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Burnaby, BC  
V3N 4X8

November 24, 2025

[REDACTED]  
[REDACTED]  
[REDACTED]  
[REDACTED]

via email: [REDACTED]

**RE: CEAP IR #9 – [REDACTED] – Interconnection Feasibility Study**

Dear [REDACTED]

Enclosed is the Interconnection Feasibility Study for the proposed Interconnection Request (IR), [REDACTED], submitted under Attachment M-2: Transmission Service and Interconnection Service Procedures for Competitive Electricity Acquisition Process (CEAP) of the Open Access Transmission Tariff (OATT). This letter provides a non-binding good faith estimate of the cost and time to construct the facilities required to interconnect your project to BC Hydro's Transmission System, being the Network Upgrades, based on the findings of the Interconnection Feasibility Study.

### **Open Access Transmission Tariff**

The OATT defines Network Upgrades as additions, modifications, and upgrades to BC Hydro's Transmission System required at or beyond the Point of Interconnection (POI) to accommodate the interconnection of the Generating Facility to the BC Hydro's Transmission System. Pursuant to the OATT, BC Hydro will design, procure, construct, install, and own the Network Upgrades. While BC Hydro will pay the costs for the Network Upgrades, the Interconnection Customer provides security for such costs.

### **Interconnection Study Costs**

The Interconnection Customer is responsible for paying the full cost of all Interconnection Studies in cash. Interconnection Study costs vary depending on the scope, complexity, and other factors such as whether any scope is shared with another Interconnection Customer (not applicable to this Interconnection Feasibility Study). The deposit amounts specified in the OATT are not proxy Interconnection Study costs. If actual Interconnection Study costs exceed the deposit amount, the Interconnection Customer must pay the remaining balance in cash. Please refer to the answer for question no. 53 in the posted [Questions & Answers for 2025 Call for Power](#) for typical study cost ranges.

### **Cost Estimate**

Based on the Interconnection Feasibility Study, the non-binding good faith estimated cost (typical accuracy range of +150%/-50%) for Network Upgrades required to interconnect your project is \$91.7 M.

**Major Scope of Work Identified:**

- Expand the substation and extend the existing 287kV bus structure, and add one 287 kV line position with associated substation equipment at BC Hydro Tatogga substation (TAT)
- Terminate the Interconnection Customer's line at TAT
- Upgrade series capacitors at BC Hydro Bob Quinn substation (BQN)
- Upgrade required substation facilities, infrastructures, and bus work to support new station(s) equipment, including expansion of the station footprint
- Supply and install required Protection, Control and Telecommunications equipment

**Exclusions:**

- GST
- Permits
- Right-of-Way & property costs
- Worker camp cost

**Key Assumptions:**

- Construction by contractor
- 24 months of construction is considered
- No construction during winter season
- Execution of early Engineering and Procurement Agreement
- No expansion of control buildings to accommodate new equipment
- Impact Benefit Agreements with First Nations are not considered

**Key Risks:**

- Expansion of the existing control building may be required leading to increased costs and/or a longer project schedule
- Major equipment delivery presents potential project cost and schedule risks, based on variance in equipment lead times
- No defined supply chain strategy; construction costs may increase depending on delivery method
- Project schedule may be longer than expected, leading to increased overhead costs
- Ground improvements may be required leading to increased construction costs
- Contaminated soil may be encountered leading to increased construction costs
- Cost of materials and major equipment may be affected by market conditions and escalation

**Study Limitations and Exclusions*****Protection, Control, and Telecommunications***

The Interconnection Feasibility Study does not include a detailed review of the protection, control, and telecommunications system requirements specific to your Interconnection Request. Based on a high-level review, we have identified proxy costs for protection, control, and telecom Network Upgrades drawn from comparable interconnection projects with similar scope and complexity; these proxy costs have been included solely for indicative budgeting purposes. The relative interconnection cost determined by the Interconnection Feasibility Study includes a telecommunications component based on an assumed solution to deliver teleprotection and telecontrol circuit requirements necessary for the Interconnection Request.

Protection, control, and telecommunications system requirements will be reviewed in detail in the System Impact Study if you are a successful participant of the CEAP and meet applicable requirements.

For Interconnection Feasibility Study purposes, it is assumed that any applicant-proposed works that could obstruct or impair the performance of existing BC Hydro microwave systems or new links from the proposed Interconnection Customer Interconnection Facilities (ICIF) to the BC Hydro microwave system would be identified and either relocated or repositioned as determined in a System Impact Study if you are a successful participant of the CEAP and meet applicable requirements. Such works may include, but are not limited to, towers, turbines, dams, support structures, panels, surface materials deposited or redistributed, water surface changes, or vegetation.

### ***Generation Shedding/Curtailment Scheme and Electromagnetic Transient (EMT) Studies***

The generation shedding/curtailment scheme reviews (e.g., Remedial Action Scheme (RAS), and a direct transfer trip for anti-islanding scheme) and EMT studies are completed in a System Impact Study. The outcomes of these studies may result in additional requirements, which could include Network Upgrades or ICIF. Any costs associated with completion of these studies, and resulting requirements, are not included in the Interconnection Feasibility Study cost estimate.

### ***Revenue Metering***

Please note that revenue metering requirements have not been determined with the Interconnection Feasibility Study. As such, any costs associated with revenue metering and other interconnection components are not included in the cost estimate provided above. Once these requirements are defined, costs that are attributable to the Interconnection Customer are to be paid in cash. For more details on revenue metering requirements and responsibilities, please refer to:

<https://www.bchydro.com/content/dam/BCHydro/customer-portal/documents/distribution/standards/ds-rmr-complex-revenue-metering.pdf>.

### **Schedule**

Based on the Interconnection Feasibility Study, the non-binding good faith estimated in-service date for your Interconnection Request's Network Upgrades is Quarter 3 2032 (calendar year). To achieve this timeline, we may need to expedite certain activities, including engineering design and procurement of long-lead equipment.

Timely actions required from you to minimize risks to the schedule:

- Submission of additional technical data required for the System Impact Study and Facilities Study
- Submission of any required information or document such as demonstration of Site Control
- Execution of Combined Study Agreement and Standard Generator Interconnection Agreement
- Financial commitments and securities

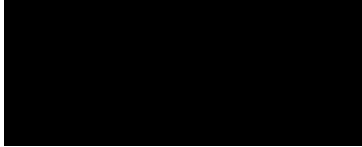
Since your proposed POI is located within the North Coast Transmission Line Region, the interconnection of your IR has been determined, at this time, to be dependent upon the completion of the North Coast Transmission Line (NCTL) project.

Accordingly, please note the 2025 Call for Power Addendum 5 and revised Specimen EPA specify that the Guaranteed Commercial Operation Date for a project which is dependent upon the completion of NCTL will be October 1, 2033, notwithstanding that the Interconnection Feasibility Study report may indicate an earlier date.

Please note that changes to your IR or delays in data submission or financial commitments may also impact the target in-service date. Please note that changes to your Interconnection Request or delays in data submission or financial commitments may also impact the target in-service date.

If you have any questions, please contact the BC Hydro CEAP team at [ceap2025@bchydro.com](mailto:ceap2025@bchydro.com).

Sincerely,



Manager, Customer Interconnections

BC Hydro

Encl.: CEAP\_2025\_IR9\_ \_Feasibility\_Study.pdf

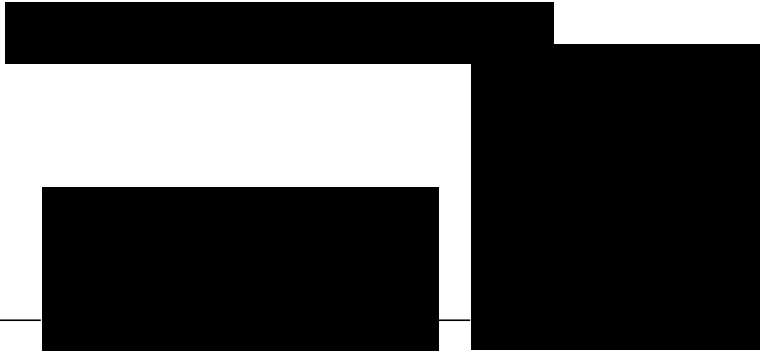


# Interconnection Feasibility Study

**BC Hydro EGBC Permit to Practice No: 1002449**

**2025 CEAP IR # 9**

Prepared for:



Prepared by:



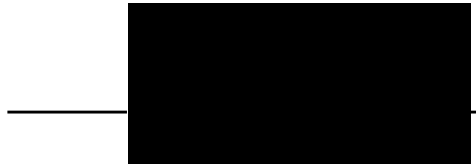
Planning Coordinator & Bulk Planning

Reviewed by:



Engineering Team Lead, Planning  
Coordinator & Bulk Planning

Accepted by:



Manager, Transmission Planning

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Date: 2025 Nov 21  
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## Revisions

Revision	Date	Description
0	2025 Nov	Initial release

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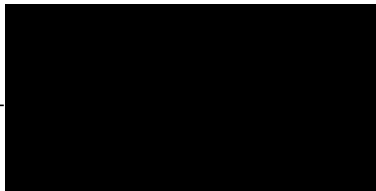
## Contributors

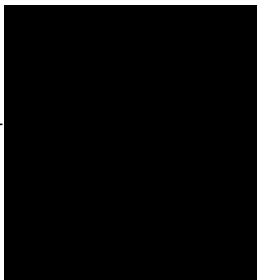
The following accept responsibility for the content in the specified sections. Professionals apply their signature and/or seal as appropriate.

**Section:**  
The entire report  
except those  
listed below

**Discipline:**  
Transmission Planning

Contributed by:

  
\_\_\_\_\_  
Planning Coordinator & Bulk Planning



**Section:**  
**5.2, 5.3**

**Discipline:**  
Stations Planning

Contributed by:

  
\_\_\_\_\_  
  
Sr. Engineer, Stations Growth and  
Sustainment





5. The new wind generators at [REDACTED] are required to participate in the existing North Coast generator shedding RAS to address voltage stability concerns and facility overloads during contingencies.
6. Anti-islanding protection is required for [REDACTED] and shall be configured in the manner that does not compromise the required ride-through performance.
7. The proposed [REDACTED] is required to have the dynamic reactive power capability at a minimum of +/- 33% of its MPO from the plants at the high-voltage side of the switchyard over the full MW operating range, per BC Hydro's TIR Section 6.4.2. Based on the IC-submitted PSS/E model, the proposed [REDACTED] meets the reactive capability requirement above.
8. The "reactive power at zero output" mode, such as "STATCOM option", is required so that each turbine inverter can provide reactive power capability at zero MW output.
9. Fast Frequency Response, also known as Virtual Inertia Control (VIC) in the proposed wind turbines, is required at the [REDACTED]. The proposed wind turbine generators, when equipped with the VIC option, are expected to temporarily boost the MW output to limit the system frequency drop during a major frequency event. The VIC settings should be determined in coordination with BC Hydro in the later stage of the call process.

The above conclusions are made based on the IC's input data and study assumptions listed in Section 4, which represent the best available information on October 14, 2025.

A non-binding good faith cost for required network upgrades and estimated schedule for construction are included in a separate letter to the IC.

Please note that, this Feasibility Study report does not include the descriptions of Protection, Control, and Telecommunications requirements and the associated upgrade scopes; however, as discussed in Section 2 "Purpose and Scopes of Study, the associated cost implications are captured and delivered in the cover letter to the IC".

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## Appendices

Appendix A	Schematic Diagram of the IC's Project
Appendix B	Power Flow Study Results
Appendix C	One-Line Sketch for Switching Station Expansion

## Acronyms

The following are acronyms used in this report.

BCH	BC Hydro
BQN	Bob Quinn Switching Station
CEAP	Competitive Electricity Acquisition Process
COD	Commercial Operation Date
DTT	Direct Transfer Trip
ERIS	Energy Resource Interconnection Service
FeS	Feasibility Study
IBR	Inverter-Based Resources
IC	Interconnection Customer
IR	Interconnection Request
MPO	Maximum Power Output
NERC	North American Electric Reliability Corporation
NRIS	Network Resource Interconnection Service
OATT	Open Access Transmission Tariff
POI	Point of Interconnection
RAS	Remedial Action Scheme
TAT	Tatogga Switching Station
TIR	BC Hydro “60 KV to 500 kV Technical Interconnection Requirements for Power Generators”
WECC	Western Electricity Coordinating Council
WTG	Wind Turbine Generator
EDM	Edmonds Office
FVO	Fraser Valley Office
SIC	South Interior Control
SIO	South Interior Office

# 1 Introduction

The project reviewed in this feasibility study is as described in Table 1 below.

Table 1-1: Summary Project Information

Project Name	[REDACTED]	
Proponent Name	[REDACTED]	
Point of Interconnection	Tatogga Substation 287kV	
Applicant Proposed COD	29 September 2031	
Type of Interconnection Service	NRIS <input checked="" type="checkbox"/>	ERIS <input type="checkbox"/>
Maximum Power Injection at POI (MW)	193 (Summer)	193 (Winter)
Maximum installed Capacity (MW)	203 (Summer)	203 (Winter)
Number of Generator Units	29 x 7 MW	
Plant Fuel	Wind	

[REDACTED] the interconnection customer (IC), requests to interconnect its [REDACTED] to the BC Hydro system. [REDACTED] has sixty (29) the proposed [REDACTED] type-3 wind turbine generators, with a maximum power injection of 193 MW into the system at the Point of Interconnection (POI) on BC Hydro's 287 kV bus in Tatogga (TAT) Substation.

Figure 1-1 shows the Bob Quinn region 287/138 kV transmission system diagram. The interconnection point of TAT 287 kV is radially fed from Bob Quinn (BQN) substation which is connected to Skeena (SKA) substation through Treat Creek (TCT) substation via a single 287 kV transmission circuit. SKA substation is connected to the 500kV system. Customer's system topology behind the Point of Interconnection is provided in the Appendix, Figure 1-1.

The line between BQN and TCT has a series capacitor installed at BQN to increase transfer capability. The continuous facility rating of the BQN series capacitor 2CX1 is 323 MVA (650A).

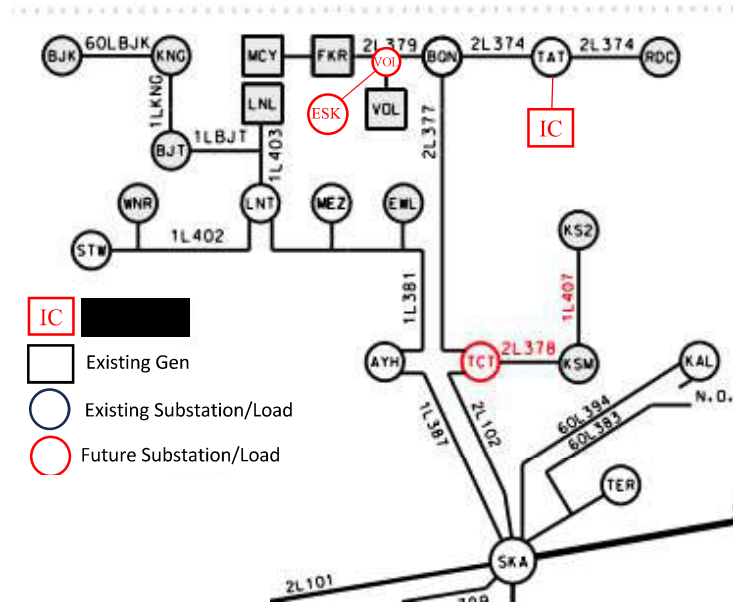


Figure 1-1: Bob Quinn region 287/138 kV Transmission System Diagram

## 2 Purpose and Scopes of Study

This Feasibility Study is a preliminary evaluation of the system impact of interconnecting the proposed project to the BC Hydro system based on power flow and short circuit analysis in accordance with BCH's Open Access Transmission Tariff (OATT) and produces the estimated cost of required Network Upgrades and the implementation schedule.

Per OATT, the feasibility study is performed individually for each of the participating projects in the CEAP process and focuses specifically on the BC Hydro regional transmission system where the proposed generating project is connected and affects.

This is a "limited scope" study which is restricted to power flow studies of Categories P0, P1, and P2 planning events as defined in TPL-001-4 Table 1 and short circuit analysis. The study does not address other technical aspects such as transient stability and switching transients and impact of multiple contingencies. These subjects would be addressed in subsequent System Impact Study if the project proceeds further. In addition, any potential impacts to the adjacent external systems to BC Hydro be addressed in subsequent detailed and coordinated studies with the relevant adjacent entities if the proposed interconnection proceeds further.

Please note that, due to the compressed study timeline for CEAP 2025 Feasibility Study, this report does not include the descriptions of the Protection, Control, and Telecommunication requirements and the associated upgrade scopes. Instead, the network upgrades associated with Protections, Controls and Telecommunications are incorporated with cost estimates in a separate cover letter to the IC.

### 3 Standard and Criteria

The Feasibility Study is performed in compliance with the North American Electric Reliability Corporation (NERC) and Western Electricity Coordinating Council (WECC) reliability standards, and the BCH interconnection requirements in the TIR, and upon the ratings of the existing BCH transmission facilities described in Operating Orders, specifically:

- NERC standards: TPL-001-4 and FAC-002-3 relevant to the scope of this Feasibility Study.
- WECC criteria TPL-001-WECC-CRT-4 Transmission System Planning Performance, July 1, 2023.
- BC Hydro's 60 kV to 500 kV Technical Interconnection Requirements for Power Generators.
- BC Hydro Operating Order 5T-10, Ratings for All Transmission Circuits 60 kV or Higher, Sept 17, 2025.
- BC Hydro Operating Order 5T-14, Ratings for All Transmission and Distribution Transformer, Sept 22, 2025.
- BC Hydro System Operating Order 7T-22 System Voltage Control, October 7, 2025.

## 4 Assumptions and Conditions

The study is performed based on the customer's study data form submitted on or before the CEAP IR submission date, which is Oct 14, 2025. Assumptions are made wherever the customer's input is not available. Appendix A shows the plant single line diagram for the IC's project used in the study model.

The power flow study cases used in this Feasibility Study are established based upon the BC Hydro's base resource plan and load forecasts available at the time of performing the study, which includes existing and future generations, transmission facilities, and loads in addition to the subject interconnection project in this study. Applicable seasonal conditions and the appropriate study years for the study planning horizon are also incorporated.

Additional assumptions are listed as follows.

1. The generation in the study area are dispatched to the patterns that stress the transmission system in the study area. In these patterns, the associated generators are typically set to their Maximum Power Outputs (MPO) unless otherwise specified.
2. Use of the latest August 2025 distribution load forecast, reference system coincident forecast and reference TVC.
3. Planned transmission reinforcement projects in the study area.
  - Prince George to Terrace series Capacitor project to be installed in existing lines 5L61, 5L62 and 5L63.
  - New 500kV lines PGGT: 5L64, GTTT: 5L65& 5L66 (WSN to SKA).
  - Other system reinforcements in the regional system triggered by future customers are also considered in the study.

## 5 System Studies and Results

Based upon the IC's submitted information and the area system conditions, expansion of the existing switching station Tatogga as the proposed POI and reinforcement at Bob Quinn substation are required to interconnect the IC's generating project to the BCH system. Details of the study results and reinforcement scopes are provided in the subsections below.

### 5.1 Power Flow Study Results

Steady-state power flow studies have been conducted with the focus on the 32LS system condition, taking into considerations the COD of this Wind Project and factors such as load conditions, seasonal variation in ambient temperatures, and generation patterns that stress the transmission system. The 31HW and 32HS cases are also checked to capture any performance violations over other seasons following the ISD. 32HW has been studied too to consider the transmission reinforcement planned for late 31HW.

The studies are performed under system normal conditions and after critical system contingencies in this area as specified in the P1 and P2 events by NERC TPL-001-4. Study results are summarized below.

#### 5.1.1 Thermal Overload Analysis

For all the studied load conditions (31HW, 32HS, 32LS and 32HW), there is an overload identified under system normal condition (P0) on the BQN series capacitor. Facility rating upgrade of BQN series capacitors is required to integrate the ██████████ plant.

Single contingency of loss of Red Chris load will exacerbate the overload on the BQN capacitor banks. No other transmission elements experienced overloads during the contingency analysis.

Thermal upgrade of BQN series capacitors to minimum of 915 Amps (455 MVAR) is required to mitigate the overload during normal operation and contingencies after the connection of ██████████ plant.

Table 5-1 provides summary of branch overloads observed in the study. Detail power flow study results are provided in Appendix B, Table B-1.

Table 5-1: Summary of Branch Loading Analysis Results

Case	Contingency Identified		Branch Loading		
	Category	Description	Branch	Load MVA	Loading%
31HW	P0	System Normal	BQN SC	339.2	105
	P1	RDC OOS	BQN SC	449.0	139
32HS	P0	System Normal	BQN SC	365.0	113
	P1	RDC OOS	BQN SC	450.1	139
32LS	P0	System Normal	BQN SC	419.3	130
	P1	RDC OOS	BQN SC	452.2	140
32HW	P0	System Normal	BQN SC	343.5	104
	P1	RDC OOS	BQN SC	450.1	139

### 5.1.2 Steady-State Voltage Analysis

For all the studied load conditions (31HW, 32LS, 32HS & 32HW), the voltage performance under system normal condition (P0) is acceptable, P1, P2 and the analysed P4 contingencies also show acceptable voltages in all the buses. Detailed steady-state voltage performance results are provided in Appendix B, Table B-2.

### 5.1.3 Reactive Power Capability Evaluation

The BCH TIR requires IBR generators have the dynamic reactive power capability at a minimum of +/- 33% of its Maximum Power Output (MPO) at the high voltage side of the IC’s switchyard over the full MW operating range.

Based on the PSS/E power flow data submitted for this project, the study finds that the proposed generating project can meet the BC Hydro’s reactive capability requirement.

In addition, according to the IC-provided reactive capability data, the proposed WTG would provide +/- 1.7 MVAR reactive capability at the zero MW output and 1.0 p.u. terminal voltage (per generator) if the turbine’s “STATCOM” function is enabled. This function needs to be re-confirmed if the IC’s project proceeds to next stage of the call process.



- Terminate the [REDACTED] customer line.
- Other associated station work, e.g. civil work, cable running, grounding, connections, etc.

### **BQN Substation**

- Upgrade the existing capacitor bank 2CX1 to the ultimate stage. The bank existing current rating is 650A and is required to be upgraded to minimum of 915 A.
- The bank was built to be upgraded to the ultimate stage without the replacement of the existing equipment. The upgrading will require only the addition of capacitor cans and MOV units up to the ultimate stage. Equipment engineers will assess the feasibility of upgrading the 2CX1 series capacitor bank in the next stage of the project.
- One line diagram will be provided at the next stage.

## 6 Cost Estimate and Schedule

The non-binding good faith estimated cost and time to construct the Network Upgrades required to interconnect the proposed project will be provided in a separate letter to the IC.

## 7 Conclusions

To interconnect the ██████████ and its facilities to the BCH Transmission System at the POI, this Feasibility Study has identified the following conclusions and requirements:

1. Feasibility study indicates that connecting the plant to a 287kV bus at TAT is acceptable after system reinforcement requirements as shown below.
2. Facility rating upgrade of BQN series capacitors to 915 Amps is required to mitigate the overload during normal operation after the connection of ██████████. Series capacitor protection devices, for example, Metal Oxide Varistors (MOV) may need to be upgraded due to rating change. BC Hydro equipment engineers will evaluate the feasibility of this upgrade in the next phase of the project.
3. The Tatogga Substation requires the expansion of the existing 287kV switchyard within the limits of the current property boundaries to accommodate the integration of the ██████████. The scope includes installing a 287kV line position to terminate the interconnection (IC) line. This involves the installation of circuit breakers, disconnect switches, and other related substation equipment, along with necessary electrical and civil works to support the connection.
4. The study did not find any voltage performance violation or voltage stability concern under system normal, caused by connection of ██████████.
5. The new wind generators at ██████████ are required to participate in the existing North Coast generator shedding RAS.
6. Anti-islanding protection is required for the ██████████ and shall be configured in the manner that does not compromise the required ride-through performance.
7. The proposed ██████████ is required to have the dynamic reactive power capability at a minimum of +/- 33% of its MPO from the plants at the high-voltage side of the switchyard over the full MW operating range, per BC Hydro's TIR Section 6.4.2. Based on the IC-submitted PSS/E model, the proposed ██████████ meets the reactive capability requirement above.

8. The “reactive power at zero output” mode, such as “STATCOM option”, is required so that each turbine or solar inverter can provide reactive power capability at zero MW output.
9. Station work at the Tatogga Substation include expansion of the 287 kV bus to add a new line position and associated equipment for terminating the [REDACTED] customer line.
10. Station work at the Bob Quinn Substation include replacing the series capacitor bank 2CX1 with a new unit rated for at least 915 A. Equipment engineers will evaluate upgrade feasibility in the next project phase.

# Appendix A

## Schematic Diagram of the IC's Project

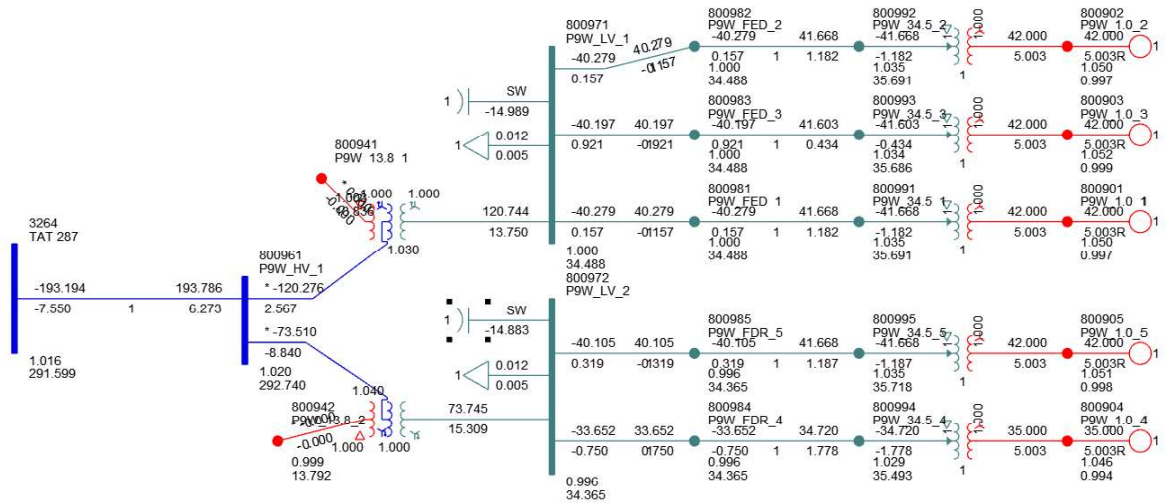


Figure A-1: [Redacted] Single Line Diagram

## Appendix B

### Power Flow Study Results

Power flow study results for study years 32HW, 33HS and 33LS are provided below.

Table B-1: Branch Loading Study Results

Case	Contingency Identified		Branch Loading		
	Category	Description	Branch	Load MVA	Loading%
31HW	P0	System Normal	BQN SC	339.2	105
	P1	RDC OOS	BQN SC	449.0	139
			2L377	447.4	61
			2L102	428.2	58
		Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	SKA T3	375.0	47
32HS	P0	System Normal	BQN SC	365.0	113
	P1	RDC OOS	BQN SC	450.1	139
			2L377	448.1	61
			2L102	432.9	59
		Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	SKA T3	465.5	69
32LS	P0	System Normal	BQN SC	419.3	130
	P1	RDC OOS	BQN SC	452.2	140
			2L377	450.8	61
			2L102	434.4	59
		Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	SKA T3	549.7	82
32HW	P0	System Normal	BQN SC	343.5	104
	P1	RDC OOS	BQN SC	450.1	139
			2L377	446.0	61
			2L102	429.3	58
		Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	SKA T3	376.0	47

Table B-2: Steady-State Voltage Study Results

Case	IPP's Gen Output (MW)	Contingency		Bus Voltage (PU)					
		Cat.	Description	TAT 287	BQN 287	TCT 287	MIN 287	SKA 287	SKA 500
31HW	420	P0	System Normal	1.03	1.03	1.02	0.99	1.00	1.025
		P1	Bypass on BQN Series Capacitor	1.02	1.02	1.02	0.99	1.00	1.025
			2L99 OOS	1.03	1.03	1.02	0.97	0.99	1.02
			RDC OOS	1.03	1.03	1.02	0.99	1.014	1.04
		P2/P4	Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	1.03	1.03	1.02	0.99	1.00	1.029
32HS	420	P0	System Normal	1.02	1.02	1.00	0.99	1.015	1.046
		P1	Bypass on BQN Series Capacitor	1.01	1.00	1.00	0.99	1.015	1.046
			2L99 OOS	1.02	1.01	1.00	1.00	1.018	1.048
			RDC OOS	1.02	1.01	1.00	0.99	1.01	1.04
		P2/P4	Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	1.02	1.02	1.00	0.99	1.015	1.05
32LS	420	P0	System Normal	1.02	1.02	1.01	0.99	1.01	1.041
		P1	Bypass on BQN Series Capacitor	1.02	1.00	0.99	0.99	1.01	1.04
			2L99 OOS	1.02	1.02	1.01	0.99	1.018	1.048
			RDC OOS	1.02	1.02	1.01	0.99	1.007	1.039
		P2/P4	Fault at SKA 5CB3 or (fault at SKA T1 or T2 w stuck breaker), tripping SKA T1, T2 & 5CX1	1.02	1.02	<b>1.01</b>	0.99	1.016	1.046

## Appendix C

### One-Line Sketch for Tatogga Substation Expansion

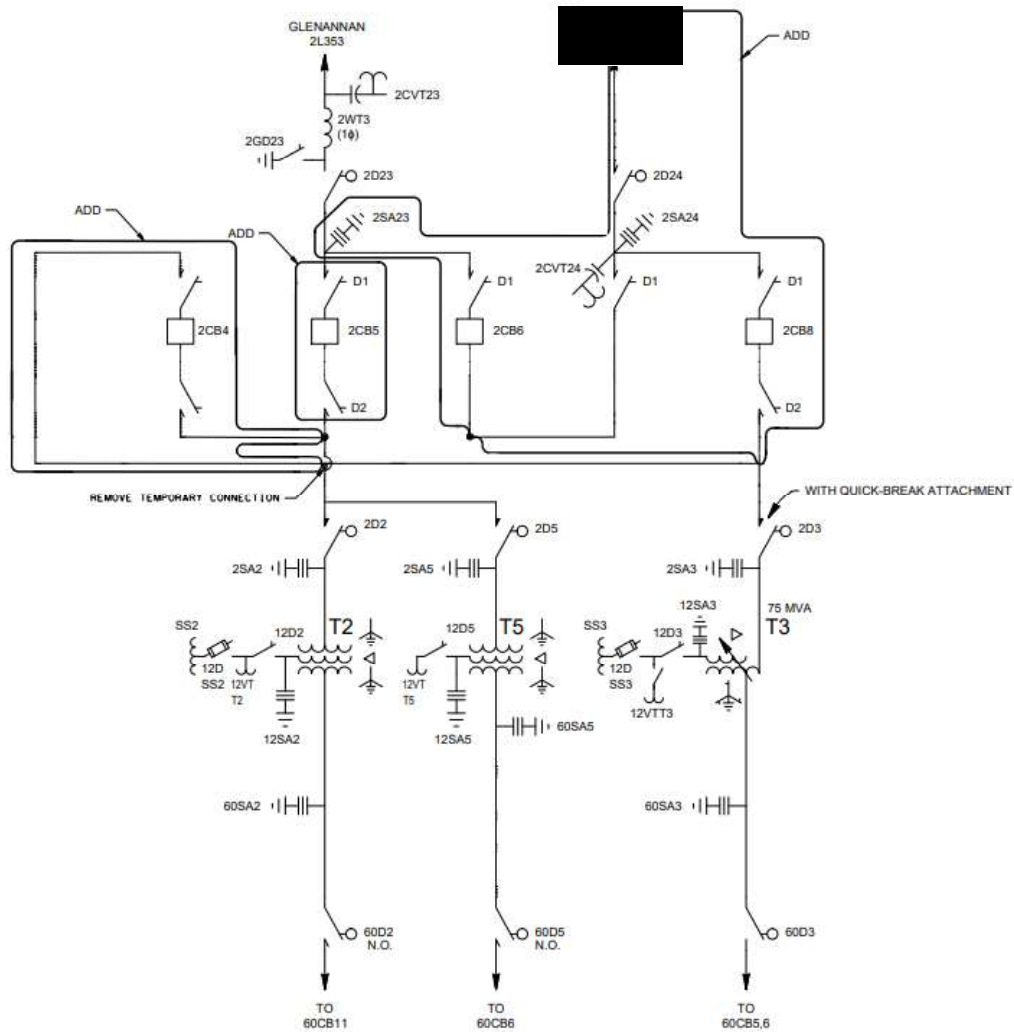


Figure C-1: Stations Planning One-Line Sketch for the Expansion of Tatogga Substation.