuant to the

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Archaeological Monitoring and Management Plan, and to have the authority to suspend construction or related development activities subject to the provisions of the *Heritage Conservation Act*;

- 5(11) Take appropriate mitigation measures in accordance with any impact management requirements determined by the Manager, Archaeology Permitting Section, Ministry of Sustainable Resource Management, and in consultation with the Snuneymuxw First Nation, in response to the results of the monitoring program; and
- 5(12) Establish, prior to beginning construction of the Project, a public advisory process, including identifying a contact person at BC Hydro's office in Nanaimo, to address noise concerns as a result of the Project's construction and operation.
6. Prior, to the start of the construction of the Project, the VIEC will recommend to the appropriate local or provincial government body that steps be taken to address the Snuneymuxw First Nation's concerns about safety at the intersections along MacMillan and Harmac Roads and specifically at the Longhouse Road intersection.
7. VIEC must consult the Snuneymuxw First Nation in the event that a major alteration to the Project is proposed which requires a significant amendment to this Certificate and which may significantly expand the generating capacity of the Project.
8. This Certificate is of no force or effect until signed by the Ministers.
9. This Certificate does not constitute a permit, licence, approval or any other authority required under any other enactment.
10. VIEC must, except in connection with granting security to Project lenders or other financing entities or financing facilities, obtain the written consent of the Minister, such consent not to be unreasonably withheld, prior to disposing, whether legally, beneficially or otherwise, of:
  - 1(a) this Certificate, or any right, title or interest conferred by this Certificate, or
  - 1(b) the Project.
  - 2 This Condition applies to any transfer of this Certificate in any bankruptcy, receivership, insolvency or other similar proceedings.



11. VIEC must have, in the reasonable opinion of the Minister, substantially started the construction of the Project within five years of the date of issue of this Certificate.
12. VIEC must submit written reports on the status of compliance with the Conditions of this Certificate to the EAO:
  - (a) two weeks prior to the start of the construction of the Project;
  - (b) prior to the start of the operation of the Project; and
  - (c) annually for five years after the start of the operation of the Project or until relieved of the obligation by the Executive Director.

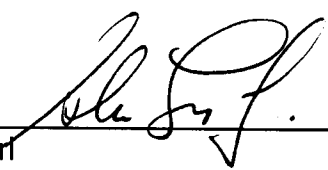
### **Suspension and Cancellation of Certificate**

This Certificate may be subject to cancellation, suspension in whole or in part, amendment, or the attachment of new Conditions, for any of the following reasons:

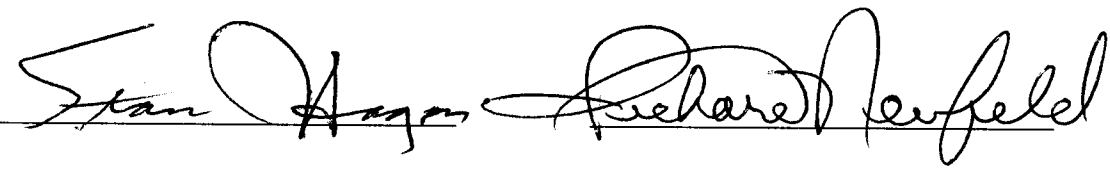
- (a) construction of the Project is not, in the reasonable opinion of the Minister, substantially started within five years of the date of issue of this Certificate;
- (b) the Minister has reasonable and probable grounds to believe that VIEC is in default of:
  - i) an order of the Courts under section 35(2), 45 or 47 of the Act;
  - ii) an order of the Minister made under section 34 or 36 of the Act; or
  - iii) one or more requirements or Conditions of this Certificate;
- (c) VIEC, or its officers or employees when acting on behalf of VIEC, have been convicted of an offence under the Act, with respect to the Project; or
- (d) an order is made or a resolution is passed, for the winding up, or dissolution of VIEC, or VIEC, is in receivership or bankruptcy proceedings, without such order or resolution being rescinded or stayed and, in the case of any of the foregoing, the Minister has reasonable and probable grounds to believe that a breach of, or default under, this Certificate has occurred or is likely to occur.



The Conditions of this Certificate are agreed to by VIEC this 27 day of November, 2003

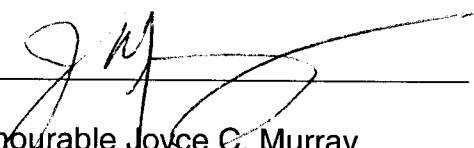


Glen Smyrl  
President, Vancouver Island Energy Corporation



Honourable Stanley B. Hagen  
Minister of Sustainable Resource  
Management

Honourable Richard I. Neufeld  
Minister of Energy and Mines



Honourable Joyce C. Murray  
Minister of Water, Land and Air Protection

Issued this 17<sup>th</sup> day of December, 2003, in Victoria, British Columbia.



## SCHEDULE A

### DOCUMENTATION AND CORRESPONDENCE SUBMITTED BY THE VANCOUVER ISLAND ENERGY CORPORATION (VIEC)

June 2002	Vancouver Island Generation Project (VIGP) - Application to the British Columbia Environmental Assessment Office, Volume I and II.
July 9, 2002	Letter from Lachlan Russel (VIEC) to Daphne Stancil (EAO) regarding the source of natural gas for VIGP, proposed construction schedule and comments on the health assessment from the Snuneymuxw First Nation.
October 28, 2002	VIEC submission replacing a paragraph in Section 15.4.3.1 on page 15-19 of the Application.
December 24, 2002	VIEC response to Health Canada regarding health effects of particulate matter.
January 7, 2003	VIEC report, "Review of Migratory Bird Issues on VIGP Transmission Upgrade," prepared by R. Bradley.
January 28, 2003	Email from VIEC confirming commitment to fund studies regarding potential avian impacts as a result of the proposed upgrade of the transmission line.
February 4, 2003	VIEC update of air quality monitoring data for the Nanaimo airshed.
February 17, 2003	VIEC reformatted response to include Health Canada's comments and VIEC responses regarding health effects of particulate matter.
February 24, 2003	VIEC response to revised written evidence of Bohdan (Dan) Hrebyenyk regarding analysis contained in the SENES report.
March 28, 2003	VIEC response to questions raised during the March 4, 2003 technical working group meeting regarding socio-economic issues.
April 9, 2003	Email from VIEC regarding 2002 particulate emission rate data from dissolving tank #6 at Pope & Talbot's Harmac pulp mill.
April 15, 2003	Email from VIEC committing to provide appropriate funding based on study results relating to the proposed upgrade of the transmission line.
May 7, 2003	Email from VIEC proposing a change in how BC Hydro would fulfil its commitment to offset greenhouse gas emissions for the VIGP.



**SCHEDULE B: SUMMARY OF COMMITMENTS AND MITIGATION MEASURES  
FOR THE VANCOUVER ISLAND GENERATION PROJECT**

AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
<b>PLANT CONSTRUCTION AND OPERATION</b>			
A Air Quality	<ul style="list-style-type: none"> <li>• Monitor ambient air for ozone, NO, NO<sub>2</sub>, and meteorological (met) data at Harmac-Cedar station on Woobank Road, and ozone, NO, NO<sub>2</sub>, PM<sub>10</sub> and met data at a location to be determined and in accordance with air discharge permit</li> <li>• Monitor continuous stack emissions of NO, CO, oxygen and ammonia in accordance with air discharge permit</li> <li>• Comply with BC emission criteria for gas turbines having a capacity greater than 25 megawatts in accordance with air discharge permit</li> </ul>	<p>Section 10.3.7</p> <p>Section 10.3.7</p> <p>Section 10.2.2</p>	<p>MWLAP</p> <p>MWLAP</p> <p>MWLAP</p>
B Ammonia & other potential hazards	<p>Emergency Response Plan</p> <ul style="list-style-type: none"> <li>• Prepare emergency response plan prior to operation</li> <li>• Monitor ammonia in storage area with results reported to control room</li> <li>• Install ammonia loading vapour recovery system</li> <li>• Take following measures for ammonia storage:               <ul style="list-style-type: none"> <li>- 150 cubic meter storage tank on-site (19% concentration)</li> <li>- Storage area to be bermed to contain 110% of ammonia tank</li> <li>- Water deluge system under manual control and normally closed</li> </ul> </li> <li>• Put in place preventive maintenance program for ammonia storage &amp; delivery systems</li> <li>• Professional drivers to deliver ammonia and other hazardous materials</li> </ul>	<p>Sections 3.2.4.6, 10.5</p>	<p>Nanaimo Fire Department; MWLAP; other agencies as required.</p>
C Noise Construction	<ul style="list-style-type: none"> <li>• Comply with City of Nanaimo Noise Control Bylaw 4750</li> <li>• Implement construction noise guideline</li> </ul>	<p>Section 11.1.3</p>	<p>City of Nanaimo</p>
	<ul style="list-style-type: none"> <li>• Establish a public relations &amp; education process to advise community about noise impacts and mitigation. Public contact phone number and liaison to be identified.</li> </ul>	<p>Section 11.1.1</p>	<p>City of Nanaimo</p>
	<ul style="list-style-type: none"> <li>• Full acoustical enclosure for the gas turbine and partial acoustical enclosure for the steam turbine</li> <li>• Meet maximum 55 decibel noise specifications measured at a distance of 100 m from the plant fence line during normal and part load operation</li> <li>• Conduct 24 hour noise test after commissioning to verify compliance with plant noise specification</li> </ul>	<p>Sections 11.1.1 and 11.1.5</p>	<p>City of Nanaimo</p>

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
<i>Occupational Exposure</i>	<ul style="list-style-type: none"> <li>Undertake further mitigation measures for specific sources if noise level out of compliance</li> <li>Worker exposure to noise not in excess of 85 decibels for an 8-hour period, as per Workers Compensation Board requirements</li> </ul>	Section 11.1.1.2	WCB
D Greenhouse gas management	<ul style="list-style-type: none"> <li>BC Hydro to offset 50% of the increase in GHG emissions from VIGP through year 2010 through new energy efficiency and renewable energy efforts</li> <li>Develop a GHG mitigation plan</li> <li>Submit annual reports to MWLAP and Snuneymuxw First Nation identifying progress on implementing GHG mitigation plan</li> </ul>	Section 10.6.5	MWLAP
E Water Surface water during construction	<ul style="list-style-type: none"> <li>Implement storm water management plan for construction:                             <ul style="list-style-type: none"> <li>settling pond and other measures to prevent deleterious materials associated with construction to enter downstream watercourses</li> <li>test water discharged from settling pond as required by MWLAP</li> <li>implement sediment and erosion control measures</li> </ul> </li> </ul>	Sections 11.22., 11.2.3, 11.2.5, Appendix J	MWLAP & DFO
<i>Wastewater and runoff during operation</i>	<ul style="list-style-type: none"> <li>Implement storm water management plan for operation phase</li> <li>Process wastewater to be discharged to Harmac mill effluent system</li> <li>Combined effluent treated and discharged to outfall in compliance with Harmac permit</li> <li>Monitor effluent discharges to off-site treatment for flow rate, ph, conductivity and temperature and set up process for communication of this data to Harmac mill</li> <li>Sewage to be treated in packaged treatment unit; effluent discharged to Harmac outfall</li> </ul>	Sections 11.2.3, 3.2.4.2, 11.3.6 Appendix J	MWLAP
<i>Water Supply</i>	<ul style="list-style-type: none"> <li>Monitor water use during operation</li> </ul>	Section 11.4.5	MWLAP
F Aquatic Resources Construction	<ul style="list-style-type: none"> <li>Sediment control including settling pond</li> <li>Maintenance of similar drainage patterns</li> <li>Monitoring by qualified biologist during construction, as needed</li> <li>See conceptual stormwater management plan in Appendix J of the Application</li> </ul>	Sections 11.5.1, 11.5.1.1, 11.5.2 Appendix J	MWLAP
<i>Operation</i>	<ul style="list-style-type: none"> <li>Landscape and revegetate plant site</li> <li>Maintenance of similar drainage patterns</li> </ul>	Sections 11.5.1, 11.5.1.1, 11.5.2	MWLAP

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
G	<ul style="list-style-type: none"> <li>See conceptual stormwater management plan in Appendix J of the Application</li> <li>Conduct field survey prior to construction and relocate wildlife if required</li> <li>Identify nest trees and associated no disturbance zones for noise</li> <li>Monitor eagle's nest during construction activities</li> <li>Meet mitigation strategies set out in MWLAP's Best Management Practices and Requirements for Land Developments, as required</li> <li>Construct nesting boxes to compensate for loss of vegetation attributes, if any</li> <li>Qualified biologist to monitor construction, as needed</li> <li>Consult with MWLAP on construction and blasting (if any) times</li> <li>Amphibian salvage effort is recommended</li> <li>Proposed retention period be sufficiently complex if it is to function as wildlife habitat</li> <li>None</li> </ul>	Appendix J  Sections 11.5.1, 11.5.1.2, 11.5.2	MWLAP
H	<ul style="list-style-type: none"> <li>None</li> </ul>		
I	<ul style="list-style-type: none"> <li>Landscape and replant site with suitable vegetation.</li> <li>Storm water management plan to minimize soil erosion during construction</li> <li>Strip and conserve A and B soil horizons during site preparation for plant site and construction laydown area</li> <li>Obtain appropriate approvals for transport and disposal of excess soils off-site</li> </ul>	Section 11.5.1, 11.5.1.3 Section 11.6.1	MWLAP MWLAP
J	<ul style="list-style-type: none"> <li>Qualified archaeologist to monitor initial site clearing and preparation to ensure appropriate handling of exposed archaeological resources, should this occur</li> </ul>	Section 11.7.3	MSRM
K	<ul style="list-style-type: none"> <li>Waste minimization, reuse and recycling</li> <li>Handling and disposal of hazardous wastes as per government regulations</li> <li>WHMIS for worker protection</li> </ul>	Section 11.8	MWLAP, Regional District of Nanaimo.
L	<ul style="list-style-type: none"> <li>Provide information on opportunities and requirements to enable interested individuals, including members of the Snuneymuxw First Nation, to prepare for potential</li> </ul>	Section 16.2	

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
M	<p>employment</p> <ul style="list-style-type: none"> <li>Shape recruitment policies in a manner that facilitates participation by qualified local residents</li> <li>Encourage involvement of local businesses in providing competitively priced goods</li> <li>Provide potential local suppliers with information about project requirements</li> <li>Hold an open house for contractors prior to construction and operation</li> </ul>	Section 16.2	
N	<p>Transportation</p> <ul style="list-style-type: none"> <li>Truck deliveries to normally occur between 8:30 a.m. and 4:30 p.m. weekdays</li> <li>Advance notice of large deliveries and deliveries coordinated with Ministry of Transportation</li> <li>On-site parking during construction and operations</li> <li>Adhere to road weight restrictions</li> <li>Provide City of Nanaimo and emergency service providers with information regarding transportation routes and traffic volumes</li> <li>Discuss transportation details with the City of Nanaimo</li> </ul>	Section 16.5	MOT, City of Nanaimo Emergency Service Providers
O	<p>Emergency Services</p> <ul style="list-style-type: none"> <li>Comply with applicable government and industrial insurance underwriters' guidelines and recommendations regarding fire and explosion hazards</li> <li>Have adequate fire water pressure and fire fighting equipment at site</li> <li>Ensure fire prevention measures outlined in the environmental protection plan, emergency response plan, fire contingency plan and, during operations, relevant portions of the operations and maintenance manual, are followed</li> <li>Provide relevant portions of above plans and tour to key local emergency service providers and Harmac emergency services</li> <li>Apprise Westcoast marine detachment of the timing of ship movements related to this project</li> <li>Apprise RCMP of delivery schedules, anticipated traffic volumes, shift schedules and construction schedule</li> <li>Fencing around the project site</li> <li>24 hour access to the site for the Nanaimo RCMP</li> <li>Personnel trained in industrial first aid will be on-site</li> </ul>	Section 16.6	Emergency Service Providers

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
P	<ul style="list-style-type: none"> <li>Ensure that regulations and guidelines relating to air and water emissions, transportation of dangerous goods and noise are met at all times</li> <li>Have staff trained in industrial first aid on-site</li> <li>Enforce occupational, health and general safety procedures</li> <li>Develop an emergency response plan</li> <li>Develop employee orientation/safety training</li> </ul>	Section 16.7	MWLAP, City of Nanaimo and Other agencies, are required.
Q	<ul style="list-style-type: none"> <li>Provide Malaspina College with information about construction and operations employment</li> </ul>	Section 16.8	Malaspina College
R	<ul style="list-style-type: none"> <li>Consult landscape architect</li> <li>Use directional lighting, low intensity lighting, and visual screening where possible</li> <li>Consult interested parties regarding transmission line pole placement as requested</li> </ul>	Section 16.10	
<b>POWER TRANSMISSION LINE CONSTRUCTION AND OPERATION</b>			
A	<ul style="list-style-type: none"> <li>Stockpile topsoil for later replacement</li> <li>Minimize soil erosion on right of way through diversion berms, french-drains and erosion mats as needed</li> <li>Restrict traffic to one route on right of way</li> <li>Undertake appropriate soil restoration</li> </ul>	Section 12.1.2	
B	<ul style="list-style-type: none"> <li>Qualified biologist to monitor construction, as needed</li> <li>Develop a sediment and erosion control plan</li> <li>Limit loss of riparian vegetation by reducing distance between existing and bypass conductors</li> <li>Prepare restoration and revegetation plan</li> </ul>	Section 12.2.2	MWLAP
C	<ul style="list-style-type: none"> <li>Where possible, use horizontal conductor configuration and visual aids on lines along migratory bird paths</li> <li>Use perimeter fencing where possible to limit disturbances to sensitive ecosystems</li> <li>Minimize right of way expansion</li> <li>Limit construction activities to road network (where possible)</li> <li>Consult with MWLAP on construction and blasting (if any) times</li> <li>Monitoring by qualified biologist during construction, as needed</li> <li>Provide nesting boxes for any loss of old growth attributes</li> <li>Restore soils, revegetate and landscape site with native species</li> </ul>	Section 12.3.1	MWLAP

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
D	<ul style="list-style-type: none"> <li>• Provide funding to undertake a baseline study to determine effects of existing transmission line upon birds using the area and a post construction bird strike monitoring study to determine any incremental effects from the upgrade</li> <li>• Develop a mitigation/compensation plan to address any residual effects from the transmission line upgrade as identified by studies referred to above</li> <li>• Identify and delineate sensitive ecosystems and rare species prior to construction activities</li> <li>• Machinery and traffic to use existing roadways in areas with sensitive ecosystems or rare species and, otherwise to stay within right of way</li> <li>• Prevent or minimize loss of sensitive ecosystems</li> <li>• Prevent placement of new towers in sensitive ecosystems</li> </ul>	Section 12.4.2	MWLAP
E	<ul style="list-style-type: none"> <li>• Where possible, place new supporting poles to minimize visual impacts</li> </ul>	Section 12.5.2	
F	<ul style="list-style-type: none"> <li>• Mark and avoid known sites</li> <li>• During construction, qualified archaeologist to monitor areas with archaeological potential</li> </ul>	Section 12.6.3	MSRM
G	<ul style="list-style-type: none"> <li>• Coordinate transmission line construction activities and trail development at Chase River park with City of Nanaimo and park interest groups</li> <li>• Contribute materials and possible equipment time for trail development at Chase River park</li> <li>• Coordinate transmission line construction and development of Harewood tap area with appropriate groups</li> <li>• Post signs and close areas to public use to minimize conflicts and safety hazards</li> <li>• Provide alternative facilities (trails and parking) as required at Harewood tap</li> <li>• Restore any residual impacts to recreational facilities and natural features</li> </ul>	Section 12.7.2	City of Nanaimo, Trans Canada Trail Committee, BC Hydro Regional Office, Weyerhaeuser Ltd.

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AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
H	<ul style="list-style-type: none"> <li>• Where feasible, locate new poles near existing ones</li> <li>• Coordinate and adjust, to extent feasible, schedule, methods and design to minimize disruption of commercial activities</li> <li>• Interact with farmers to minimize impact to agricultural land and compensate for losses resulting from construction of towers</li> <li>• Implement procedures to minimize impacts to soils</li> <li>• Limit working hours to minimize impacts on residences</li> </ul>	Section 12.8.3	
<b>NATURAL GAS PIPELINE CONSTRUCTION AND OPERATION</b>			
A	<ul style="list-style-type: none"> <li>• Salvage and stockpile productive surface material /topsoil layer for replacement following construction</li> <li>• Control of surface, subsurface and ditch line water flows such as:               <ul style="list-style-type: none"> <li>- Re-establishment of vegetative mat along right-of-way</li> <li>- Surface diversion berms</li> <li>- French drains/riprap/ logs</li> </ul> </li> <li>• For chemical or hydrocarbon spills, environmental incident response standard practice instructions to be followed, appropriate absorbents will be readily available and all contaminated soils to be removed and replaced</li> <li>• Vehicle spot checks to minimize likelihood of transporting noxious weeds or insects into the area</li> </ul>	Section 13.1.3	MWLAP
B	<ul style="list-style-type: none"> <li>• Protection of trees that are to be retained by means such as marking and/or fencing of trees</li> <li>• Use of indigenous seed mix to reseed row</li> <li>• Designation of access routes and travel lanes to restrict vehicle traffic on row</li> <li>• Dispose of woody debris in an environmentally sensitive manner</li> <li>• Avoid alterations to existing hydrological patterns</li> <li>• Limit clearing to minimum area required for construction to minimize amount of vegetation to be removed</li> <li>• Minimize blasting &amp; resloping of bank cuts wherever possible</li> <li>• Revegetate banks as soon as practical to minimize erosion</li> </ul>	Section 13.2.2	MWLAP
C	<ul style="list-style-type: none"> <li>• Terasen Gas to ensure its employees and its construction</li> </ul>	Section 13.4	MWLAP

**SCHEDULE B: SUMMARY OF COMMITMENTS AND MITIGATION MEASURES  
FOR THE VANCOUVER ISLAND GENERATION PROJECT**

AREA	COMMITMENTS	REFERENCE TO APPLICATION	AGENCY CONTACT
D	<p>contractors follow Terasen's standard of practice instructions to minimize sedimentation and prevent toxic substances from entering surface waters</p> <ul style="list-style-type: none"> <li>• Implement breeding bird &amp; raptor management plan for passerine and Raptors</li> <li>• Implement amphibian management plan</li> <li>• Implement small mammal management plan</li> <li>• Consult with MWLAP on construction and blasting (if any) times</li> </ul>	<p>Section 13.3.2.1</p> <p>Section 13.3.2.2</p>	<p>MWLAP</p> <p>MWLAP</p>
E	<ul style="list-style-type: none"> <li>• None</li> </ul>		MSRM