

Exhibit 13

March 9, 2020

**Email from Greg Adams and
Attachments**

From: [Greg Adams](#)
To: [Moore, Kyle \(Mkt Function\)](#); [Bryan Case](#)
Cc: [McDermott, Jacob](#); [Woodworth, Thomas](#)
Subject: RE: Fall River's Proposed PPA for Chester Diversion Hydro Project
Date: Monday, March 09, 2020 2:25:56 PM
Attachments: [Fall River Distribution One-Line.pdf](#)
[Chester Interconnection Request.pdf](#)
[RE_Q1182 - Fall River Rural Electric Cooperative, Inc. QF System Impact Study Agreement.pdf](#)
[Fully Executed 191108 Q1182 QFSGI SISA.pdf](#)
[191125 Q1182 LTR Study Provision Delay Notification.pdf](#)
[QF10-337-001.pdf](#)

Tom, Jacob, and Kyle,

To follow up on my phone call with Tom on Friday, I am responding to the requests for additional information related to Fall River Rural Electric Cooperative's Chester Diversion Project, as requested by Kyle. I have reproduced Kyle's questions in italics below and provided Fall River's response beneath each question. We look forward to hearing back from PacifiCorp and reaching agreement on terms of the proposed PPA for the Chester Project. If you have any further questions, please contact me.

- 1. While we understand from your original information provided in September 2019 that the Chester Diversion Project is already operating, you also mention that you are seeking an interconnection to PacifiCorp's system. Considering these two statements together, we assume this means the project is already interconnected to another system and delivering power. Can you please confirm and elaborate so we may understand the situation better? Assuming we understand the situation correctly, have you considered purchasing transmission to deliver the output to PacifiCorp's system? That would seem to avoid the interconnection study delays you indicate you are experiencing.*

Fall River's Response: As discussed with Tom on the phone on Friday, the Chester project is currently interconnected to Fall River's own distribution system, and the output of the facility is currently being used to serve Fall River's own members' loads. However, there is a 12.5-kV PacifiCorp line located directly adjacent to the current interconnection point on the Fall River line, and therefore Fall River's engineers have concluded that interconnecting the facility to the PacifiCorp system would be feasible and reasonably achievable. During the scoping meeting with PacifiCorp's transmission personnel, it appeared that this should be a relatively easy interconnection without any insurmountable obstacles.

With respect to PacifiCorp's inquiry as to why Fall River proposes to interconnect to PacifiCorp's system as opposed to wheeling the power to PacifiCorp's system from the existing interconnection point on Fall River's system, Fall River has considered this option and believes that the proposal to interconnect to PacifiCorp's system is the more efficient and reasonable option from a contractual and engineering standpoint. The alternative that Fall River has considered is that the parties could attempt to wheel the power over Fall River's system to the point of interconnection between the two utilities in the Rexburg substation. However, there are engineering and contractual obstacles to this alternative, including: (i) the entire wheeling arrangement would be located within PacifiCorp's balancing authority; therefore it is not a standard interchange transaction and it may be difficult for the parties to agree on the proper way to meter and track the delivery to the Rexburg substation; and (ii) Fall River's system does not currently operate in such a way that there is an open connection to the Rexburg substation from

the Chester facility at all times of the year – In engineering terms, the Chester project's output feeds into Fall River's Daw Substation, and the Daw Substation is connected to the Rexburg substation (to which PacifiCorp's system is connected); but while Fall River does not operate its distribution systems in a looped configuration, meaning the two feeders from two different substations are electrically connected 24/7/365, this connection is occasionally closed and an open point established in another location during outages or for maintenance. This is depicted on the attached map/one-line diagram of the relevant facilities.

In light of these facts, Fall River has proposed the simpler solution of a direct interconnection to PacifiCorp's system.

2. *Can you please provide the documentation you've exchanged with PacifiCorp's Transmission Function that relates to your interconnection application and request?*

Fall River's Response: We have attached the following documents:

- Fall River's Interconnection Request, dated October 3, 2019, with check for \$1,000;
 - Fall River and PacifiCorp Transmission held a scoping meeting on October 31, 2019, and it appeared that there should be no major obstacles to achieving interconnection of the facility; thus, Fall River agreed to waive the Feasibility Study to expedite the process;
 - Fall River's email dated November 12, 2019, containing additional project information, executed System Impact Study Agreement, and \$10,000 study deposit, which PacifiCorp has cashed;
 - Fully executed System Impact Study Agreement, dated Nov. 22, 2019;
 - Letter from PacifiCorp Transmission dated November 25, 2020, stating that the study could not be completed on time.
3. *Finally, you mention you've previously provided PAC the QF self-certification for this project. We're unable to locate in our records and are unable to access on the FERC eLibrary. Can you please provide us a copy?*

Fall River's Response: The facility has been certified in FERC Docket QF10-337. We have attached the most recently filed recertification form. Please note that Fall River intends to file a recertification form to include the plans to sell to PacifiCorp and to update some other information, such as the facility's ownership. If you have any questions about the facility's ability to meet the qualification criteria, please let me know.

Greg Adams
Richardson Adams, PLLC
515 N. 27th Street
Boise, Idaho 83702
Voice: 208.938.2236
Facsimile: 208.938.7904

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From: Moore, Kyle {Mkt Function} <Kyle.Moore@pacificorp.com>
Sent: Thursday, March 05, 2020 4:52 PM
To: Bryan Case <Bryan.Case@fallriverelectric.com>
Cc: Greg Adams <Greg@richardsonadams.com>; McDermott, Jacob <Jacob.McDermott@pacificorp.com>; Woodworth, Thomas <Thomas.Woodworth@PacifiCorp.com>
Subject: RE: Fall River's Proposed PPA for Chester Diversion Hydro Project

Bryan,

We are in receipt of your latest February 19, 2020 correspondence. As discussed previously, consistent with the Company's Idaho Schedule 38 (Part I.B.5), we're not able to commence negotiations on the PPA until such time as we can review your available transmission/interconnection materials to reasonably confirm that the project is able to deliver power on the date you indicated, which informs your eligibility for the current avoided cost rate. We're happy to continue to evaluate the situation with this project, but we need more information. Please see below:

1. While we understand from your original information provided in September 2019 that the Chester Diversion Project is already operating, you also mention that you are seeking an interconnection to PacifiCorp's system. Considering these two statements together, we assume this means the project is already interconnected to another system and delivering power. Can you please confirm and elaborate so we may understand the situation better? Assuming we understand the situation correctly, have you considered purchasing transmission to deliver the output to PacifiCorp's system? That would seem to avoid the interconnection study delays you indicate you are experiencing.
2. Can you please provide the documentation you've exchanged with PacifiCorp's Transmission Function that relates to your interconnection application and request?
3. Finally, you mention you've previously provided PAC the QF self-certification for this project. We're unable to locate in our records and are unable to access on the FERC eLibrary. Can you please provide us a copy?

Thanks,

Kyle Moore
Rocky Mountain Power
Commercial Services
O 801.220.4467
C 385.210.4209

From: Greg Adams [<mailto:Greg@richardsonadams.com>]
Sent: Wednesday, February 19, 2020 9:34 AM
To: McDermott, Jacob <Jacob.McDermott@pacificorp.com>; Moore, Kyle {Mkt Function} <Kyle.Moore@pacificorp.com>
Cc: Bryan Case <Bryan.Case@fallriverelectric.com>
Subject: [INTERNET] Fall River's Proposed PPA for Chester Diversion Hydro Project

**** REMEMBER SAIL WHEN READING EMAIL ****

| | |
|---|--|
| Sender | The sender of this email is Greg@richardsonadams.com using a friendly name of Greg Adams . Are you expecting the message? Is this different from the message sender displayed above? |
| Attachments | Does this message contain attachments? Yes If yes, are you expecting them? Fall River Letter Re Chester PPA 2-19-2020.pdf , Form of Idaho Small Hydro PPA _ 1.2.20 _Fall River -Chester Edits_2.18.2020.docx , Chester to PAC one line.pdf |
| Internet Tag | Messages from the Internet should have [INTERNET] added to the subject. |
| Links | Does this message contain links? Yes Check links before clicking them or removing BLOCKED in the browser. |
| Cybersecurity risk assessment: Medium | |

Jacob and Kyle, Please see that attached cover letter and draft PPA that we are sending in US Mail today. Please contact me with any questions.

Greg Adams
Richardson Adams, PLLC
515 N. 27th Street
Boise, Idaho 83702
Voice: 208.938.2236
Facsimile: 208.938.7904

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SMALL GENERATOR QUALIFIED FACILITY INTERCONNECTION REQUEST
(Application Form)

Transmission Provider: PacifiCorp

Designated Contact Person: Kris Bremer

Address (for U.S. Mail Deliveries): PacifiCorp Transmission
P.O. Box 2757
Portland, OR 97208-2757

Address (for All Other Deliveries): PacifiCorp Transmission
825 NE Multnomah Ave, Suite 550
Portland, OR 97232

Telephone Number: (503) 813-6496

Fax: _____

E-Mail Address: Kristopher.Bremer@PacifiCorp.com

An Interconnection Request is considered complete when it provides all applicable and correct information required below.

Preamble and Instructions

An Interconnection Customer who requests a Qualified Facility interconnection must submit this Interconnection Request by hand delivery, mail, e-mail, or fax to the Transmission Provider.

Processing Fee or Deposit:

If the Interconnection Request is submitted to be evaluated under a Fast Track Process, the non-refundable processing fee is \$500.

If the Interconnection Request is submitted under the Study Process, whether a new submission or an Interconnection Request that did not pass the Fast Track Process, the Interconnection Customer shall submit to the Transmission Provider a deposit of \$1,000.

Interconnection Customer Information

Legal Name of the Interconnection Customer (or, if an individual, individual's name)

Name: Fall River Rural Electric Cooperative, Inc. _____

Contact Person: Dave Peterson _____

Mailing Address: 1150 N. 3400 E _____

City: Ashton _____ State: Idaho _____ Zip: 83420 _____

Facility Location (if different from above): Chester Diversion Hydroelectric Project _____

Telephone (Day): (208) 652-7050 _____ Telephone (Evening): (208) 709-4870 _____

Fax: (208) 652-3452 _____ E-Mail Address: dave.peterson@fallriverelectric.com _____

Alternative Contact Information (if different from the Interconnection Customer)

Contact Name: _____

Title: _____

Address: _____

Telephone (Day): _____ Telephone (Evening): _____

Fax: _____ E-Mail Address: _____

Application is for: New Small Generating Qualified Facility
 Capacity addition to Existing Small Generating Facility

If capacity addition to existing facility, please describe: _____

Will the Small Generating Facility be used for any of the following?

To Supply Power to the Interconnection Customer? Yes No
To Supply Power to Others? Yes No

For installations at locations with existing electric service to which the proposed Small Generating Facility will interconnect, provide:

(Local Electric Service Provider*)

(Existing Account Number*)

[*To be provided by the Interconnection Customer if the local electric service provider is different from the Transmission Provider]

Contact Name: _____

Title: _____

Address: _____

Telephone (Day): _____ Telephone (Evening): _____

Fax: _____ E-Mail Address: _____

Requested Point of Interconnection: Rocky Mountain Power Pole 31-08-041 #3479000 _____

Interconnection Customer's Requested In-Service Date: _____

Small Generating Facility Information

Data apply only to the Small Generating Qualified Facility, not the Interconnection Facilities.

Energy Source: ___ Solar ___ Wind X Hydro Hydro Type (e.g. Run-of-River): Run of the River _____
___ Diesel ___ Natural Gas ___ Fuel Oil ___ Other (state type) _____

Prime Mover: ___ Fuel Cell ___ Recip Engine ___ Gas Turb ___ Steam Turb
___ Microturbine ___ PV X Other

Type of Generator: X Synchronous ___ Induction ___ Inverter

Generator Nameplate Rating: (3)x1200 3600kW (Typical) Generator Nameplate kVAR: (3)x581 1743

Expected Interconnection Customer or Customer-Site Load: _____ 300 _____ kW (if none, so state)

Typical Reactive Load (if known): _____

Maximum Nameplate Capability Requested: 1840 kW

List components of the Small Generating Facility equipment package that are currently certified:

| Equipment Type | Certifying Entity |
|----------------|-------------------|
| 1. _____ | _____ |
| 2. _____ | _____ |
| 3. _____ | _____ |
| 4. _____ | _____ |
| 5. _____ | _____ |

Is the prime mover compatible with the certified protective relay package? Yes No

Generator (or solar inverter)

Manufacturer, Model Name & Number: CCJEC SFW – J1200 – S2/3400

Version Number: _____

Nameplate Output Power Rating in kW: (Summer) 3600 (Winter) 3600

Nameplate Output Power Rating in kVA: (Summer) 4000 (Winter) 4000

Individual Generator Power Factor

Rated Power Factor: Leading: _____ Lagging: .9

Total Number of Generators in wind farm to be interconnected pursuant to this Interconnection Request:

_____ Elevation: _____ Single phase Three phase

Inverter Manufacturer, Model Name & Number (if used): N/A

List of adjustable set points for the protective equipment or software: _____

Note: A completed Power System Simulator for Engineering (PSS/E) data sheet must be supplied with the Interconnection Request.

Small Generating Facility Characteristic Data (for inverter-based machines)

Max design fault contribution current: _____ Instantaneous or RMS?

Harmonics Characteristics: _____

Start-up requirements: _____

Small Generating Facility Characteristic Data (for rotating machines)

RPM Frequency: 138.5 RPM
(* Neutral Grounding Resistor (If Applicable): _____

Synchronous Generators:

Direct Axis Synchronous Reactance, X_d : .6227 P.U.
Direct Axis Transient Reactance, X'_d : .2978 P.U.
Direct Axis Subtransient Reactance, X''_d : .2293 P.U.
Negative Sequence Reactance, X_2 : .2379 P.U.
Zero Sequence Reactance, X_0 : .1062 P.U.
KVA Base: (3) x 1333.3
Field Volts: 12500
Field Amperes: 61.58

Induction Generators:

Motoring Power (kW): _____
 I_2^2t or K (Heating Time Constant): _____
Rotor Resistance, R_r : _____
Stator Resistance, R_s : _____
Stator Reactance, X_s : _____
Rotor Reactance, X_r : _____
Magnetizing Reactance, X_m : _____
Short Circuit Reactance, X_d'' : _____
Exciting Current: _____
Temperature Rise: _____
Frame Size: _____
Design Letter: _____
Reactive Power Required In Vars (No Load): _____
Reactive Power Required In Vars (Full Load): _____
Total Rotating Inertia, H: _____ Per Unit on kVA Base

Note: Please contact the Transmission Provider prior to submitting the Interconnection Request to determine if the specified information above is required.

Excitation and Governor System Data for Synchronous Generators Only

Provide appropriate IEEE model block diagram of excitation system, governor system and power system stabilizer (PSS) in accordance with the regional reliability council criteria. A PSS may be determined to be required by applicable studies. A copy of the manufacturer's block diagram may not be substituted.

Interconnection Facilities Information

Will a transformer be used between the generator and the point of interconnection? ___ Yes X No

Will the transformer be provided by the Interconnection Customer? ___ Yes X No

Transformer Data (If Applicable, for Interconnection Customer-Owned Transformer):

Is the transformer: ___ single phase ___ three phase? Size: _____ kVA
Transformer Impedance: _____ % on _____ kVA Base

If Three Phase:

Transformer Primary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded
Transformer Secondary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded
Transformer Tertiary: _____ Volts _____ Delta _____ Wye _____ Wye Grounded

Transformer Fuse Data (If Applicable, for Interconnection Customer-Owned Fuse):

(Attach copy of fuse manufacturer's Minimum Melt and Total Clearing Time-Current Curves)

Manufacturer: _____ Type: _____ Size: _____ Speed: _____

Interconnecting Circuit Breaker (if applicable):

Manufacturer: _____ GE _____ Type: _____ PowerVac _____
Load Rating (Amps): 1200 Interrupting Rating (Amps): 20000 Trip Speed (Cycles): 5
Interconnection Protective Relays (If Applicable):

If Microprocessor-Controlled:

List of Functions and Adjustable Setpoints for the protective equipment or software:

| Setpoint Function | Minimum | Maximum |
|----------------------------------|----------------------|----------------------|
| 1. <u>Phase Overcurrent</u> | - _____ | 250 A _____ |
| 2. <u>Ground Overcurrent</u> | - _____ | 50 A _____ |
| 3. <u>Generator Differential</u> | - _____ | 10% 4 cycles _____ |
| 4. <u>Reverse Power</u> | _____ | 2% 10 seconds _____ |
| 5. <u>Over/Under Voltage</u> | 90% 1 second _____ | 110% 1 second _____ |
| 6. <u>Over/Under Frequency</u> | 59 Hz 1 second _____ | 61 Hz 1 second _____ |

If Discrete Components:

(Enclose Copy of any Proposed Time-Overcurrent Coordination Curves)

Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____
 Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____
 Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____
 Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____
 Manufacturer: _____ Type: _____ Style/Catalog No.: _____ Proposed Setting: _____

Current Transformer Data (If Applicable):

(Enclose Copy of Manufacturer's Excitation and Ratio Correction Curves)

Manufacturer: GE-ITI _____
 Type: 780-301 _____ Accuracy Class: _ Proposed Ratio Connection: 300:5

Manufacturer: GE-ITI _____
 Type: 780-101 _____ Accuracy Class: _ Proposed Ratio Connection: 100:5

Potential Transformer Data (If Applicable):

Manufacturer: GE-ITI _____
 Type: PTWS-2—110-123SS Accuracy Class: Proposed Ratio Connection: 100:1

Manufacturer: _____
 Type: _____ Accuracy Class: _ Proposed Ratio Connection: _____

General Information

Enclose copy of site electrical one-line diagram showing the configuration of all Small Generating Facility equipment, current and potential circuits, and protection and control schemes. **This one-line diagram must be signed and stamped by a licensed Professional Engineer if the Small Generating Facility is larger than 50 kW.**

Enclose copy of any acceptable site control documentation that indicates the precise physical location of the proposed Small Generating Facility (e.g., USGS topographic map or other diagram or documentation). This is additional to Transmission Provider required Site Control Documentation reasonably demonstrating: (1) ownership of, a leasehold interest in, or a right to develop a site for the purpose of constructing the Generating Facility; (2) an option to purchase or acquire a leasehold site for such purpose; or (3) an exclusivity or other business relationship between Interconnection Customer and the entity having the right to sell, lease or grant Interconnection Customer the right to possess or occupy a site for such purpose.

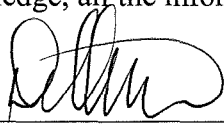
Proposed location of protective interface equipment on property (include address if different from the Interconnection Customer's address) _____ 2875 E. 930 N. Fremont County Idaho _____

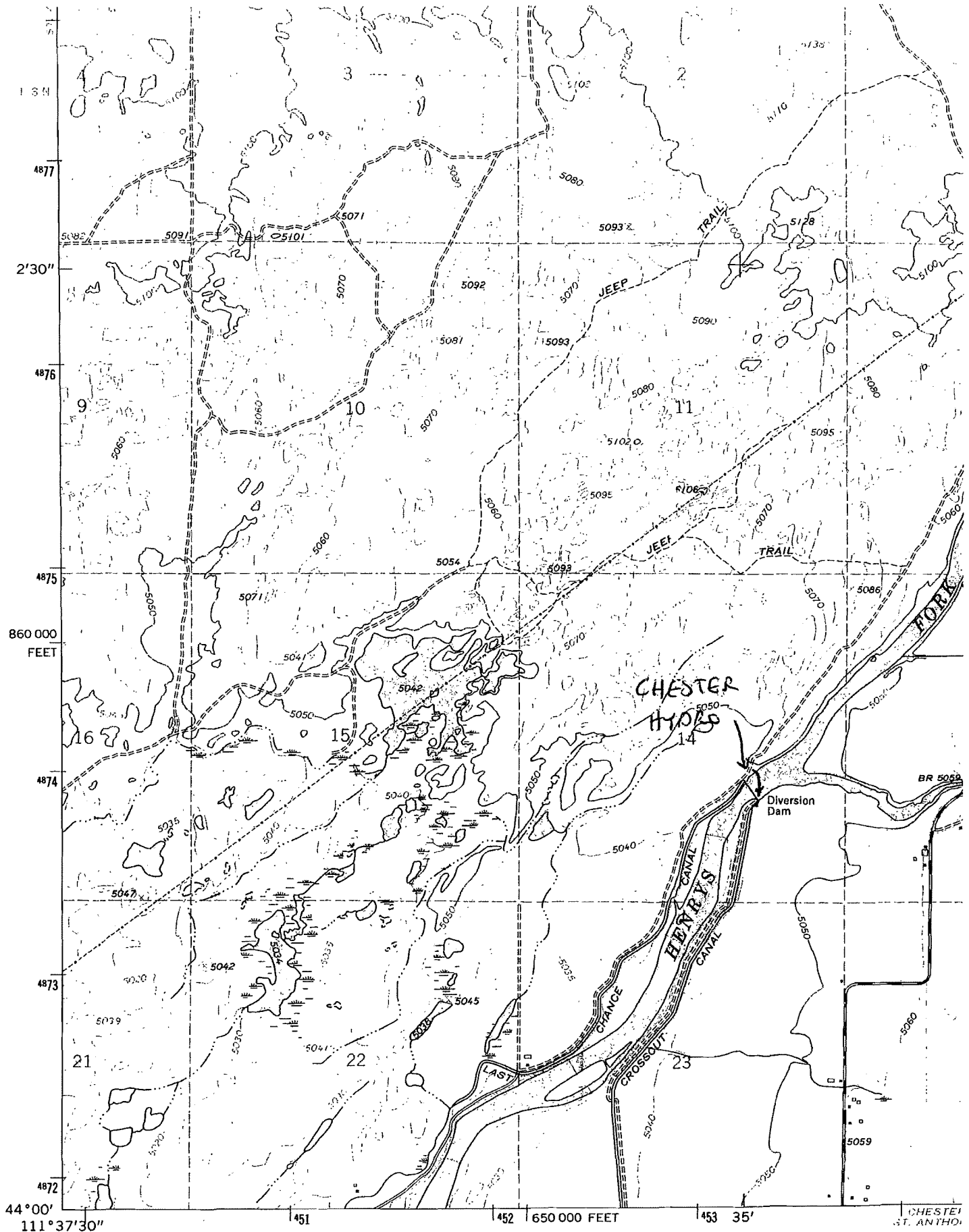
Enclose copy of any site documentation that describes and details the operation of the protection and control schemes. Is Available Documentation Enclosed? Yes No

Enclose copies of schematic drawings for all protection and control circuits, relay current circuits, relay potential circuits, and alarm/monitoring circuits (if applicable).
Are Schematic Drawings Enclosed? Yes No

Applicant Signature

I hereby certify that, to the best of my knowledge, all the information provided in this Interconnection Request is true and correct.

For Interconnection Customer:  Date: 10/3/19



Mapped, edited, and published by the Geological Survey
 Control by USGS and USC&GS

Topography by photogrammetric methods from aerial
 photographs taken 1963. Field checked 1965

Polyconic projection. 1927 North American datum
 10 000 foot grid based on Idaho coordinate system

(ST. ANTHONY)
 3671 / NW

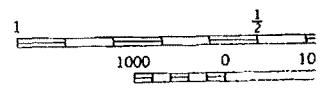
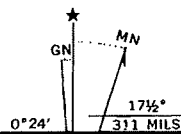


Exhibit 13
 Page 14



| | | Estimated HP | Estimated Load KW |
|--------|---------------------------|----------------|-------------------|
| Normal | Trash Rack Control Panel | 5 Hp | 6.3 |
| Normal | 15 Ton Hoist #1 | 25.3 HP & 2 HP | 28.2 |
| Normal | Plant Water Pump | 3 ea 7.5 HP | 37.4 |
| Normal | Panel LP | 45 Kw | 30.0 |
| Normal | Unit Heater 1 | 30 Kw | 30.0 |
| Normal | Exhaust Fan | 5 hp | 6.3 |
| Normal | 15 Ton Hoist #2 | 25.3 HP & 2 HP | 28.2 |
| Normal | HPU Generator 1 | 2 ea 3 Hp | 7.2 |
| Normal | HPU Generator 2 | 7 ea 3 Hp | 7.2 |
| Normal | HPU Generator 3 | 2 ea 3 Hp | 7.2 |
| Normal | Lube Oil Pump Generator 1 | 2 ea 3 Hp | 7.2 |
| Normal | Lube Oil Pump Generator 2 | 2 ea 3 Hp | 7.2 |
| Normal | Lube Oil Pump Generator 3 | 2 ea 3 Hp | 7.2 |
| Normal | Air Compressor | 20 Hp | 22.4 |
| Normal | Unit Heater 2 | 30 Kw | 30.0 |
| Normal | Unit Heater 3 | 30 Kw | 30.0 |
| Normal | Unit Heater 4 | 5 Kw | 5.0 |
| Normal | Lights | 5 KW | 5.0 |
| Normal | 20 Ton Hoist #1 | 25.3 HP | 28.2 |
| Normal | 20 Ton Hoist #2 | 25.3 HP | 28.2 |
| Normal | 20 Ton Hoist #3 | 25.3 HP | 28.2 |
| Normal | Radial Gate | 6 HP | 7.5 |

Estimated Normal Power Loads 394.1 Kw

3/4/2010

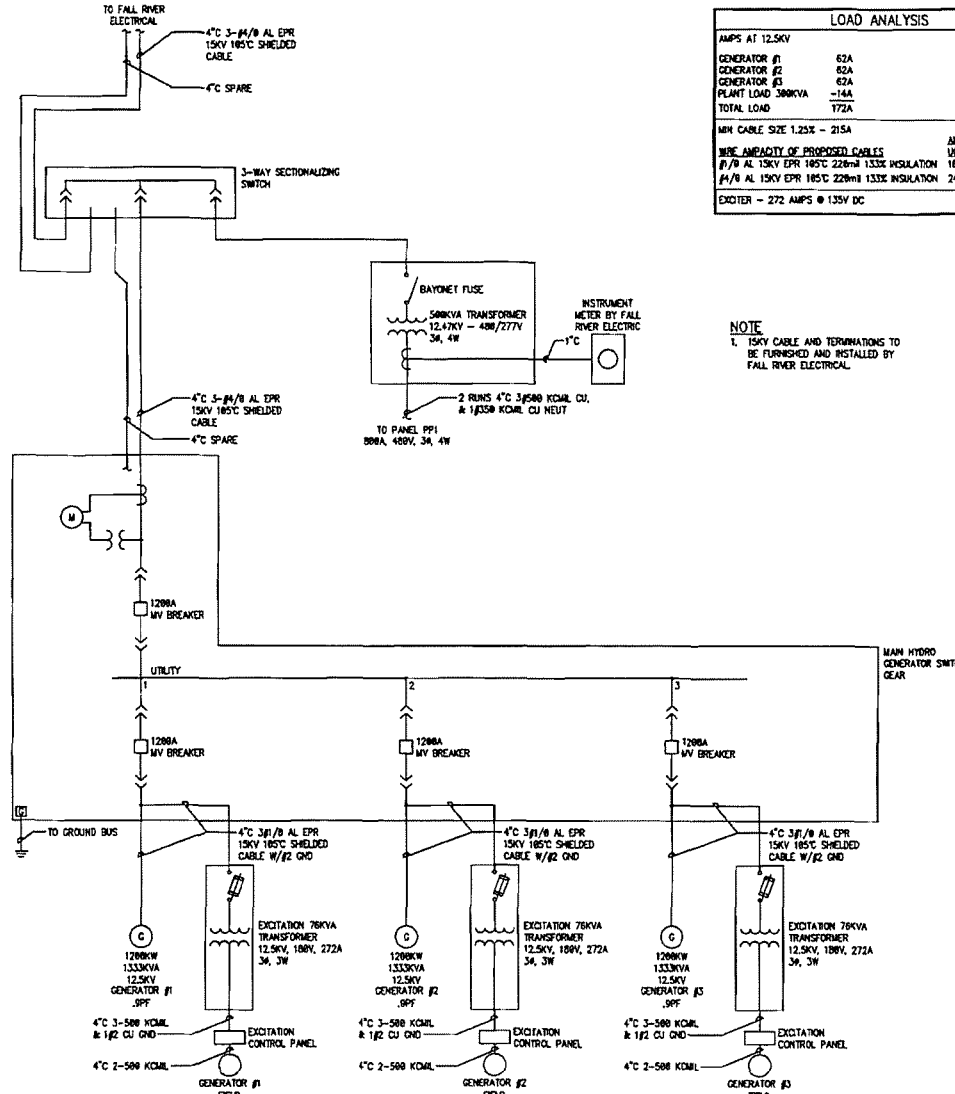
| | | Estimated HP | Estimated Load KW |
|-----------|--------------------------|--------------|-------------------|
| Emergency | Air Vacuum Control Panel | 10 HP verify | 11.6 |
| Emergency | Panel EL | | 5.0 |
| Emergency | Sump Pumps | 2 ea 5 HP | 12.6 |
| Emergency | Fish Screen | | 19.2 |
| Emergency | Panel DW | | 10.0 |
| Emergency | Battery Charger | | 20.0 |

Estimated Emergency Power Loads 78.4 Kw

Total Connected Plant Load 472.5 Kw

Minimum Service Ampacity 588 Amps

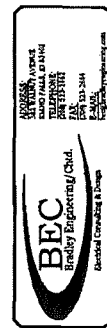
Install 800 Amp 480 Volt 3 Phase Service



| LOAD ANALYSIS | | | |
|--|------|-------------------|-----------------|
| AMPS AT 12.5KV | | | |
| GENERATOR #1 | 62A | | |
| GENERATOR #2 | 62A | | |
| GENERATOR #3 | 62A | | |
| PLANT LOAD 390KVA | -14A | | |
| TOTAL LOAD | 172A | | |
| MIN CABLE SIZE 1.25% - 215A | | | |
| MIN AMPACITY OF PROPOSED CABLES | | AMPEACITY UP DUCT | MINIMUM CONDUIT |
| #1/#2 AL 15KV EPR 185°C 226mm ² 133E INSULATION | 165A | 5" | |
| #3/#4 AL 15KV EPR 185°C 226mm ² 133E INSULATION | 245A | 3 1/2" | |
| EXCITER - 272 AMPS @ 135V DC | | | |

NOTE
1. 15KV CABLE AND TERMINATIONS TO BE FURNISHED AND INSTALLED BY FALL RIVER ELECTRICAL.

GENERATOR 15KV ONE-LINE DIAGRAM
SCALE: NTS



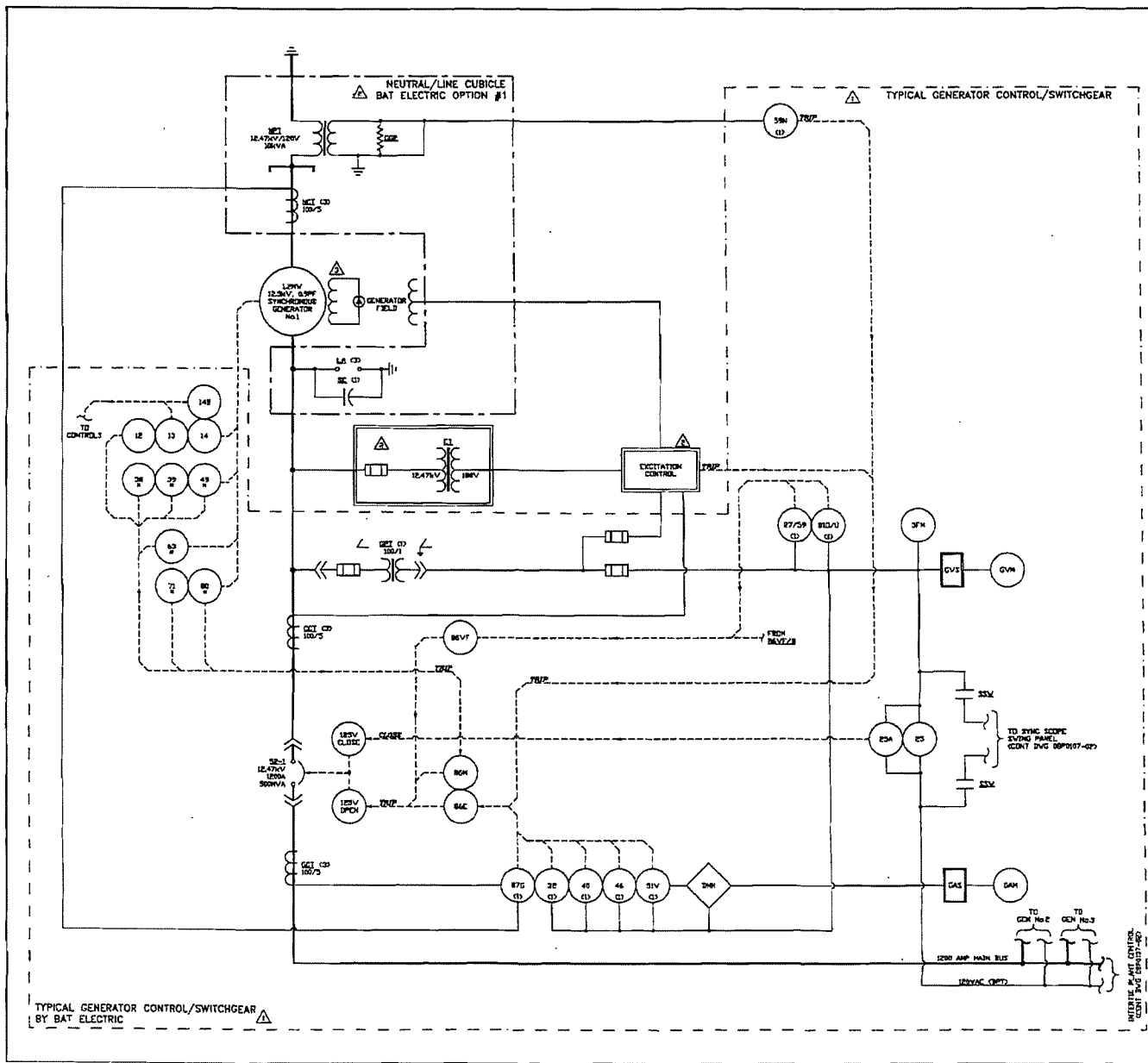
| REV | DESCRIPTION | DATE |
|-----|-------------|------|
| | | |
| | | |
| | | |
| | | |

CHESTER DIVERSION HYDRO
FERC PROJECT NO. 1878-001
GENERATOR 15KV ONE-LINE DIAGRAM
& LOAD ANALYSIS



DRAWN BY: C.B. HUNTER
CHECKED BY: B.M. BRADLEY
DESIGNED BY: B.M. BRADLEY
JOB NO. / DATE: 08-125 / MAR 2010

SHEET NO.
E-1



LINE LEGEND

| | |
|-----------|-----------------------|
| --- | CONTROL/SGWR CUBICLES |
| - - - | NEUTRAL/LINE CUBICLE |
| --- | HIGH VOLTAGE |
| --- | CONTROL WIRING |
| - · - · - | TRIP LINE |

NOTES

(1) PART OF UNIT 1 GENERATOR MULTI FUNCTION RELAY.

△ SWITCHGEAR CONTROLS & VOLTAGE REGULATOR WIRED FOR A-B-C PHASE ROTATION.

△ BAT ELECTRIC OPTIONAL EQUIPMENT.

△ EQUIPMENT NOT SUPPLIED BY BAT ELECTRIC.

* SENSORS AND SWITCHES PART OF TURBINE/GENERATOR. CONTROLS TO HAVE SHUTDOWN CIRCUITS ONLY.

DEVICE LEGEND

| | |
|-------|--------------------------------------|
| 12 | - OVER SPEED RELAY |
| 13 | - SYNC SPEED RELAY |
| 14 | - UNDER SPEED RELAY |
| 14B | - SECONDARY UNDER SPEED RELAY |
| 25 | - SYNC CHECK RELAY |
| 25A | - AUTO SYNCHRONIZER |
| 27/29 | - UNDER/OVER VOLTAGE RELAY |
| 32 | - REVERSE POWER RELAY |
| 38 | - BEARING OVER TEMPERATURE |
| 39 | - OVER VIBRATION |
| 40 | - FIELD RELAY |
| 46 | - PHASE BALANCE RELAY |
| 49 | - OVER TEMPERATURE RELAY |
| 51V | - OVERCURRENT RELAY V/VOLT RESTRAINT |
| 52 | - CIRCUIT BREAKER |
| 59N | - NEUTRAL OVERVOLTAGE RELAY |
| 63 | - AIR PRESSURE RELAY |
| 71 | - BEARING OIL LEVEL RELAY |
| 80 | - BEARING OIL LOW FLOW RELAY |
| 80D/U | - OVER/UNDER FREQUENCY RELAY |
| 84E | - ELECTRICAL LOCKOUT RELAY |
| 86R | - MECHANICAL LOCKOUT RELAY |
| 86VF | - VOLT/FREQ LOCKOUT RELAY |
| 87G | - GENERATOR DIFFERENTIAL RELAY |
| 88 | - CROSS CURRENT TRANSFORMER |
| 89M | - DIGITAL MULTI METER |
| ET | - EXCITATION TRANSFORMER |
| GAM | - GENERATOR AMMETER |
| GAC | - GENERATOR AMMETER SWITCH |
| GCT | - GENERATOR CURRENT TRANSFORMER |
| GFM | - GENERATOR FREQUENCY METER |
| GGR | - GENERATOR GROUNDING RESISTOR |
| GPT | - GENERATOR POTENTIAL TRANSFORMER |
| GVM | - GENERATOR VOLTMETER |
| GVS | - GENERATOR VOLTMETER SWITCH |
| LA | - LIGHTNING ARRESTOR |
| NET | - NEUTRAL CURRENT TRANSFORMER |
| NPT | - NEUTRAL POTENTIAL TRANSFORMER |
| SC | - SURGE CAPACITOR |
| SSV | - SYNC SWITCH |

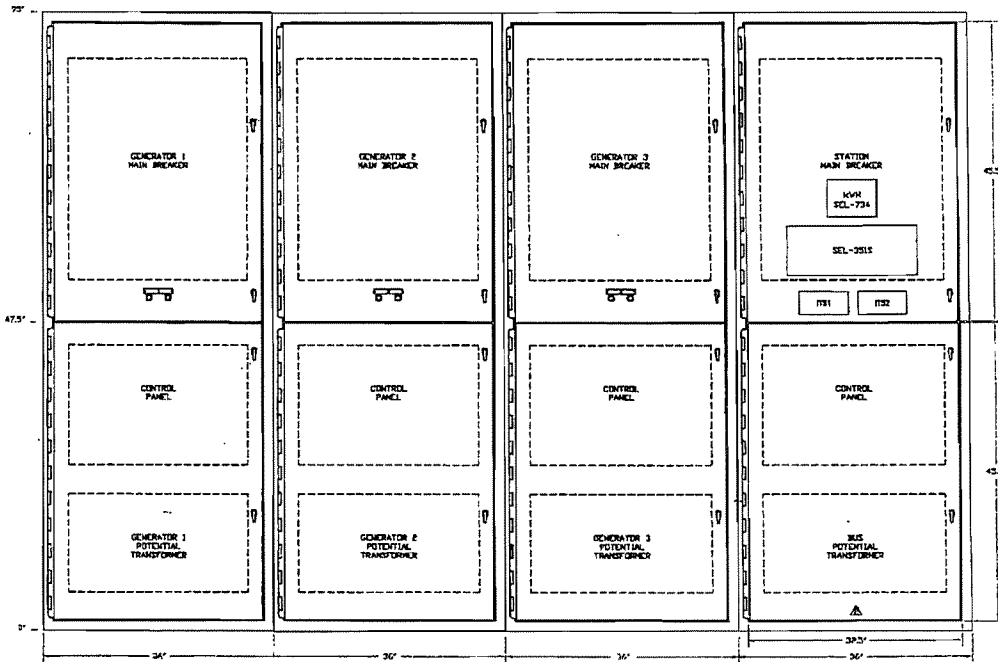
TYPICAL GENERATOR CONTROL/SWITCHGEAR BY BAT ELECTRIC

FALL RIVER RURAL COOP CHESTER HYDRO ELECTRIC PROJECT ONE LINE DIAGRAM

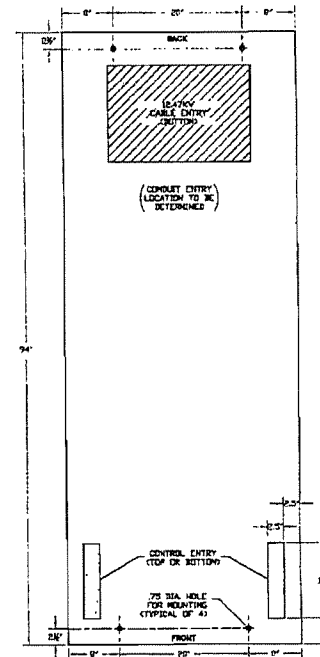
REV: 01 DATE: 11-10-08
 A: PT: 8-11-09
 B: PT: 8-11-09

DWG No.: 08P0107-01
 ENGR: D.BATKOP DEPT: PT DATE: 8-10-00

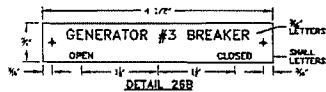
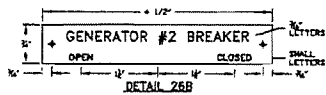
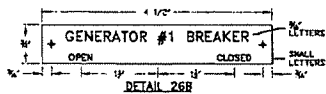
BAT ELECTRIC, INC.
 29418 HARTSHORN LANE
 ROCKWELL, CA 94985
 TEL: (415) 221-1328
 FAX: (415) 271-3488



MEDIUM VOLTAGE SWITCHGEAR AND CONTROL FRONT VIEW
 (NOTE: FRONT ISLE ALLOW 60" REAR ISLE ALLOW 36")

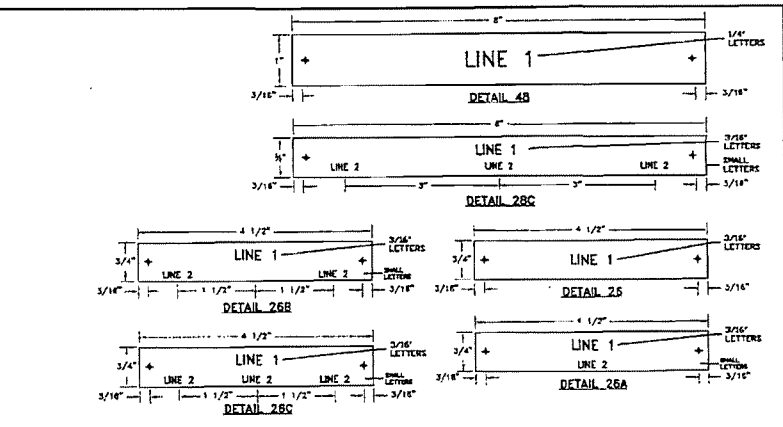
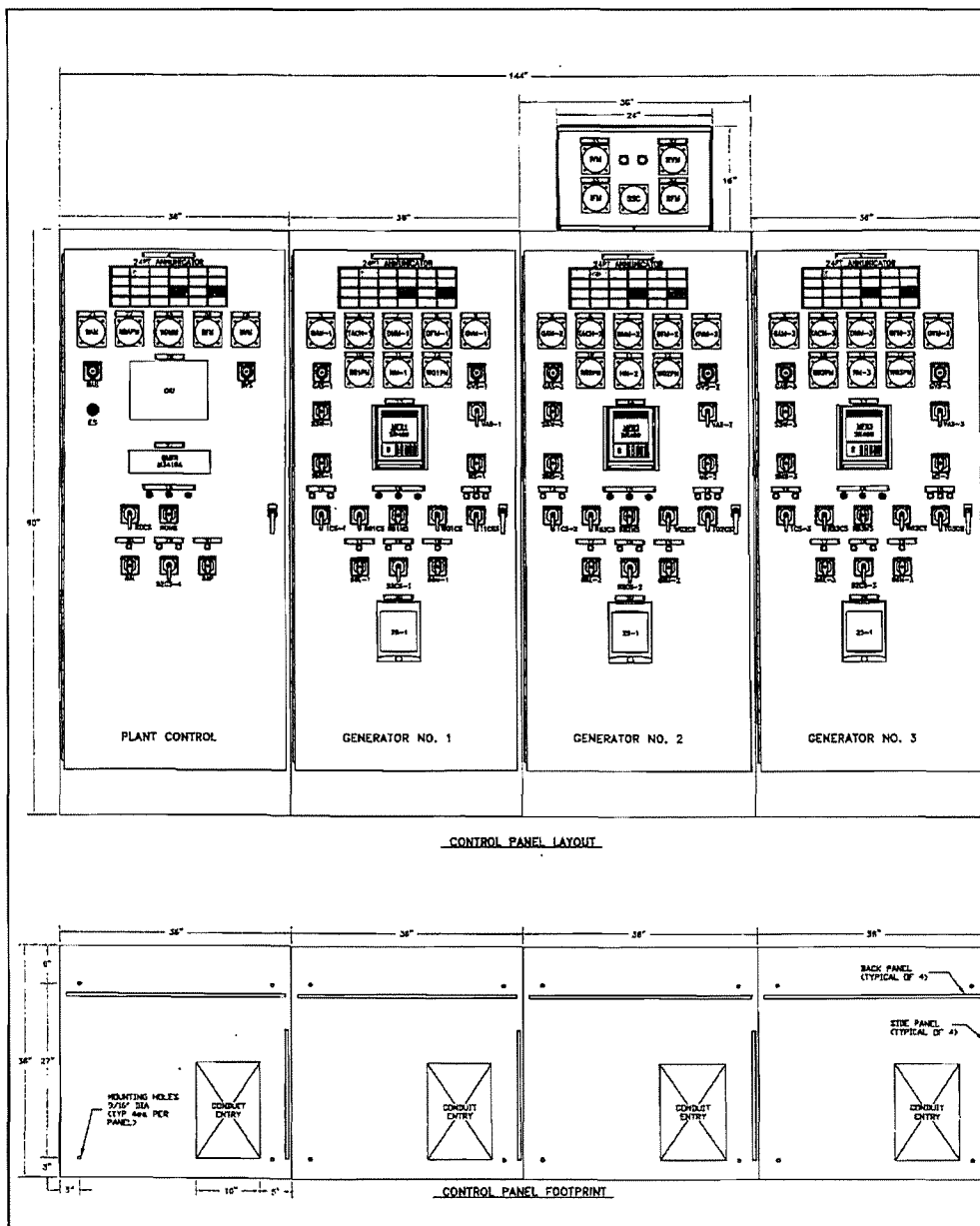


MEDIUM VOLTAGE SWITCHGEAR FOOTPRINT
 (TYPICAL OF 4 UNITS)



- PANEL CONSTRUCTION DETAILS
- SWITCHGEAR FRONT DOORS ARE HINGED
 - SWITCHGEAR REAR PANELS ARE BOLT ON
 - ALL DOORS & PANELS TO BE 11GA SHEETMETAL
 - PAINT ANSI 61 GRAY
 - ALL MAIN BUS JOINTS TO BE SILVER PLATED

| | | | |
|--|---|--|--|
| | BAT ELECTRIC, INC. 20410 MARINE LANE REDDING, CA 96002 TEL (530) 221-1338 FAX (530) 221-3406 | | RELV BY DATE A PT 11-19-08 B PT 11-11-09 |
| | DWG No.: 08P0107-03 ECHO: 01/20/07 | | DATE: 9-30-08 |
| | FALL RIVER RURAL COOP CHESTER HYDRO ELECTRIC PROJECT SWITCHGEAR CUBICLES LAYOUT/DIMENSIONAL | | |



- 1-15,17,19-27,29,31-33 - BLACK PHENOLIC WITH WHITE LETTERS
16,18,28,30 - RED PHENOLIC WITH WHITE LETTERS
- DEVICE LEGEND**
- ICS - START/STOP CONTROL SWITCH
 - CS - SYNC CHECK RELAY
 - SCCS - BREAKER CONTROL SWITCH
 - BSCS - ELECTRICAL LOCKOUT RELAY
 - 66I - INTERTIE LOCKOUT RELAY
 - 66M - MECHANICAL LOCKOUT RELAY
 - 66P - PLANT LOCKOUT RELAY
 - BAM - BUS AMMETER
 - BAS - BUS AMMETER SWITCH
 - 3DMH - BUS DIGITAL MULTI METER
 - BFM - BUS FREQUENCY METER
 - BMFR - BUS MULTI FUNCTION RELAY
 - BVM - BUS VOLT METER
 - BVS - BUS VOLT METER SWITCH
 - DMH - DIGITAL MULTI METER
 - ES - EMERGENCY STOP
 - GM - GEN AMMETER
 - GAS - GEN AMMETER SWITCH
 - GFH - GEN FREQUENCY METER
 - GVM - GEN VOLT METER
 - GVS - GEN VOLT METER SWITCH
 - HM - HOUR METER
 - IFM - INCOMING FREQUENCY METER
 - IVM - INCOMING VOLT METER
 - IFR - MULTI FUNCTION RELAY
 - MS - MIDE SWITCH
 - OIU - OPERATOR INTERFACE UNIT
 - RBCCS - RUNNER BLADE CONTROL SWITCH
 - RBMS - RUNNER BLADE MIDE SWITCH
 - RBPM - RUNNER BLADE POSITION METER
 - RDAP - RUBBER DAM AIR PRESSURE METER
 - RDCCS - RUBBER DAM CONTROL SWITCH
 - RDMS - RUBBER DAM MIDE SWITCH
 - RFM - RUNNING FREQUENCY METER
 - RVH - RUNNING VOLT METER
 - QMS - START MIDE SWITCH
 - SSC - SYNCSCOPE
 - SSW - SYNC SWITCH
 - TACH - TACHOMETER
 - TGCS - TURBINE GATE CONTROL SWITCH
 - VAS - VOLTAGE ADJUST SWITCH
 - WGCS - WICKET GATE CONTROL SWITCH
 - WGPB - WICKET GATE POSITION METER

NAMEPLATES

| | LINE 1 | LINE 2 | DETAIL |
|----|--------------------------|----------------------------|--------|
| 1 | GEN 1 CONTROL SECTION | | 4B |
| 2 | GEN 2 CONTROL SECTION | | 4B |
| 3 | GEN 3 CONTROL SECTION | | 4B |
| 4 | PLANT CONTROL SECTION | | 4B |
| 5 | GENERATOR AMMETER | | 26 |
| 6 | TACHOMETER | | 26 |
| 7 | DIGITAL MULTI-METER | | 26 |
| 8 | GENERATOR FREQUENCY | | 26 |
| 9 | GENERATOR VOLT METER | | 26 |
| 10 | RUNNER BLADE POSITION | | 26 |
| 11 | HOUR METER | | 26 |
| 12 | WICKET GATE POSITION | | 26 |
| 13 | GEN MULTI FUNCTION RELAY | | 26 |
| 14 | CONTROL STATUS | STOP-START | 26B |
| 15 | TURBINE GATE STATUS | FULL CLOSED-OPEN-FULL OPEN | 26C |
| 16 | 66C COIL OK LIGHT | MUST BE LIT WHEN RESET | 26A |
| 17 | GENERATOR BREAKER | OPEN-CLOSED | 26A |
| 18 | 66P COIL OK LIGHT | MUST BE LIT WHEN RESET | 26B |
| 19 | ANNUNCIATOR | ACKNOWLEDGE-TEST-RESET | 26C |
| 20 | SYNC CHECK RELAY | | 26 |
| 21 | BUS AMMETER | | 26 |
| 22 | RUBBER DAM AIR PRESSURE | | 26 |
| 23 | BUS DIGITAL MULTI METER | | 26 |
| 24 | BUS FREQUENCY | | 26 |
| 25 | BUS VOLT METER | | 26 |
| 26 | OPERATOR INTERFACE UNIT | | 26 |
| 27 | BUS MULTI FUNCTION RELAY | | 26 |
| 28 | 66I COIL OK LIGHT | MUST BE LIT WHEN RESET | 26A |
| 29 | INTERTIE BREAKER | OPEN-CLOSED | 26B |
| 30 | 66P COIL OK LIGHT | MUST BE LIT WHEN RESET | 26A |
| 31 | INCOMING VOLT METER | | 26 |
| 32 | RUNNING VOLT METER | | 26 |
| 33 | INCOMING FREQUENCY | | 26 |
| 34 | RUNNING FREQUENCY | | 26 |

REV

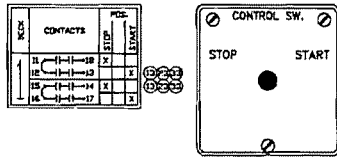
FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
CONTROL PANEL LAYOUT/DIMENSIONAL

REV BY DATE
A PT 11-10-08
B PT 8-11-09

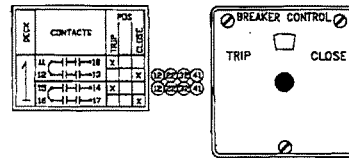
DWG No.: 08P0107-04
ENGR: B. BATHON

DATE: 9-25-08

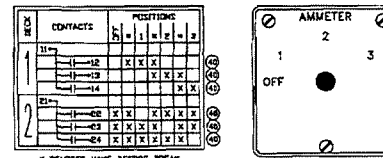
(1CS) START/STOP CONTROL SWITCH
(76201D)



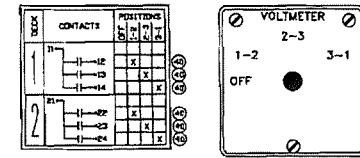
(52CS) BREAKER CONTROL SWITCH
(2641D)



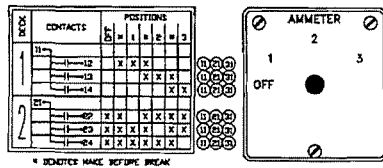
(BAS) BUS AMMETER SWITCH
(2610C)



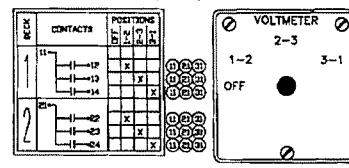
(RVS) BUS VOLTMETER SWITCH
(2604C)



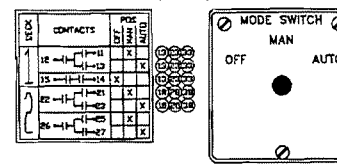
(GAS) GEN AMMETER SWITCH
(2610C)



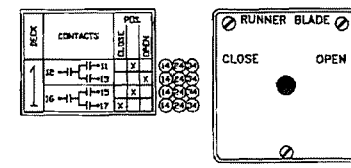
(GVS) GEN VOLTMETER SWITCH
(2604C)



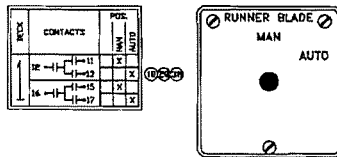
(MS) MODE SWITCH
(2620B)



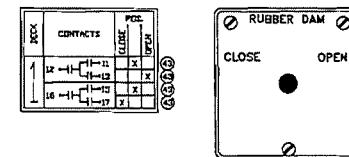
(RBGS) RUNNER BLADE CONTROL SWITCH
(76201D)



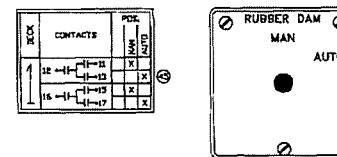
(RBMS) RUNNER BLADE MODE SWITCH
(2620B)



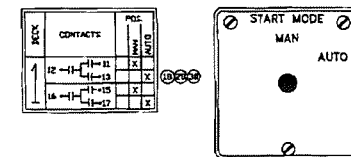
(RDGS) RUBBER DAM CONTROL SWITCH
(76201D)



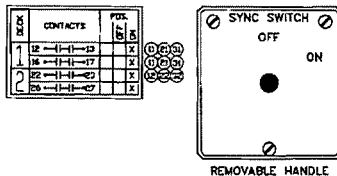
(RDMS) RUBBER DAM MODE SWITCH
(2620B)



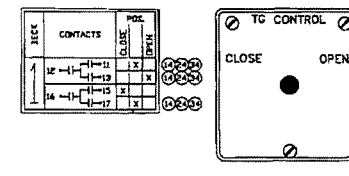
(SMS) START MODE SWITCH
(2620B)



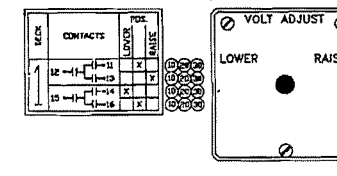
(SSW) SYNC SWITCH
(2624E)



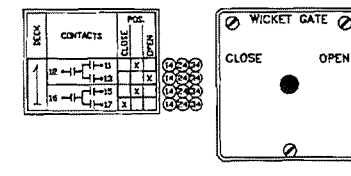
(TRCS) TURBINE GATE CONTROL SWITCH
(76201D-5)



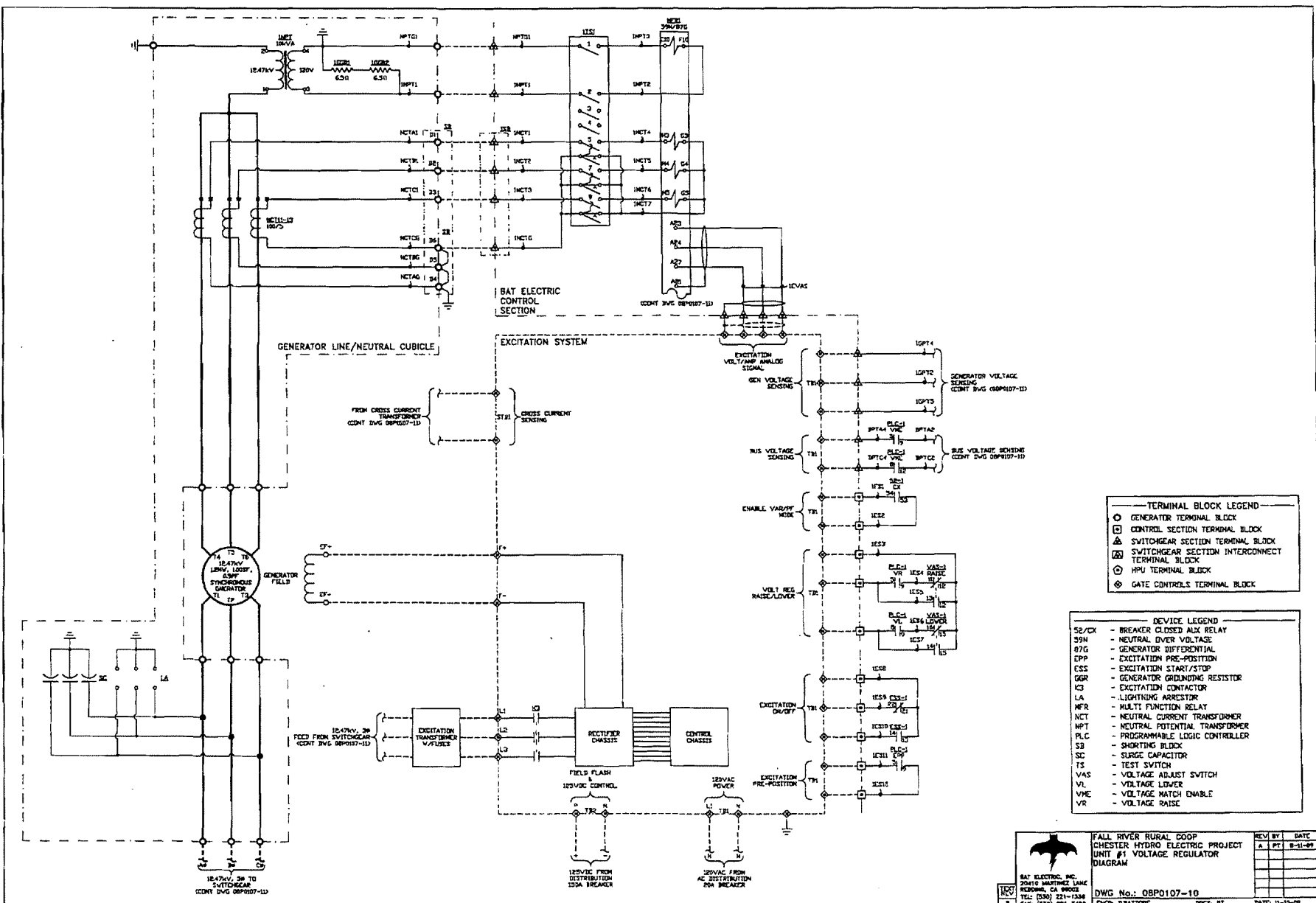
(VAS) VOLTAGE ADJUST SWITCH
(76201D)



(WGCS) WICKET GATE CONTROL SWITCH
(76201D)



| | | | |
|---|--|-----------|---------------|
| | FALL RIVER RURAL CORP CHESTER HYDRO ELECTRIC POWER SWITCH PLATES & TARGETS | REV. BY | DATE |
| | | | |
| BAT ELECTRIC, INC. 20419 HAWTHORNE LANE REDDING, CA 96003 TEL (530) 231-1234 FAX (530) 231-3456 | DWG No.: 08P0107-06 ENGR. DRAWING | DRFTY. PT | DATE: 8-18-09 |



TERMINAL BLOCK LEGEND

- GENERATOR TERMINAL BLOCK
- CONTROL SECTION TERMINAL BLOCK
- △ SWITCHGEAR SECTION TERMINAL BLOCK
- ⊠ SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK
- ⊙ MPU TERMINAL BLOCK
- ◇ GATE CONTROL'S TERMINAL BLOCK

DEVICE LEGEND

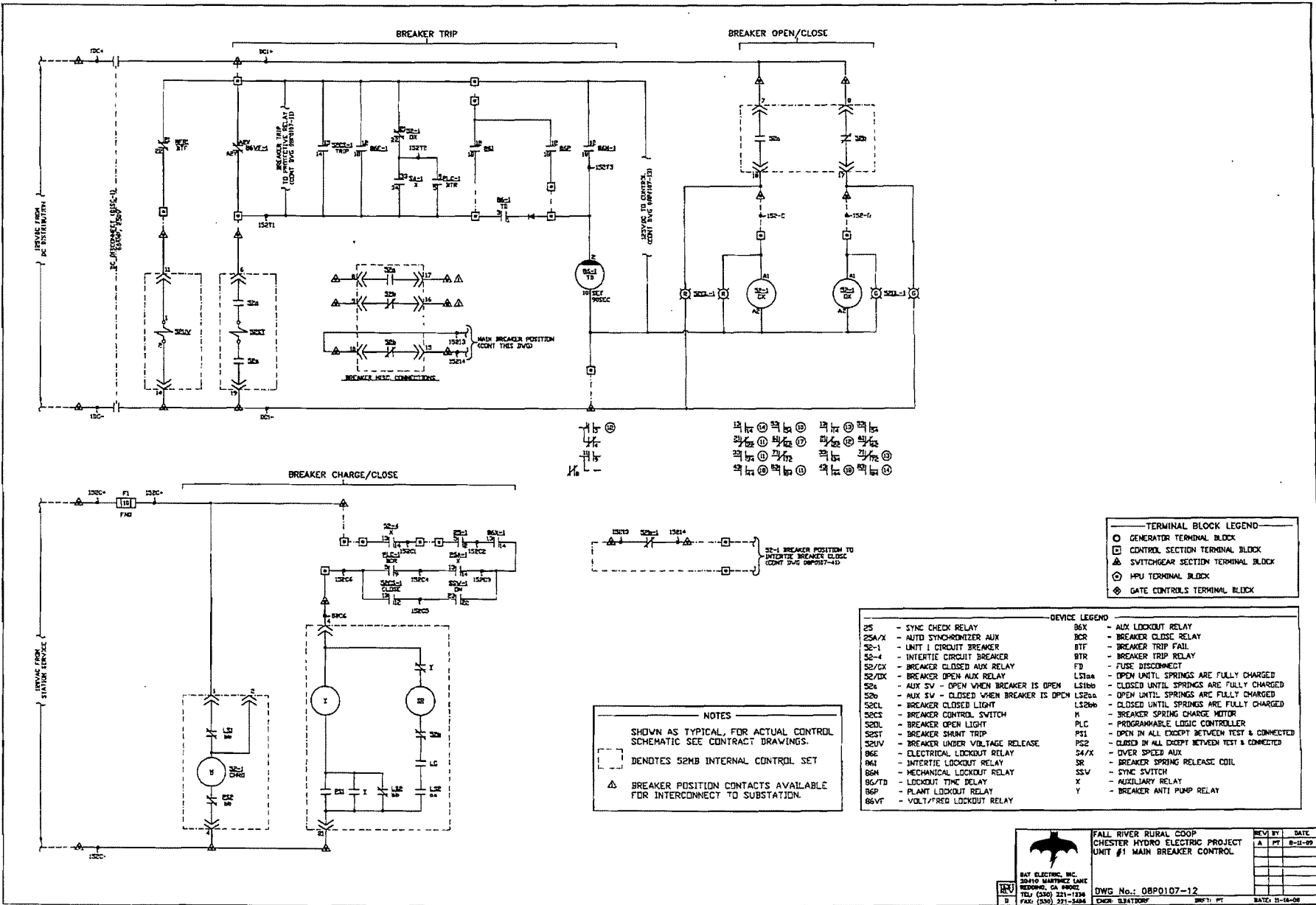
- 52/CX - BREAKER CLOSED ALX RELAY
- 55H - NEUTRAL OVER VOLTAGE
- 87G - GENERATOR DIFFERENTIAL
- EPP - EXCITATION PRE-POSITION
- ESS - EXCITATION START/STOP
- GGR - GENERATOR GROUNDING RESISTOR
- IC3 - EXCITATION CONTACTOR
- LA - LIGHTNING ARRESTOR
- MFR - MULTI FUNCTION RELAY
- NCT - NEUTRAL CURRENT TRANSFORMER
- NPT - NEUTRAL POTENTIAL TRANSFORMER
- PLC - PROGRAMMABLE LOGIC CONTROLLER
- SB - SHORTING BLOCK
- SC - SURGE CAPACITOR
- TS - TEST SWITCH
- VAS - VOLTAGE ADJUST SWITCH
- VL - VOLTAGE LOWER
- VME - VOLTAGE MATCH ENABLE
- VR - VOLTAGE RAISE

**FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
UNIT #1 VOLTAGE REGULATOR
DIAGRAM**

REV BY DATE
A PT 8-11-99

DWG No.: OBP0107-10
ENGR: SLM/TDRP DRTF: PT DATE: 11-10-98

BAT ELECTRIC, INC.
20415 MARTINEZ LANE
ROCKWELL, CA 94688
TEL: (925) 221-1338
FAX: (925) 221-2488



TERMINAL BLOCK LEGEND

| | |
|---|-----------------------------------|
| ○ | GENERATOR TERMINAL BLOCK |
| □ | CONTROL SECTION TERMINAL BLOCK |
| △ | SWITCHGEAR SECTION TERMINAL BLOCK |
| ⊙ | HFU TERMINAL BLOCK |
| ⊛ | GATE CONTROLS TERMINAL BLOCK |

DEVICE LEGEND

| | | | |
|-------|--|-------|---|
| 25 | - SYNC CHECK RELAY | 86X | - AUX LOCKOUT RELAY |
| 25A/X | - AUTO SYNCHRONIZER AUX | 8CR | - BREAKER CLOSE RELAY |
| 52-1 | - LIMIT 1 CIRCUIT BREAKER | 8TF | - BREAKER TRIP FAIL |
| 52-4 | - INTERTIE CIRCUIT BREAKER | 8TR | - BREAKER TRIP RELAY |
| 52/CX | - BREAKER CLOSED AUX RELAY | FD | - FUSE DISCONNECT |
| 52/TX | - BREAKER OPEN AUX RELAY | L31aa | - OPEN UNTIL SPRINGS ARE FULLY CHARGED |
| 52a | - AUX SV - OPEN WHEN BREAKER IS OPEN | L31bb | - CLOSED UNTIL SPRINGS ARE FULLY CHARGED |
| 52b | - AUX SV - CLOSED WHEN BREAKER IS OPEN | L32aa | - OPEN UNTIL SPRINGS ARE FULLY CHARGED |
| 52CL | - BREAKER CLOSED LIGHT | L32bb | - CLOSED UNTIL SPRINGS ARE FULLY CHARGED |
| 52CS | - BREAKER CONTROL SWITCH | M | - BREAKER SPRING CHARGE MOTOR |
| 52DL | - BREAKER OPEN LIGHT | PLC | - PROGRAMMABLE LOGIC CONTROLLER |
| 52ST | - BREAKER SHUNT TRIP | P31 | - OPEN IN ALL EXCEPT BETWEEN TEST & CONNECTED |
| 52UV | - BREAKER UNDER VOLTAGE RELEASE | P32 | - CLOSED IN ALL EXCEPT BETWEEN TEST & CONNECTED |
| 8KE | - ELECTRICAL LOCKOUT RELAY | 24/X | - OVER SPEED AUX |
| 8K1 | - INTERTIE LOCKOUT RELAY | SR | - BREAKER SPRING RELEASE COIL |
| 86/TD | - LOCKOUT TIME DELAY | SSV | - SYNC SWITCH |
| 86P | - PLANT LOCKOUT RELAY | X | - AUXILIARY RELAY |
| 86VT | - VOLT/FREQ LOCKOUT RELAY | Y | - BREAKER ANTI PUMP RELAY |

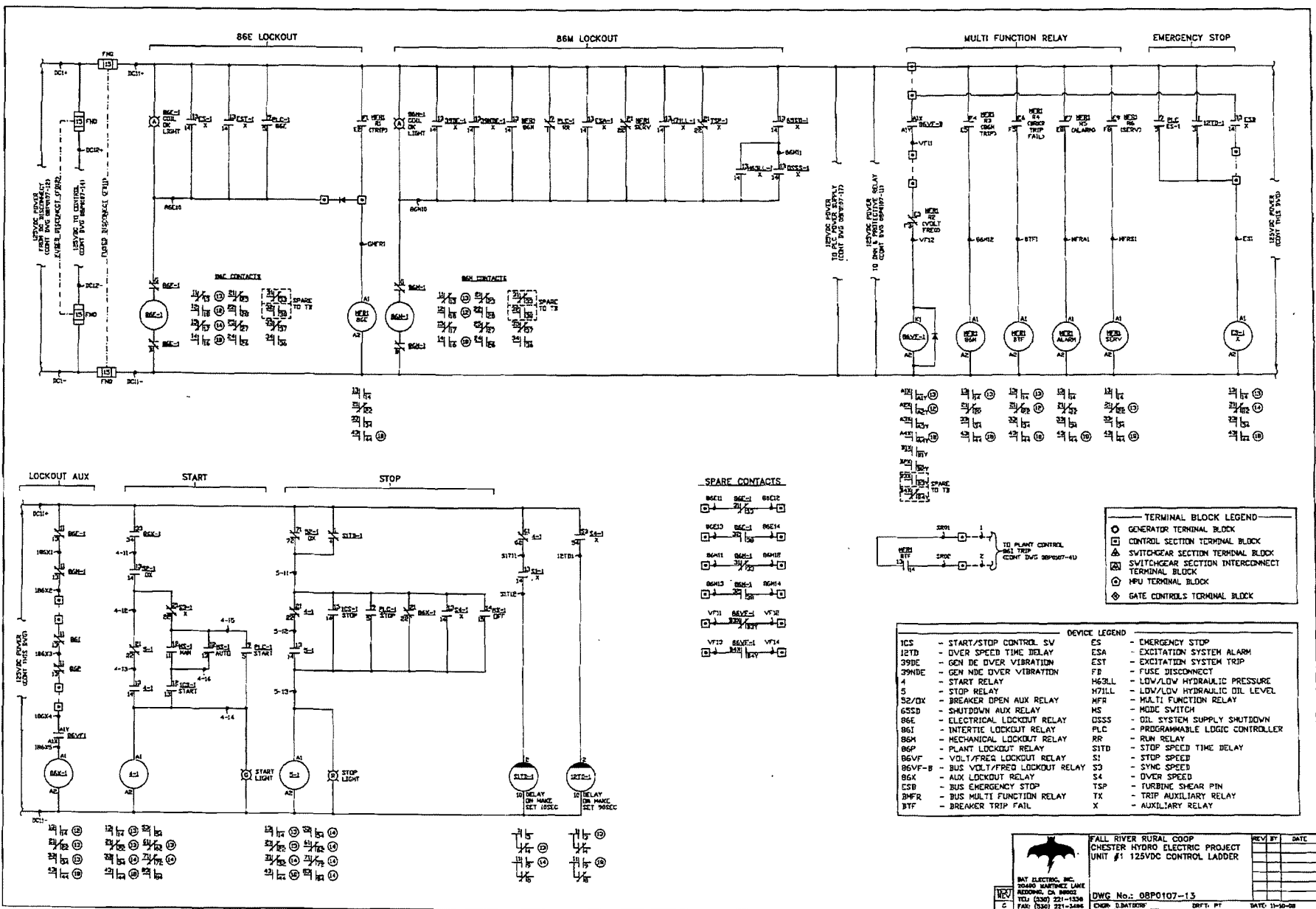
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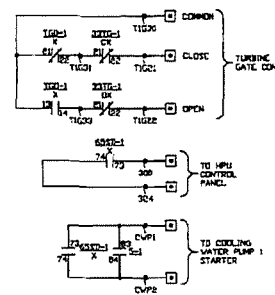
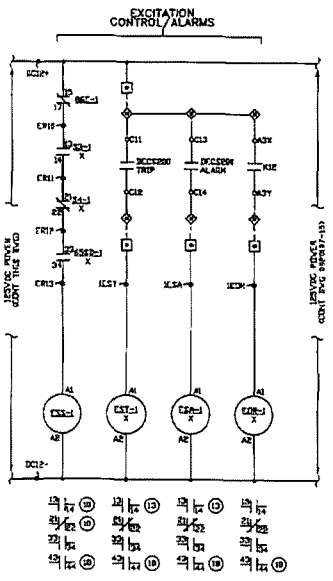
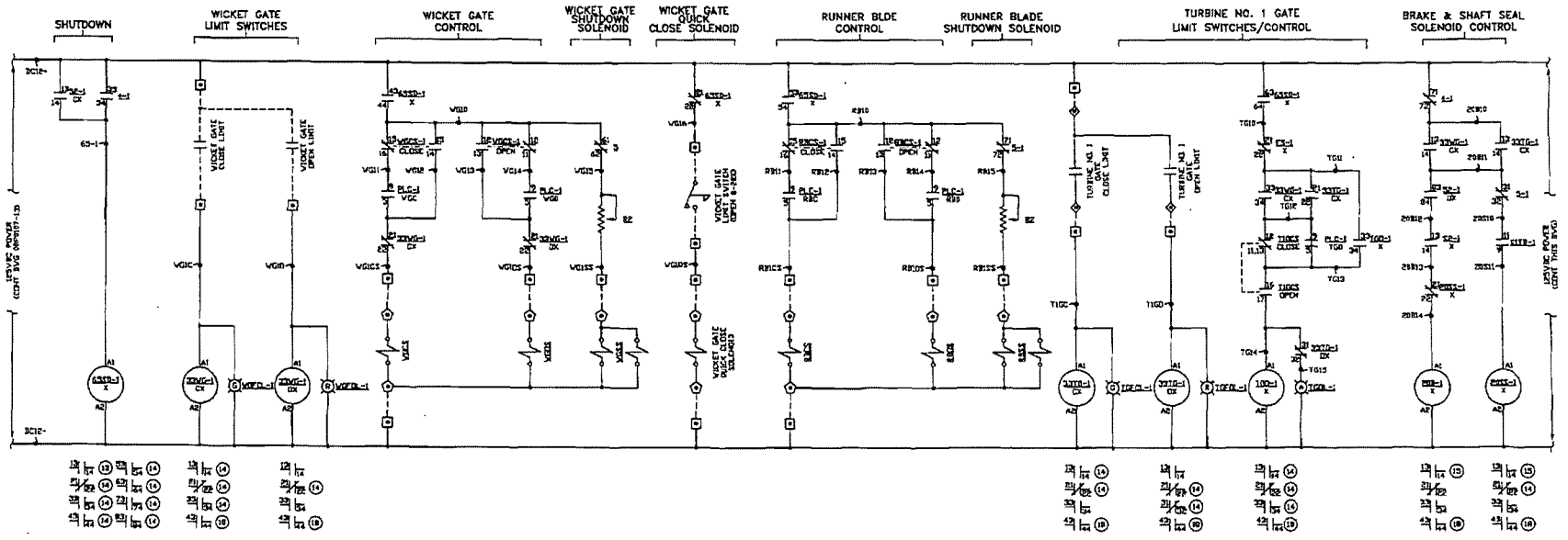
SHOWN AS TYPICAL, FOR ACTUAL CONTROL SCHEMATIC SEE CONTRACT DRAWINGS.

□ DENOTES 52MB INTERNAL CONTROL SET

△ BREAKER POSITION CONTACTS AVAILABLE FOR INTERCONNECT TO SUBSTATION.

| | | |
|---|--|--|
| <p>BAT ELECTRIC, INC. 20410 MARTINEZ LANE REDWOOD, CA 94062 TEL: (530) 231-1234 FAX: (530) 231-3434</p> | <p>FALL RIVER RURAL COOP CHESTER HYDRO ELECTRIC PROJECT UNIT #1 MAIN BREAKER CONTROL</p> | <p>REV BY DATE</p> <p>A PT 8-11-09</p> |
| | <p>DWG No.: OBP0107-12</p> <p>ENGR: BLATBORF</p> <p>DFT: PT</p> <p>DATE: 11-16-08</p> | |





TERMINAL BLOCK LEGEND

- GENERATOR TERMINAL BLOCK
- CONTROL SECTION TERMINAL BLOCK
- △ SWITCHGEAR SECTION TERMINAL BLOCK
- ⊠ SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK
- ⊙ HPU TERMINAL BLOCK
- ⊕ GATE CONTROLS TERMINAL BLOCK

DEVICE LEGEND

| | |
|--|--|
| 20B - BRAKE SOLENOID | RBCS - RUNNER BLADE CONTROL SWITCH |
| 20SS - SHAFT SEAL SOLENOID | RBO - RUNNER BLADE OPEN |
| 33TG/CX - TURBINE GATE CLOSE AUX RELAY | RBSO - RUNNER BLADE OPEN SOLENOID |
| 33TG/OX - TURBINE GATE OPEN AUX RELAY | RBSOS - RUNNER BLADE SHUTDOWN SOLENOID |
| 33WG/CX - WICKET GATE CLOSE AUX RELAY | S1TD - STOP SPEED TIME DELAY |
| 33WG/OX - WICKET GATE OPEN AUX RELAY | S2 - UNDER SPEED |
| 4 - START RELAY | S3 - SYNC SPEED |
| 5 - STOP RELAY | S4 - OVRER SPEED |
| 52/CX - BREAKER CLOSE AUX RELAY | TGFDL - TURBINE GATE FULL CLOSED LIGHT |
| 52/OX - BREAKER OPEN AUX RELAY | TGFDL - TURBINE GATE FULL OPEN LIGHT |
| 65SD - SHUTDOWN AUX RELAY | TGO - TURBINE GATE OPEN RELAY |
| 85C - ELECTRICAL LOCKOUT RELAY | TGOL - TURBINE GATE OPENING LIGHT |
| DECS 200 - VOLTAGE REGULATOR | TGCS - TURBINE GATE CONTROL SWITCH |
| EDR - EXCITATION ON RELAY | TSP - TURBINE SHEAR PIN |
| ES - EMERGENCY STOP | WGFC - WICKET GATE FULL CLOSED LIGHT |
| ESA - EXCITATION SYSTEM ALARM | WGC - WICKET GATE CLOSE |
| ESS - EXCITATION START/STOP | WGCSS - WICKET GATE CLOSE SOLENOID |
| EST - EXCITATION SYSTEM TRIP | WGCS - WICKET GATE CONTROL SWITCH |
| MS - MODE SWITCH | WGFDL - WICKET GATE FULL OPEN LIGHT |
| PLC - PROGRAMMABLE LOGIC CONTROLLER | WGO - WICKET GATE OPEN |
| R2 - 250. 100V SLIDIC RESISTOR | WGOSS - WICKET GATE SHUTDOWN SOLENOID |
| RBC - RUNNER BLADE CLOSE | X - AUXILIARY RELAY |
| RBCS - RUNNER BLADE CLOSE SOLENOID | |

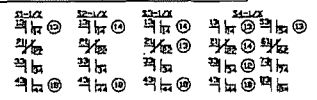
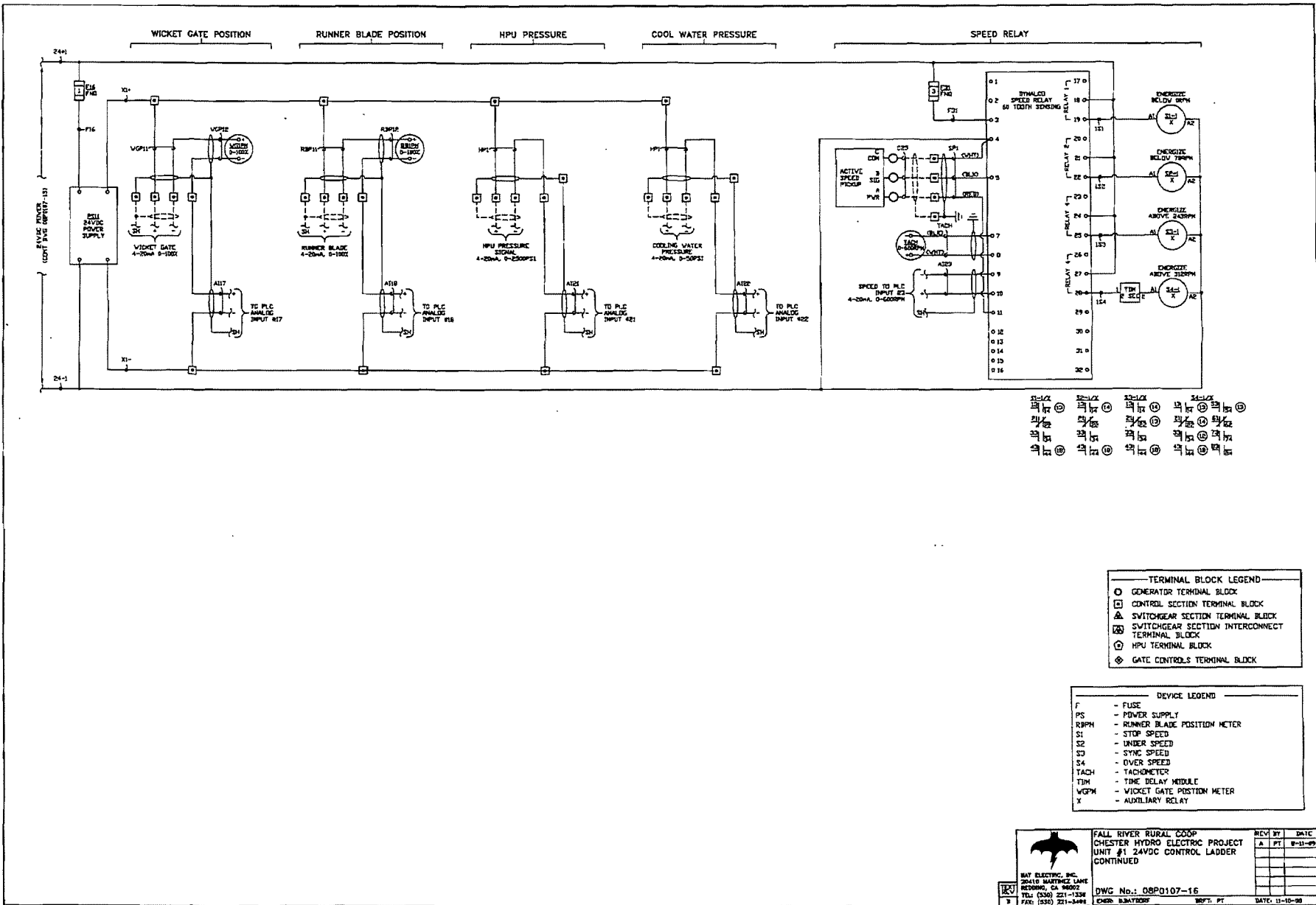
FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
UNIT #1 125VDC CONTROL LADDER
CONTINUED

DWG No.: 08P01007-14

REV BY DATE
A 1 PT 0-11-79

817 ELECTRIC, INC.
20410 MARTINEZ LANE
REDWOOD, CA 94063
TEL (415) 221-1536
FAX (415) 221-3486

ENGR. LABORATORY
DATE: 11-10-08



— TERMINAL BLOCK LEGEND —

- GENERATOR TERMINAL BLOCK
- CONTROL SECTION TERMINAL BLOCK
- △ SWITCHGEAR SECTION TERMINAL BLOCK
- ⊞ SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK
- ⊙ HPU TERMINAL BLOCK
- ⊕ GATE CONTROL'S TERMINAL BLOCK

— DEVICE LEGEND —

- F - FUSE
- PS - POWER SUPPLY
- RBPH - RUNNER BLADE POSITION METER
- S1 - STOP SPEED
- S2 - UNDER SPEED
- S3 - SYNC SPEED
- S4 - OVER SPEED
- TACH - TACHOMETER
- TDM - TIME DELAY MIDDLE
- VGPM - VICKET GATE POSITION METER
- X - AUXILIARY RELAY

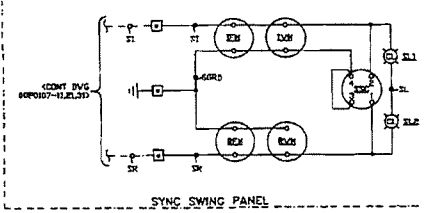
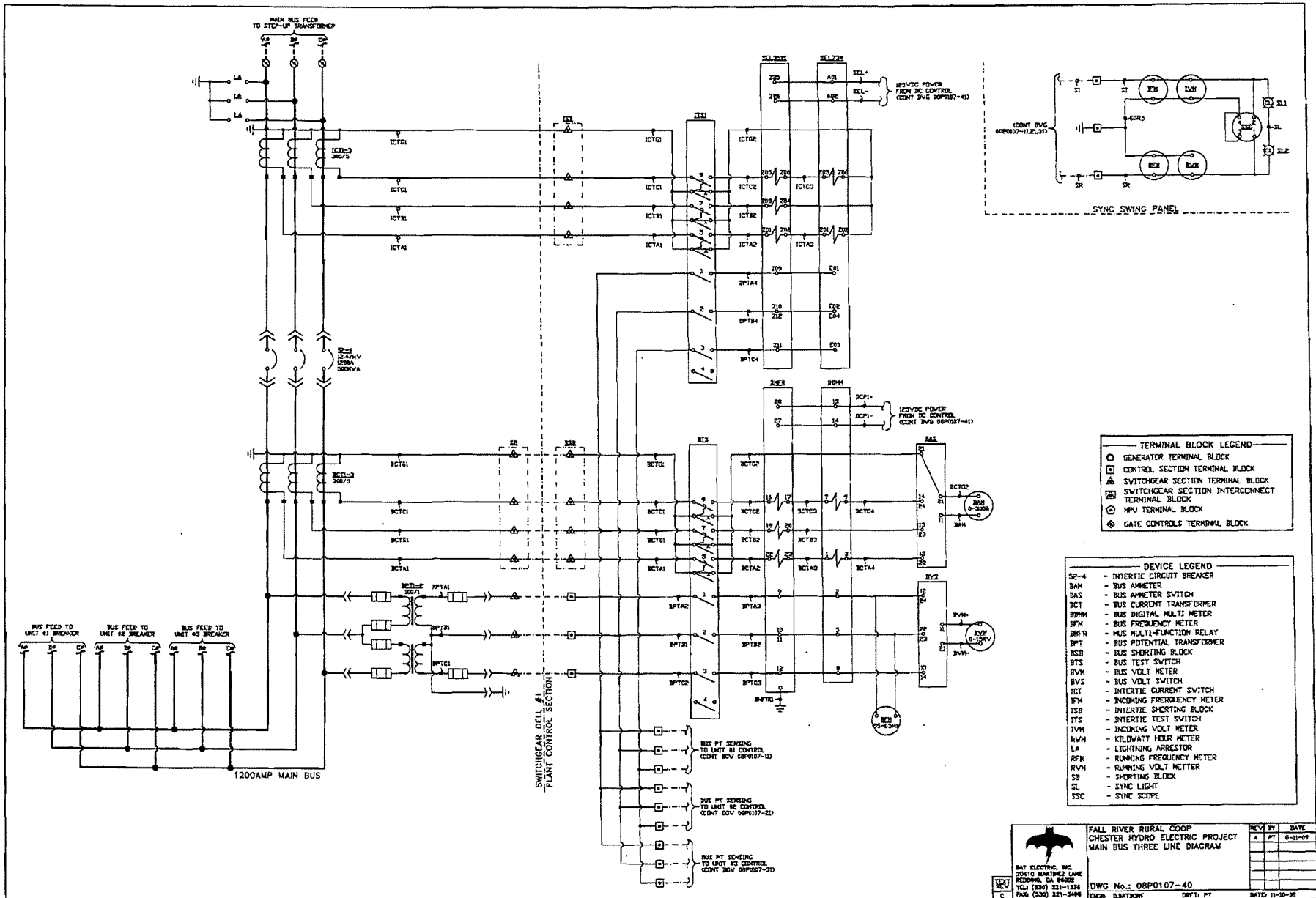
DAY ELECTRIC, INC.
28415 HARTZELL LANE
REDDING, CA 96002
TEL: (530) 221-1328
FAX: (530) 221-3481

FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
UNIT #1 24VDC CONTROL LADDER
CONTINUED

DWG No.: 08P0107-16
ENGR: BLMAYORS

| REV BY | DATE |
|--------|---------|
| A PT | 8-11-89 |
| | |
| | |
| | |

ENGR: BLMAYORS BQFT: PT DATE: 11-10-98



- TERMINAL BLOCK LEGEND**
- GENERATOR TERMINAL BLOCK
 - CONTROL SECTION TERMINAL BLOCK
 - △ SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK
 - ⊞ MPU TERMINAL BLOCK
 - ⊞ GATE CONTROLS TERMINAL BLOCK

- DEVICE LEGEND**
- SC-4 - INTERTIE CIRCUIT BREAKER
 - BAM - BUS AMMETER
 - BAS - BUS AMMETER SWITCH
 - BCT - BUS CURRENT TRANSFORMER
 - BDM - BUS DIGITAL MULTI METER
 - BFM - BUS FREQUENCY METER
 - BMR - BUS MULTI-FUNCTION RELAY
 - BPT - BUS POTENTIAL TRANSFORMER
 - BSB - BUS SHORTING BLOCK
 - BTS - BUS TEST SWITCH
 - BVM - BUS VOLT METER
 - BVS - BUS VOLT SWITCH
 - IST - INTERTIE CURRENT SWITCH
 - IFM - INCENDING FREQUENCY METER
 - ISB - INTERTIE SHORTING BLOCK
 - ITS - INTERTIE TEST SWITCH
 - IVM - INCENDING VOLT METER
 - KWM - KILOWATT HOUR METER
 - LA - LIGHTNING ARRESTER
 - RFM - RUNNING FREQUENCY METER
 - RVH - RUNNING VOLT METER
 - SB - SHORTING BLOCK
 - SL - SYNC LIGHT
 - SSC - SYNC SCOPE

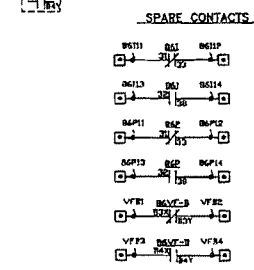
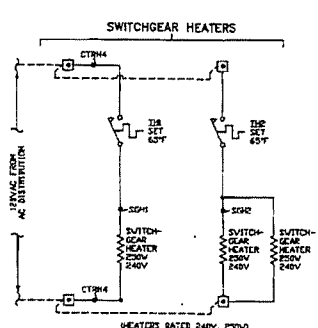
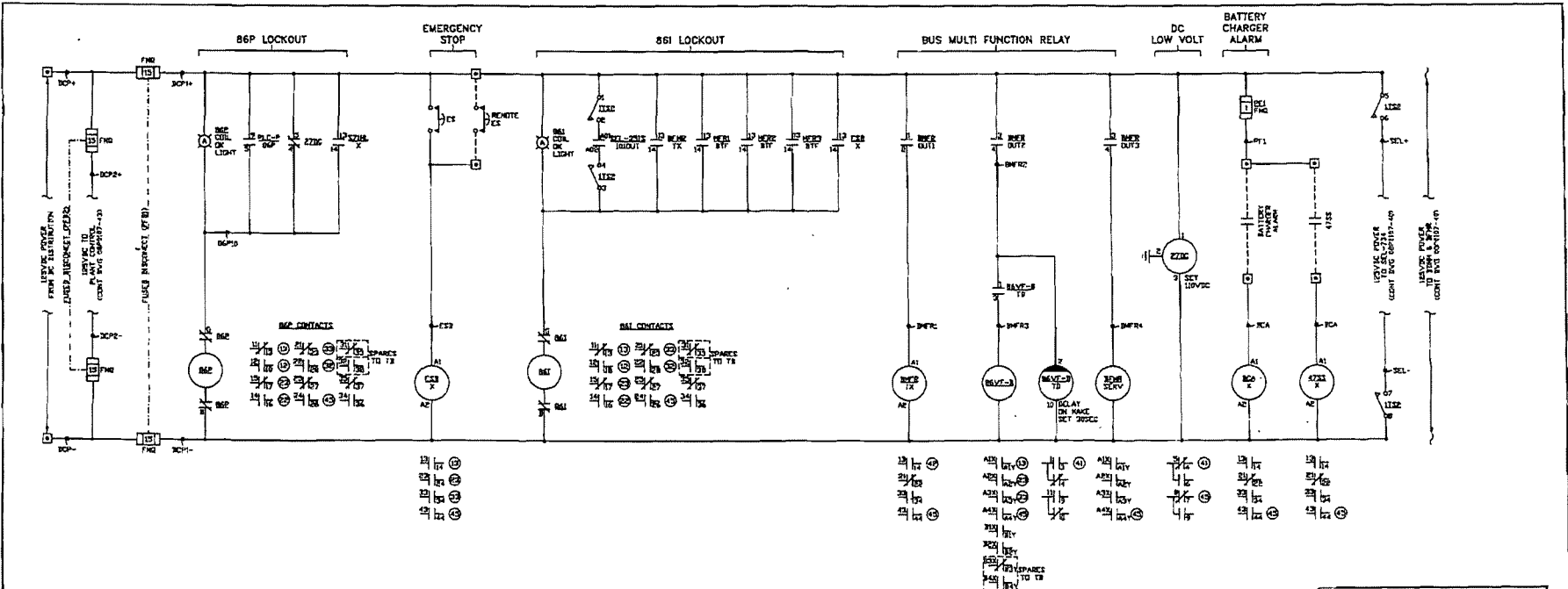
**FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
MAIN BUS THREE LINE DIAGRAM**

REV# BY DATE

| | | |
|---|----|---------|
| A | PT | 8-11-91 |
| | | |
| | | |
| | | |

DWG No.: 08P0107-40
ENGR: BLANKENHORN DFT: PT DATE: 11-10-98

DAY ELECTRIC, INC.
20410 MARINE LANE
REDWOOD, CA 95470
TEL: (925) 231-1324
FAX: (925) 231-3496



TERMINAL BLOCK LEGEND

- GENERATOR TERMINAL BLOCK
- CONTROL SECTION TERMINAL BLOCK
- △ SWITCHGEAR SECTION TERMINAL BLOCK
- ⊠ SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK
- ⊙ HPU TERMINAL BLOCK
- ⊕ GATE CONTROLS TERMINAL BLOCK

DEVICE LEGEND

- 27DC - DC UNDER VOLTAGE
- 47SS - STATEN SERVICE VOLTAGE OK
- 86I - INTERTIE LOCKOUT RELAY
- 86P - PLANT LOCKOUT RELAY
- 86VF-3 - BUS VOLT/FREQ LOCKOUT RELAY
- 86VF/TD - BUS VOLT/FREQ LOCKOUT TIME DELAY
- BCA - BATTERY CHARGER ALARM
- BWFR - BUS MULTI FUNCTION RELAY
- BTF - BREAKER TRIP FAIL
- EA - EMERGENCY STOP
- ESB - BUS EMERGENCY STOP
- MFR - MULTI FUNCTION RELAY
- PF - PLANT FUSE
- PF-D - PLANT FUSE DISCONNECT
- PLC - PROGRAMMABLE LOGIC CONTROLLER
- STIML - SUMP HIGH LEVEL
- TH - THERMOSTAT
- TX - TRIP AUXILIARY RELAY
- X - AUXILIARY RELAY

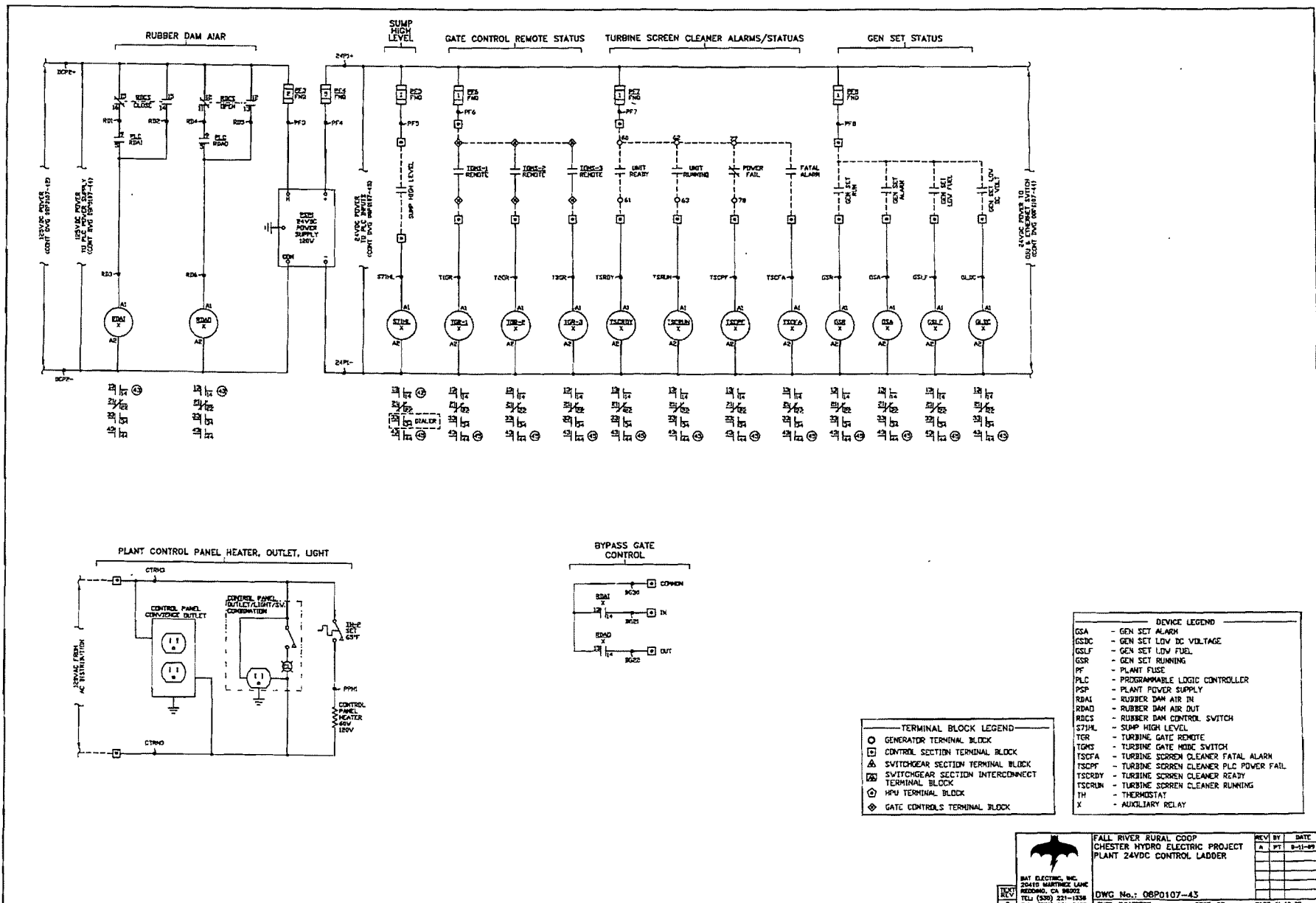
FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
PLANT 125VDC CONTROL LADDER

| REV | BY | DATE |
|-----|----|---------|
| A | PT | 8-11-89 |
| | | |
| | | |
| | | |

DAY ELECTRIC, INC.
25410 MARSHALL LANE
REDWOOD, CA 94062
TEL: (708) 221-1336
FAX: (530) 221-3498

DWC No.: 08P0107-42
ENGR: S.MATTOFF

REV: PT
DATE: 11-10-90

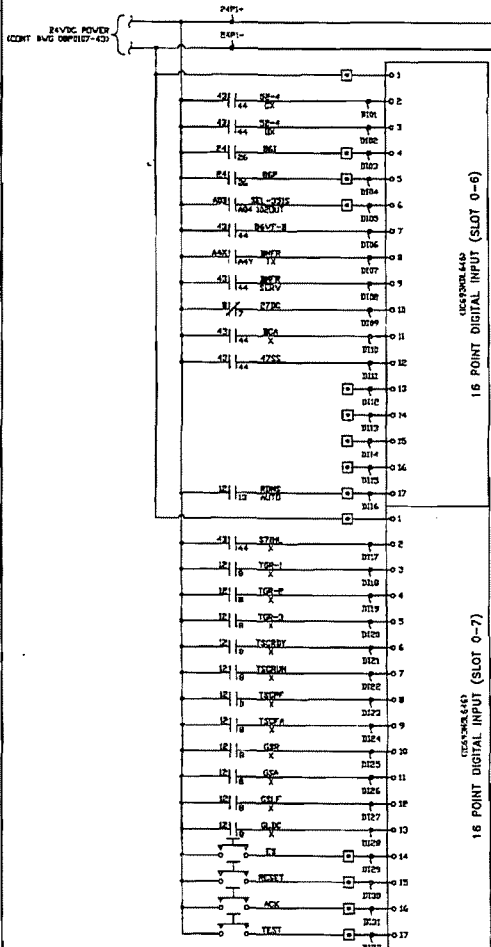


FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
PLANT 24VDC CONTROL LADDER

| REV | BY | DATE |
|-----|-------|---------|
| 1 | A. PT | 8-11-89 |
| | | |
| | | |
| | | |
| | | |

BAT ELECTRIC, INC.
 20410 MARTINEZ LANE
 REDDING, CA 96002
 TEL: (530) 221-1338
 FAX: (530) 221-3486

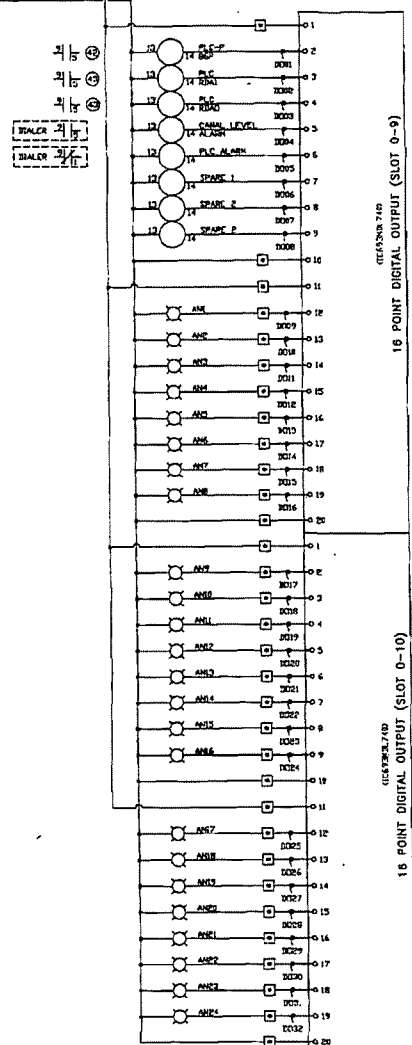
DWG No.: 06P0107-43
 CHDR: BLMATROW
 DRFT: PT
 DATE: 11-18-08



16 POINT DIGITAL INPUT (SLOT 0-6)

16 POINT DIGITAL INPUT (SLOT 0-7)

| DEVICE LEGEND | | |
|--------------------------------------|-------------------------------------|--|
| 27DC - DC UNDER VOLTAGE | ES - EMERGENCY STOP | S7HR - SLUMP HIGH LEVEL |
| 47SS - STATION SERVICE VOLTAGE OK | GSA - GEN SET ALARM | TGR - TURBINE GATE REMOTE |
| S2-4/CX - INTERTIE BREAKER CLOSE AUX | GLDC - GEN SET LOW DC VOLTAGE | TSCFA - TURBINE SCREEN CLEANER FATAL ALARM |
| S2-4/OX - INTERTIE BREAKER OPEN AUX | GSLF - GEN SET LOW FUEL | TSCPF - TURBINE SCREEN CLEANER POWER FAIL |
| 96L - INTERTIE LOCKOUT RELAY | GSR - GEN SET RUNNING | TSDRDY - TURBINE SCREEN CLEANER/UMT READY |
| 96P - PLANT LOCKOUT RELAY | PLC - PROGRAMMABLE LOGIC CONTROLLER | TSCRUN - TURBINE SCREEN CLEANER RUNNING |
| 86VF-B - BUS VOLT/FREQ LOCKOUT RELAY | RBAI - RUBBER DAM AIR IN | X - AUXILIARY RELAY |
| 86A - BATTERY CHARGER ALARM | RBAO - RUBBER DAM AIR OPEN | |
| 3MFR - BUS MULTI FUNCTION RELAY | RDM5 - RUBBER DAM MODE SWITCH | |



16 POINT DIGITAL OUTPUT (SLOT 0-9)

16 POINT DIGITAL OUTPUT (SLOT 0-10)

TERMINAL BLOCK LEGEND

| | |
|---|--|
| ○ | GENERATOR TERMINAL BLOCK |
| □ | CONTROL SECTION TERMINAL BLOCK |
| △ | SWITCHGEAR SECTION TERMINAL BLOCK |
| ⊞ | SWITCHGEAR SECTION INTERCONNECT TERMINAL BLOCK |
| ⊕ | KPU TERMINAL BLOCK |
| ⊗ | GATE CONTROLS TERMINAL BLOCK |

ANNUNCIATOR LEGEND

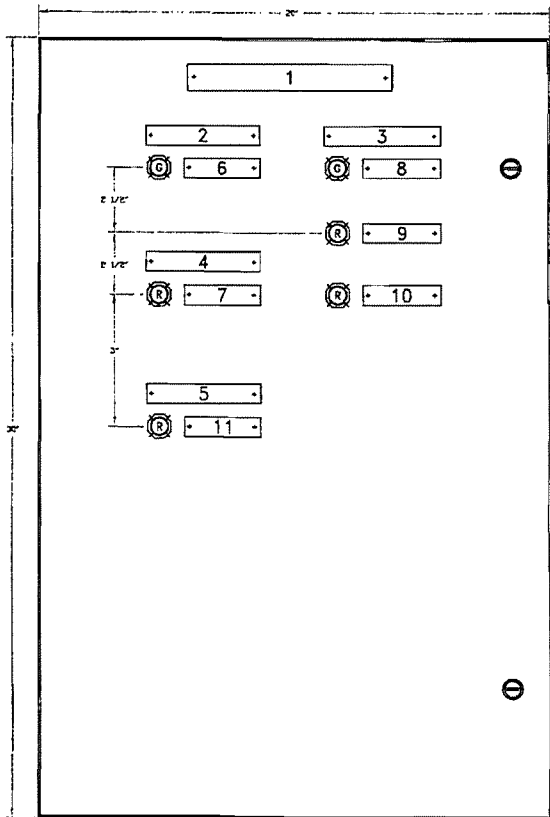
| | |
|------|---|
| AN1 | - 86VF BUS VOLT/FREQ LOCKOUT TRIPPED |
| AN2 | - 96L INTERTIE LOCKOUT TRIPPED |
| AN3 | - 86P PLANT LOCKOUT TRIPPED |
| AN4 | - N3410A B6E TRIP |
| AN5 | - N3410A SERVICE ALARM |
| AN6 | - INTERTIE SEL-321S TRIP |
| AN7 | - GEN SET RUNNING |
| AN8 | - GEN SET ALARM |
| AN9 | - GEN SET LOW FUEL |
| AN10 | - AUTO TRANSFER SWITCH IN EMERGENCY |
| AN11 | - AUTO TRANSFER SWITCH IN ALARM |
| AN12 | - DC UNDER VOLT |
| AN13 | - BATTERY CHARGER ALARM |
| AN14 | - SLUMP PIT HIGH LEVEL |
| AN15 | - TURBINE PIT HIGH LEVEL |
| AN16 | - |
| AN17 | - |
| AN18 | - LEVEL CONTROL NOT AUTO |
| AN19 | - EMERGENCY STOP PUSHBUTTON PRESSED |
| AN20 | - TURBINE INLET GATE L2,3 NOT IN REMOTE |
| AN21 | - CANAL LEVEL HIGH/LOW ALARM |
| AN22 | - SCREEN CLEANER ALARM |
| AN23 | - SCREEN LEVEL DIFFERENTIAL ALARM |
| AN24 | - PLC ALARM |

BAT ELECTRIC, INC.
2040 BARTISSE LANE
REDWOOD, CA 95072
TEL. (530) 231-1238
FAX. (530) 231-3486

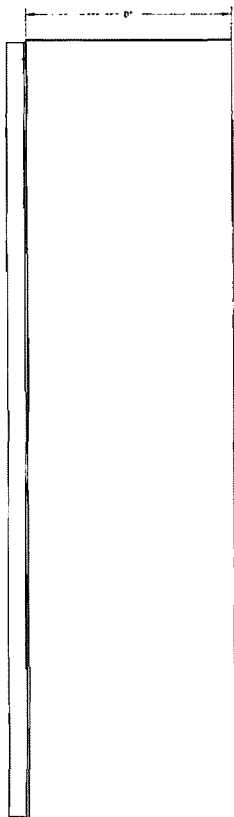
FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
PLANT PLC DIGITAL INPUT/OUTPUT

| REV. BY | DATE |
|---------|---------|
| A. P.T. | 8-11-09 |
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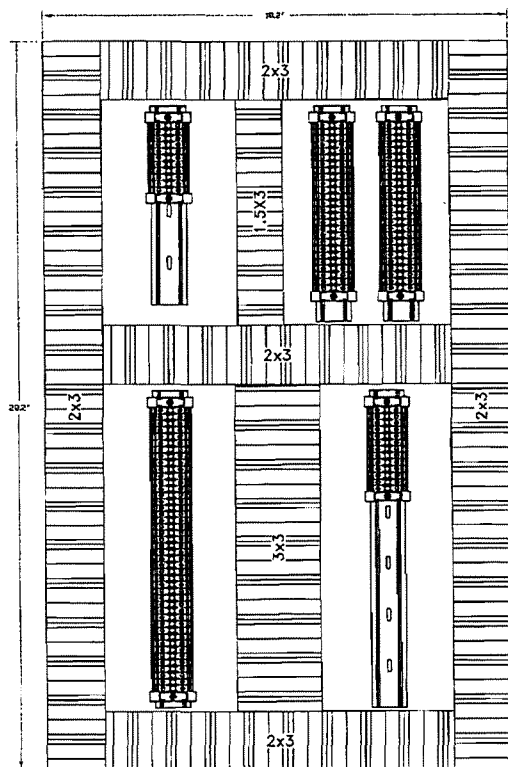
DWG No.: OBP0107-45
ENGR: DBAT209P
DATE: 11-10-08



DOOR LAYOUT

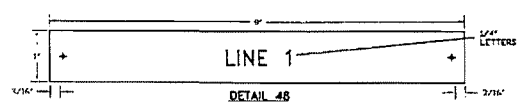
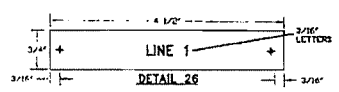
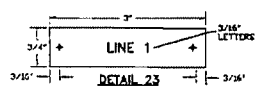


SIDE VIEW

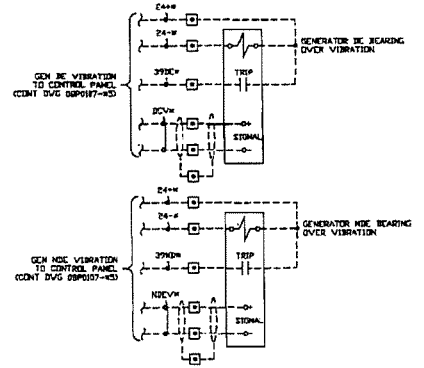
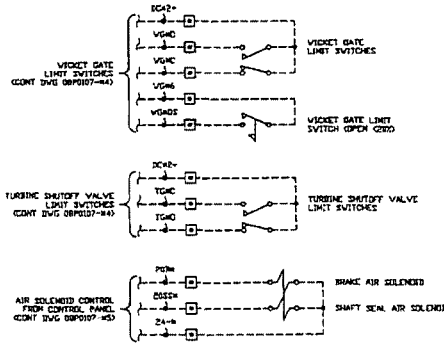
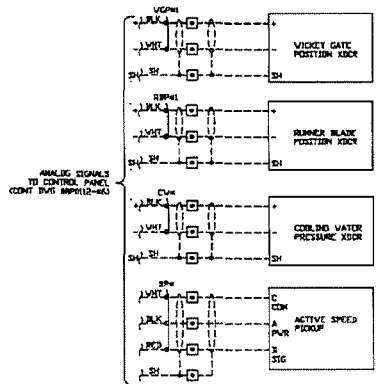
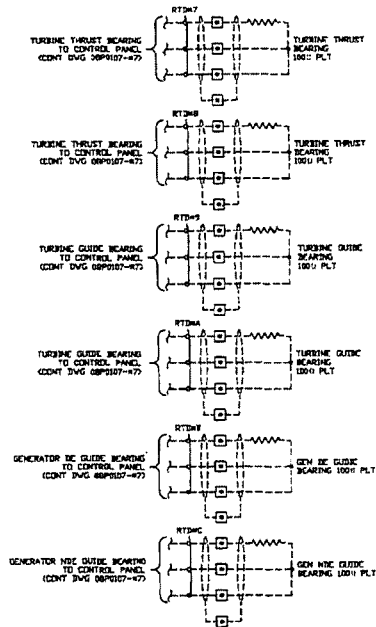
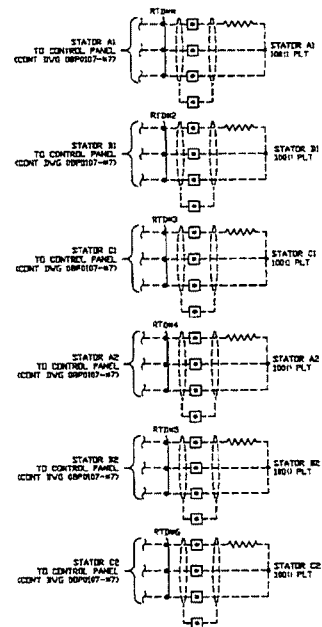
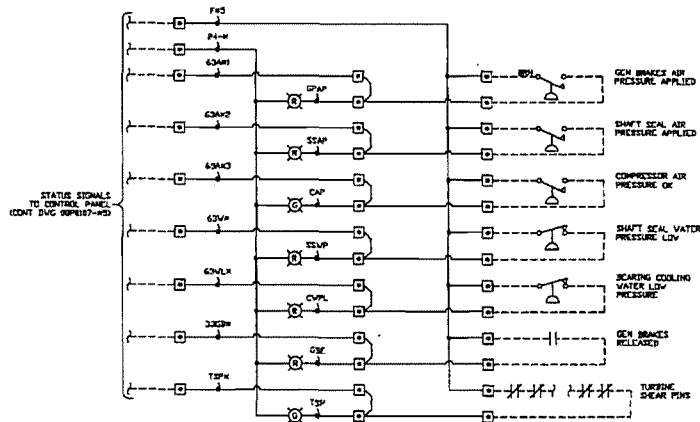


BACKPAN LAYOUT

| NAMEPLATE LEGEND | | |
|------------------|----------------------------|--------|
| | LINE 1 | DETAIL |
| 1A | UNIT #1 ALARM STATUS PANEL | 4B |
| 1B | UNIT #2 ALARM STATUS PANEL | 4B |
| 1C | UNIT #3 ALARM STATUS PANEL | 4B |
| 2 | AIR PRESSURE | 26 |
| 3 | SHEAR PIN | 26 |
| 4 | GEN BRKES | 26 |
| 5 | SHAFT SEAL | 26 |
| 6 | CIRCUIT DK | 29 |
| 7 | ENGAGED | 29 |
| 8 | COMPRESSOR AIR DK | 29 |
| 9 | GEN BRKES APPLIED | 29 |
| 10 | SHAFT SEAL APPLIED | 29 |
| 11 | LOW PRES. | 29 |



| | | | |
|--|--|--|-----------------------------|
| | BAY ELECTRIC, INC. 20410 MARTINEZ LANE REDDING, CA 96002 TEL: (530) 221-1338 FAX: (530) 221-3498 | FALL RIVER RURAL COOP CHESTER HYDRO ELECTRIC PROJECT UNIT #1, #2 & #3 ALARM STATUS PANEL LAYOUT/DIMENSIONAL | REV BY DATE A PT 8-11-07 |
| | DWG No.: 08P0107-ASP1 ENGR. B.MAYNOR | 20FT. PT. DATE: 8-10-08 | |

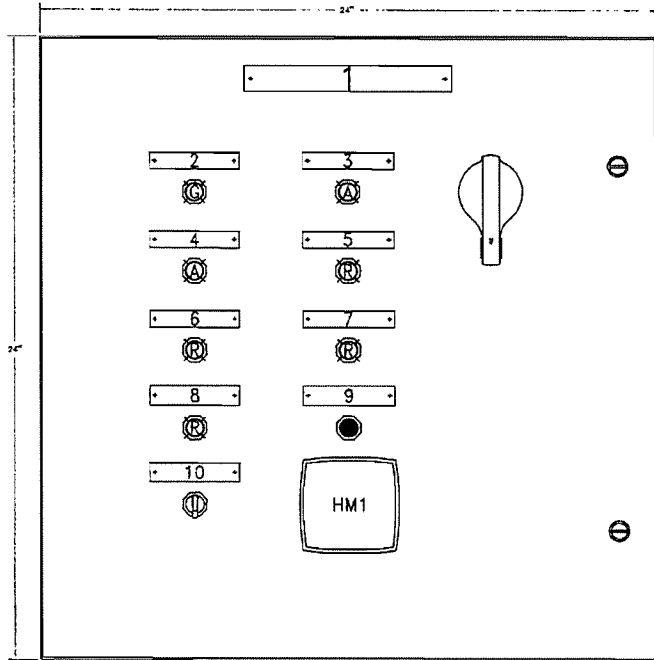


**FALL RIVER RURAL COOP
CHESTER HYDRO ELECTRIC PROJECT
UNIT #1 ALARM STATUS PANEL
WIRING DIAGRAM**

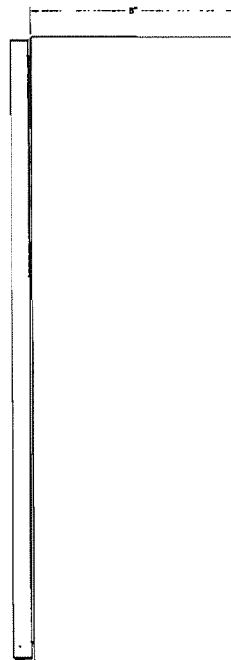
REV BY DATE
A PT 8-11-09

DAY ELECTRIC, INC.
20410 MARTINEZ LANE
RENO, NV 89502
TEL: (775) 221-1338
FAX: (775) 221-3496

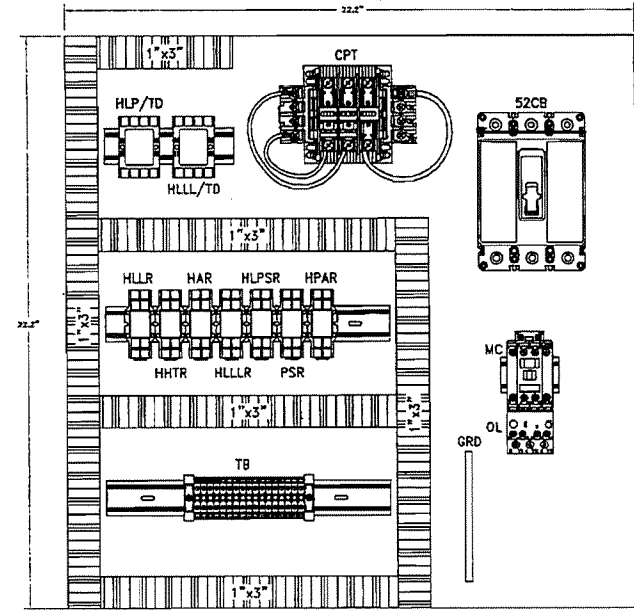
DWG No.: 08P0107-ASP2
DESIGN: B.MATTHEW
DRAFT: PT
DATE: 11-10-08



PANEL LAYOUT
24"Hx24"Wx8"D

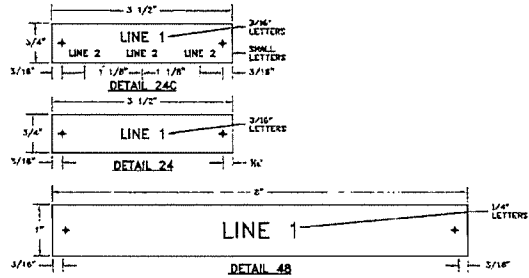


SIDE VIEW




BACKPAN LAYOUT

| NAMEPLATES | | | |
|------------|--------------------|---------------|----|
| LINE 1 | LINE 2 | DETAIL | |
| 1 | HPU CONTROL PANEL | 48 | |
| 2 | POWER AVAILABLE | 24 | |
| 3 | HIGH TEMP | 24 | |
| 4 | LOW LEVEL | | |
| 5 | LOW PRESSURE | 24 | |
| 6 | LOW LEVEL SHUTDOWN | 24 | |
| 7 | LOW PRES SHUTDOWN | 24 | |
| 8 | PUMP RUN | 24 | |
| 9 | RESBY | 24 | |
| 10 | PUMP MODE SV | HAND-OFF-AUTO | 24 |

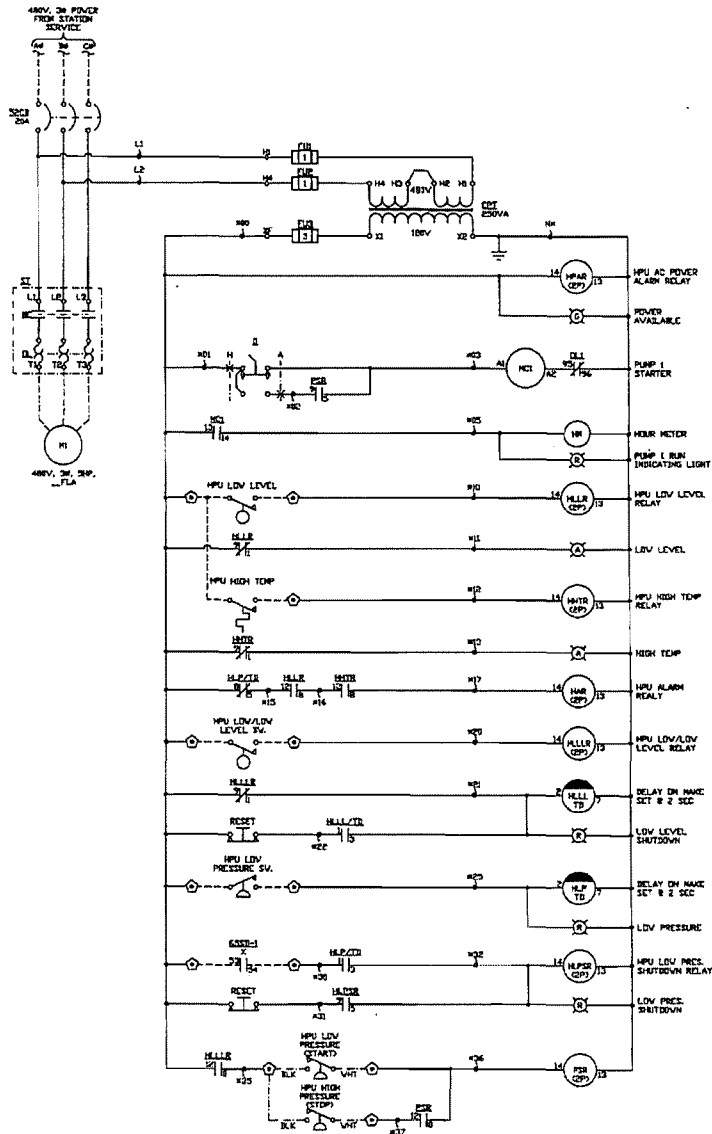


| DEVICE LEGEND | |
|---------------|--------------------------------------|
| 32CB | - CIRCUIT BREAKER |
| CPT | - CONTROL POWER TRANSFORMER |
| HAR | - HPU ALARM RELAY |
| HHTR | - HPU HIGH TEMP RELAY |
| HLLR | - HPU LDV/LDW LEVEL RELAY |
| HLL | - HPU LOW LEVEL RELAY |
| HLL/TD | - HPU LDV/LDW LEVEL TIME DELAY RELAY |
| HLP/TD | - HPU LDV PRESSURE TIME DELAY RELAY |
| H.PSR | - HPU LDV PRESSURE SHUTDOWN RELAY |
| HM | - HOURMETER |
| HPAR | - HPU POWER AVAILABLE RELAY |
| MC | - MOTOR CONTACTOR |
| OL | - OVERLOAD |
| PSR | - PUMP START RELAY |
| TB | - TERMINAL BLOCK |

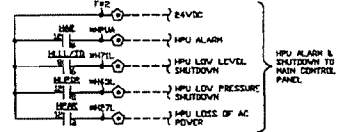

FALL RIVER RURAL CORP
CHESTER HYDRO ELECTRIC PROJECT
HYDRAULIC PUMP CONTROL PANEL
LAYOUT/DIMENSIONAL

DWG No.: 0BP0107-HPC1
 ENGR: S.BATBORF
 SHEET: P1
 DATE: 8-11-09

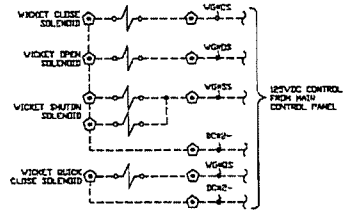
| REV | DATE | BY | CHKD |
|-----|------|----|------|
| 4 | | | |



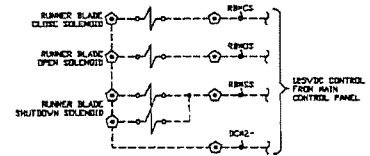
HPU ALARMS/SHUTDOWN



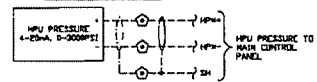
WICKET GATE HYDRAULIC SOLENOIDS



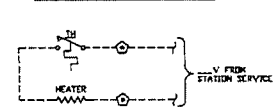
RUNNER BLADE HYDRAULIC SOLENOIDS



HPU PRESSURE TRANSDUCER



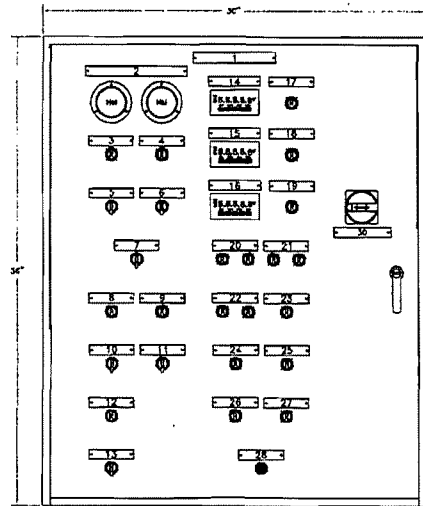
HPU RESERVOIR HEATER



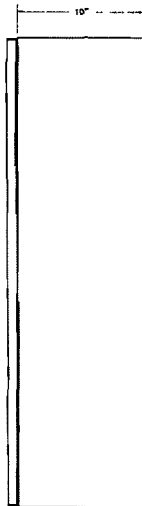
NOTES: * DENOTES 1, 2, 3 FOR UNIT #1, #2, #3

| DEVICE LEGEND | |
|---------------|-----------------------------------|
| SCSB | - CIRCUIT BREAKER |
| GSSD/X | - SHUTDOWN AUX RELAY |
| OPT | - CONTROL POWER TRANSFORMER |
| F | - FUSE |
| HAR | - HPU ALARM RELAY |
| HHTR | - HPU HIGH TEMP RELAY |
| HLLR | - HPU LOW/LOW LEVEL RELAY |
| HLLR | - HPU LOW LEVEL RELAY |
| HLL/TD | - HPU LOW/LOW LEVEL TIME DELAY |
| HLP/PSR | - HPU LOW PRESSURE TIME DELAY |
| HLP/ST | - HPU LOW PRESSURE SHUTDOWN RELAY |
| HM | - HOURMETER |
| HPAR | - HPU POWER AVAILABLE RELAY |
| MC | - PUMP MOTOR CONTACTOR |
| DL | - OVERLOAD |
| PSR | - PUMP START RELAY |
| ST | - STARTER |
| TH | - THERMOSTAT |

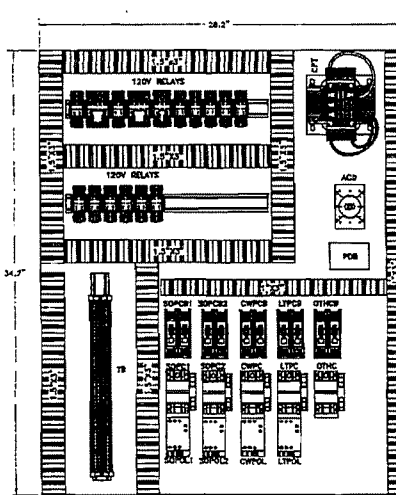
| | | |
|--|--|--|
| | FALL RIVER RURAL CORP CHESTER HYDRO ELECTRIC PROJECT HYDRAULIC PUMP CONTROL PANEL SCHEMATIC | REV BY: _____ DATE: _____ |
| | BAY ELECTRIC, INC. 20410 MARITIME LAKE REDDING, CA 96001 TEL: (530) 221-1334 FAX: (530) 221-5488 | DWG No.: 08PD107-HPC2 CMGN 3/8/2008 |



FRONT LAYOUT

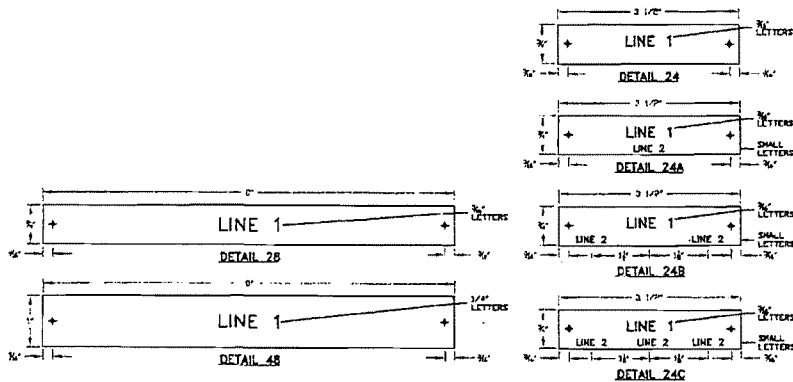


SIDE LAYOUT




BACKPAN LAYOUT

| NAMEPLATES | | |
|------------|---------------------------------|-----------------------------|
| LINE 1 | LINE 2 | DETAIL |
| 1 | OIL SUPPLY SYSTEM CONTROL PANEL | 48 |
| 2 | AC SUPPLY OIL PUMPS | 26 |
| 3 | PUMP 1 ON | 24 |
| 4 | PUMP 2 ON | 24 |
| 5 | PUMP 1 MODE | RUN-OFF-AUTO 24C |
| 6 | PUMP 2 MODE | RUN-OFF-AUTO 24C |
| 7 | PUMP LEAD SELECT | LEAD 1-LEAD 2 24B |
| 8 | COOLING WATER PUMP ON | 24 |
| 9 | LEAKAGE TANK PUMP ON | 24 |
| 10 | COOLING WATER PUMP MODE | ON-OFF-AUTO 24C |
| 11 | LEAKAGE TANK PUMP MODE | RUN-OFF-AUTO 24C |
| 12 | OIL TANK HEATER ON | 24 |
| 13 | OIL TANK HEATER MODE | RUN-OFF-AUTO 24C |
| 14 | TANK A TEMPERATURE | 24 |
| 15 | TANK B TEMPERATURE | 24 |
| 16 | OIL SUPPLY TANK TEMP | 24 |
| 17 | TANK A HIGH TEMP | 24 |
| 18 | TANK B HIGH TEMP | 24 |
| 19 | SUPPLY TANK HIGH TEMP | 24 |
| 20 | TANK A LEVEL | HIGH-HIGH - LOW-LOW 24B |
| 21 | TANK B LEVEL | HIGH-HIGH - NOT MINIMUM 24B |
| 22 | SUPPLY TANK LEVEL | HIGH-HIGH - LOW-LOW 24B |
| 23 | LEAKAGE TANK LEVEL | HIGH-HIGH 24A |
| 24 | OIL SUPPLY MAIN VALVE | NOT OPEN 24A |
| 25 | RUNNER HUB MAIN VALVE | NOT OPEN 24A |
| 26 | COOLING WATER | LOW PRESSURE 24A |
| 27 | OIL FILTER DIFF. PRES. | HIGH 24 |
| 28 | RESET | |
| 29 | | |
| 30 | AC DISCONNECT | 24C |



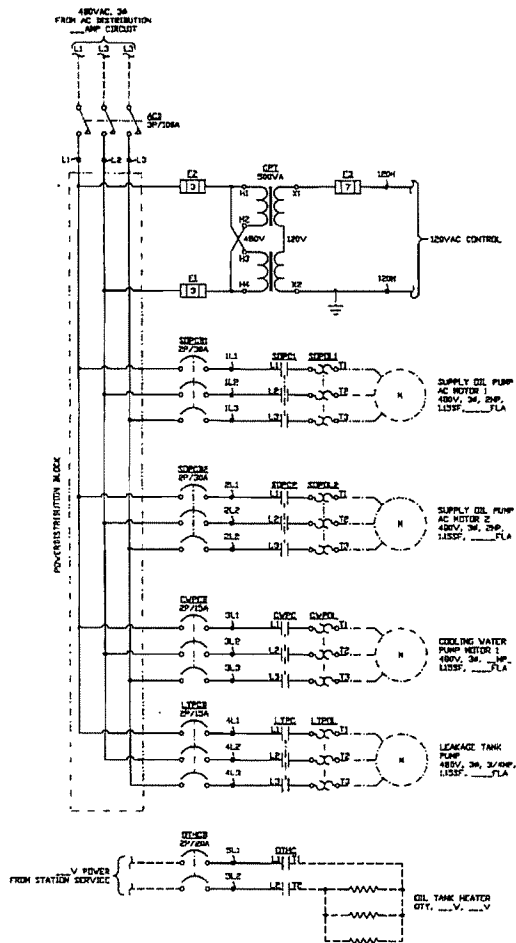
| DEVICE LEGEND | |
|---------------|--------------------------------------|
| ACD | - AC DISCONNECT |
| CPT | - CONTROL POWER TRANSFORMER |
| CVPC | - COOLING WATER PUMP CONTACTOR |
| CVPCB | - COOLING WATER PUMP CIRCUIT BREAKER |
| CVPOL | - COOLING WATER PUMP OVERLOAD RELAY |
| DCD | - DC DISCONNECT |
| DCPC | - DC OIL PUMP CONTACTOR |
| F | - FUSE |
| FD | - FUSE DISCONNECT |
| LTPC | - LEAKAGE TANK PUMP CONTACTOR |
| LTPCB | - LEAKAGE TANK PUMP CIRCUIT BREAKER |
| LTPOL | - LEAKAGE TANK PUMP OVERLOAD RELAY |
| OTHC | - OIL TANK HEATER CONTACTOR |
| OTHCB | - OIL TANK HEATER CIRCUIT BREAKER |
| PDB | - POWER DISTRIBUTION BLOCK |
| SOPC | - SUPPLY OIL PUMP CONTACTOR |
| SOPCB | - SUPPLY OIL PUMP CIRCUIT BREAKER |
| SOPOL | - SUPPLY OIL PUMP OVERLOAD RELAY |


FALL RIVER RURAL CORP
 CHESTER HYDRO ELECTRIC PROJECT
 OIL SUPPLY SYSTEM CONTROL PANEL
 LAYOUT/DIMENSIONAL DRAWING

BAT ELECTRIC, INC.
 20410 MARTINEZ LANE
 REDDING, CA 96001
 TEL: (530) 221-1338
 FAX: (530) 221-1496

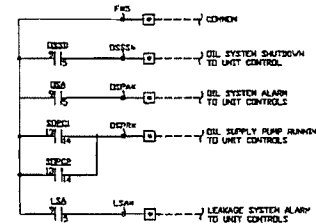
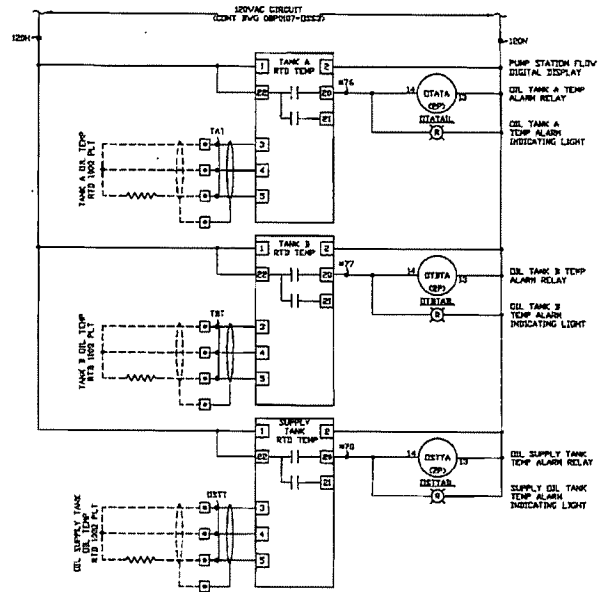
DWG No.: 08P0107-05S1
 ENGR: BLANKENBOPF
 3073: PT
 DATE: 8-21-09

| REV | BY | DATE |
|-----|----|------|
| | | |
| | | |
| | | |



| DEVICE LEGEND | |
|---------------|--------------------------------------|
| ADD | - AC DISCONNECT |
| OPT | - CONTROL POWER TRANSFORMER |
| CVPC | - COOLING WATER PUMP CONTACTOR |
| CVPCB | - COOLING WATER PUMP CIRCUIT BREAKER |
| CVPOL | - COOLING WATER PUMP OVERLOAD RELAY |
| F | - FUSE |
| LTPC | - LEAKAGE TANK PUMP CONTACTOR |
| LTPCB | - LEAKAGE TANK PUMP CIRCUIT BREAKER |
| LTPOL | - LEAKAGE TANK PUMP OVERLOAD RELAY |
| M | - MOTOR |
| OTHC | - OIL TANK HEATER CONTACTOR |
| OTHCB | - OIL TANK HEATER CIRCUIT BREAKER |
| SOPC | - SUPPLY OIL PUMP CONTACTOR |
| SOPCB | - SUPPLY OIL PUMP CIRCUIT BREAKER |
| SOPOL | - SUPPLY OIL PUMP OVERLOAD RELAY |

| | | |
|--|--|---|
| | FALL RIVER RURAL CORP CHESTER HYDRO ELECTRIC PROJECT OIL SUPPLY SYSTEM CONTROL PANEL MOTOR STARTER SCHEMATIC DIAGRAM | REV. BY DATE |
| | BAT ELECTRIC, INC. 20410 MARTINEZ LANE REDDING, CA 96002 TEL: (530) 221-1828 FAX: (530) 221-1898 | DWG No.: OBP0107-OSS2 ENGR: J.BATD888 DRT: PT |



| DEVICE LEGEND | |
|---------------|---|
| LSA | - LEAKAGE SYSTEM ALARM RELAY |
| OISA | - OIL SYSTEM ALARM RELAY |
| OISSD | - OIL SYSTEM SHUTDOWN RELAY |
| DTATA | - TANK A TEMP ALARM RELAY |
| DTATAIL | - TANK A TEMP ALARM INDICATING LIGHT |
| DTBTA | - TANK B TEMP ALARM RELAY |
| DTBTAAIL | - TANK B TEMP ALARM INDICATING LIGHT |
| DSTTA | - OIL SUPPLY TANK TEMP ALARM RELAY |
| DSTTAAIL | - OIL SUPPLY TANK TEMP ALARM INDICATING LIGHT |
| SDPC | - SUPPLY OIL PUMP CONTACTOR |

| | | |
|--|---|--|
| | FALL RIVER RURAL CORP CHESTER HYDRO ELECTRIC PROJECT OIL SUPPLY SYSTEM CONTROL PANEL 120VAC/125VDC SCHEMATIC DIAGRAM | REV BY DATE |
| | BAT ELECTRIC, INC. 20410 MARTINEZ LANE REDWOOD, CA 94062 TEL: (530) 221-1159 FAX: (530) 221-1088 | DWG No.: 08P0107-05S4 CHECK: JBATDOW DATE: 8-11-09 |

148711



FALL RIVER RURAL ELECTRIC COOPERATIVE, INC.
1150 NORTH 3400 EAST • ASHTON, ID 83420-5624
(208) 652-7431

BANK OF IDAHO Check Nbr: 148711
399 N. CAPITAL AVE.
IDAHO FALLS, IDAHO 83402
92-367/1241

GENERAL AND OPERATING ACCOUNT

| Vendor | Check Nbr | Check Date | Check Amount |
|--------|-----------|------------|--------------|
| 3066 | 148711 | 10/04/19 | \$1,000.00 |

Pay ONE THOUSAND, ZERO DOLLARS AND 00/100 CENTS

To The
Order Of PACIFICORP
825 NE MULTNOMAH
PORTLAND OR 97232

VOID AFTER 90 DAYS

Bryan Case
Paul Barnes



THIS DOCUMENT CONTAINS HEAT SENSITIVE INK. TOUCH OR PRESS HERE. RED IMAGE DISAPPEARS WITH HEAT.

⑈ 148711 ⑆ ⑆ 24103676 ⑆ 4 1037946 ⑆

3066
FALL RIVER RURAL ELECTRIC COOPERATIVE, INC. GENERAL & OPERATING ACCOUNT

Please Detach and Retain Statement

Check Nbr: 148711
Check Date: 10/04/19

We herewith hand you our check in settlement of items listed below.

| Invoice Nbr | Description | Invoice Date | Ref Nbr | Amount |
|-------------|---------------------------------|--------------|---------|----------|
| ST100419 | INTERCONNECTION AGREE F/CHESTER | 10/04/19 | | 1,000.00 |

From: [Dave Peterson](#)
To: [Engle, Ty](#)
Cc: [Transmission Contracts](#); [Bryan Case](#); [Greg Adams](#)
Subject: RE: Q1182: – Fall River Rural Electric Cooperative, Inc. / QF System Impact Study Agreement
Date: Tuesday, November 12, 2019 4:20:18 PM
Attachments: [image001.png](#)
[191108_Q1182_QFSGI_SISA.pdf](#)
[Plant_one_line.pdf](#)
[Q1182_Tech_Data_Checklist.xlsx](#)

Dear Mr. Engle:

Attached is the signed agreement, copy of the check for the deposit, the checklist and one line. I will put the check for the deposit in the mail to you tomorrow.

Thank you,

Dave Peterson
Manager of Engineering
Fall River Electric Cooperative
(208) 652-7050 Direct Office
(208) 709-4870 Cell



From: Engle, Ty <Ty.Engle@pacificorp.com>
Sent: Friday, November 8, 2019 12:47 PM
To: Dave Peterson <Dave.Peterson@fallriverelectric.com>
Cc: _Transmission Contracts <TransmissionContracts@PacifiCorp.com>
Subject: Q1182: – Fall River Rural Electric Cooperative, Inc. / QF System Impact Study Agreement

Dear Mr. Peterson:

Attached is a QF System Impact Study Agreement for Fall River Rural Electric Cooperative, Inc. (“Interconnection Customer”).

Please review the attached Technical Data Checklist completed to date for your project. This document identifies technical data that may still be outstanding and required prior to entering into the requested study. Please also provide a requested commercial operations date that was not listed on the original application.

Interconnection Customer shall **sign and email the agreement to PacifiCorp with a deposit in the amount of the estimated \$10,000** cost to perform the study, no later than fifteen (15) Business Days (or by December 4, 2019).

PacifiCorp will complete the month, day, and year sections on the first page of the

agreement.

Sincerely,

Ty Engle
Project Manager
PacifiCorp Generation Interconnection
503.813.6419
825 NE Multnomah St, Suite 1600
Portland, OR 97232

System Impact Study Agreement

THIS AGREEMENT is made and entered into this 22nd day of November, 2019 by and between Fall River Rural Electric Cooperative, Inc (Q1182), a cooperative corporation organized and existing under the laws of the State of Idaho, ("Interconnection Customer,") and PacifiCorp, a Corporation existing under the laws of the State of Oregon, ("Transmission Provider"). Interconnection Customer and Transmission Provider each may be referred to as a "Party," or collectively as the "Parties."

RECITALS

WHEREAS, the Interconnection Customer is proposing to develop a Small Generating Facility or generating capacity addition to an existing Small Generating Facility consistent with the Interconnection Request completed by the Interconnection Customer on October 18, 2019; and

WHEREAS, the Interconnection Customer desires to interconnect the Small Generating Facility with the Transmission Provider's Transmission System;

WHEREAS, the Interconnection Customer requested that the Transmission Provider forego an initial Feasibility Study; and

WHEREAS, the Interconnection Customer has requested the Transmission Provider to perform a system impact study(s) to assess the impact of interconnecting the Small Generating Facility with the Transmission Provider's Transmission System, and of any Affected Systems;

NOW, THEREFORE, in consideration of and subject to the mutual covenants contained herein the Parties agreed as follows:

- 1.0 When used in this Agreement, with initial capitalization, the terms specified shall have the meanings indicated or the meanings specified in the standard Small Generator Interconnection Procedures.
- 2.0 The Interconnection Customer elects and the Transmission Provider shall cause to be performed a system impact study(s) consistent with the standard Small Generator Interconnection Procedures in accordance with the Open Access Transmission Tariff..
- 3.0 The scope of a system impact study shall be subject to the assumptions set forth in Attachment A to this Agreement.
- 4.0 A system impact study will be based upon the results of the feasibility study and the technical information provided by Interconnection Customer in the Interconnection Request. The Transmission Provider reserves the right to request additional technical information from the Interconnection Customer as may reasonably become necessary consistent with Good Utility Practice during the course of the system impact study. If the

Interconnection Customer modifies its designated Point of Interconnection, Interconnection Request, or the technical information provided therein is modified, the time to complete the system impact study may be extended.

- 5.0 A system impact study shall consist of a short circuit analysis, a stability analysis, a power flow analysis, voltage drop and flicker studies, protection and set point coordination studies, and grounding reviews, as necessary. A system impact study shall state the assumptions upon which it is based, state the results of the analyses, and provide the requirement or potential impediments to providing the requested interconnection service, including a preliminary indication of the cost and length of time that would be necessary to correct any problems identified in those analyses and implement the interconnection. A system impact study shall provide a list of facilities that are required as a result of the Interconnection Request and nonbinding good faith estimates of cost responsibility and time to construct.
- 6.0 A distribution system impact study shall incorporate a distribution load flow study, an analysis of equipment interrupting ratings, protection coordination study, voltage drop and flicker studies, protection and set point coordination studies, grounding reviews, and the impact on electric system operation, as necessary.
- 7.0 Affected Systems may participate in the preparation of a system impact study, with a division of costs among such entities as they may agree. All Affected Systems shall be afforded an opportunity to review and comment upon a system impact study that covers potential adverse system impacts on their electric systems, and the Transmission Provider has 20 additional Business Days to complete a system impact study requiring review by Affected Systems.
- 8.0 If the Transmission Provider uses a queuing procedure for sorting or prioritizing projects and their associated cost responsibilities for any required Network Upgrades, the system impact study shall consider all generating facilities (and with respect to paragraph 8.3 below, any identified Upgrades associated with such higher queued interconnection) that, on the date the system impact study is commenced –
 - 8.1 Are directly interconnected with the Transmission Provider's electric system; or
 - 8.2 Are interconnected with Affected Systems and may have an impact on the proposed interconnection; and
 - 8.3 Have a pending higher queued Interconnection Request to interconnect with the Transmission Provider's electric system.
- 9.0 A distribution system impact study, if required, shall be completed and the results transmitted to the Interconnection Customer within 30 Business Days after this Agreement is signed by the Parties. A transmission system impact study, if required, shall be completed and the results transmitted to the Interconnection Customer within 45 Business Days after this Agreement is signed by the Parties, or in accordance with the

Transmission Provider's queuing procedures.

- 10.0 A deposit of the equivalent of the good faith estimated cost of a distribution system impact study and the one half the good faith estimated cost of a transmission system impact study may be required from the Interconnection Customer.
- 11.0 Any study fees shall be based on the Transmission Provider's actual costs and will be invoiced to the Interconnection Customer after the study is completed and delivered and will include a summary of professional time.
- 12.0 The Interconnection Customer must pay any study costs that exceed the deposit without interest within 30 calendar days on receipt of the invoice or resolution of any dispute. If the deposit exceeds the invoiced fees, the Transmission Provider shall refund such excess within 30 calendar days of the invoice without interest.
- 13.0 Governing Law, Regulatory Authority, and Rules the validity, interpretation and enforcement of this Agreement and each of its provisions shall be governed by the laws of the state of Idaho (where the Point of Interconnection is located), without regard to its conflicts of law principles. This Agreement is subject to all Applicable Laws and Regulations. Each Party expressly reserves the right to seek changes in, appeal, or otherwise contest any laws, orders, or regulations of a Governmental Authority.

14.0 Amendment

The Parties may amend this Agreement by a written instrument duly executed by both Parties.

15.0 No Third-Party Beneficiaries

This Agreement is not intended to and does not create rights, remedies, or benefits of any character whatsoever in favor of any persons, corporations, associations, or entities other than the Parties, and the obligations herein assumed are solely for the use and benefit of the Parties, their successors in interest and where permitted, their assigns.

16.0 Waiver

16.1 The failure of a Party to this Agreement to insist, on any occasion, upon strict performance of any provision of this Agreement will not be considered a waiver of any obligation, right, or duty of, or imposed upon, such Party.

16.2 Any waiver at any time by either Party of its rights with respect to this Agreement shall not be deemed a continuing waiver or a waiver with respect to any other failure to comply with any other obligation, right, duty of this Agreement. Termination or default of this Agreement for any reason by Interconnection Customer shall not constitute a waiver of the Interconnection Customer's legal

rights to obtain an interconnection from the Transmission Provider. Any waiver of this Agreement shall, if requested, be provided in writing.

16.3

17.0 Multiple Counterparts

This Agreement may be executed in two or more counterparts, each of which is deemed an original but all constitute one and the same instrument.

18.0 No Partnership

This Agreement shall not be interpreted or construed to create an association, joint venture, agency relationship, or partnership between the Parties or to impose any partnership obligation or partnership liability upon either Party. Neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

19.0 Severability

If any provision or portion of this Agreement shall for any reason be held or adjudged to be invalid or illegal or unenforceable by any court of competent jurisdiction or other Governmental Authority, (1) such portion or provision shall be deemed separate and independent, (2) the Parties shall negotiate in good faith to restore insofar as practicable the benefits to each Party that were affected by such ruling, and (3) the remainder of this Agreement shall remain in full force and effect.

20.0

Subcontractors

Nothing in this Agreement shall prevent a Party from utilizing the services of any subcontractor as it deems appropriate to perform its obligations under this Agreement; provided, however, that each Party shall require its subcontractors to comply with all applicable terms and conditions of this Agreement in providing such services and each Party shall remain primarily liable to the other Party for the performance of such subcontractor.

20.1 The creation of any subcontract relationship shall not relieve the hiring Party of any of its obligations under this Agreement. The hiring Party shall be fully responsible to the other Party for the acts or omissions of any subcontractor the hiring Party hires as if no subcontract had been made; provided, however, that in no event shall the Transmission Provider be liable for the actions or inactions of the Interconnection Customer or its subcontractors with respect to obligations of the Interconnection Customer under this Agreement. Any applicable obligation imposed by this Agreement

upon the hiring Party shall be equally binding upon, and shall be construed as having application to, any subcontractor of such Party.

20.2 The obligations under this article will not be limited in any way by any limitation of subcontractor's insurance.

21.0 Reservation of Rights

The Transmission Provider shall have the right to make a unilateral filing with FERC to modify this Agreement with respect to any rates, terms and conditions, charges, classifications of service, rule or regulation under section 205 or any other applicable provision of the Federal Power Act and FERC's rules and regulations thereunder, and the Interconnection Customer shall have the right to make a unilateral filing with FERC to modify this Agreement under any applicable provision of the Federal Power Act and FERC's rules and regulations; provided that each Party shall have the right to protest such filing by the other Party and to participate fully in any proceeding before the FERC in which such modification may be considered. Nothing in this Agreement shall limit the rights of the Parties or of FERC under sections 205 and 206 of the Federal Power Act and FERC's rules and regulations, except to the extent that the Parties otherwise agree as provided herein.

IN WITNESS THEREOF, the Parties have caused this Agreement to be duly executed by their duly authorized officers or agents on the day and year first above written.

PacifiCorp

Kristof Bremer 2019.11.22
08:57:48 -08'00'
Signed

Kris Bremer
Name (Printed):

Director, Generation Interconnection
Title:

11/22/19
Date:

Fall River Rural Electric Cooperative, Inc

David H. Peterson
Signed

DAVID H. PETERSON
Name (Printed):

MANAGER OF ENGINEERING
Title:

11/12/19
Date:

**Attachment A to
System Impact Study Agreement**

Assumptions Used in Conducting the System Impact Study

As stated in the recitals to this Agreement, the Interconnection Customer requested that the Transmission Provider forego an initial feasibility study. Accordingly, and notwithstanding what is otherwise stated in Section 4 of the Agreement, the system impact study shall be based on the information provided to date by Interconnection Customer, subject to any modifications in accordance with PacifiCorp's Small Generator Interconnection Procedures, and the following assumptions:

1) Designation of Point of Interconnection and configuration to be studied.

- Circuit STA13, St Anthony #13, out of St Anthony substation at 12.5 kV (at approximately 44.0120481090°N, 111.57622449°W)

2) Designation of alternative Points of Interconnection and configuration.

- None

Items 1) and 2) have been provided and/or confirmed by the Interconnection Customer. Other assumptions (listed below) have been provided and/or confirmed by the Interconnection Customer and the Transmission Provider.

- Transmission Provider: Currently operational 2.4 MW synchronous hydro generator, will be a QF
- Interconnection Customer: FALL RIVER RURAL ELECTRIC COOPERATIVE, INC.



*P.O. Box 2757
Portland, OR 97208-2757*

*825 NE Multnomah St., Suite 550
Portland, Oregon 97232*

November 25, 2019

Q1182: Fall River Rural Electric Cooperative, Inc. – Chester Hydro / Notice of Delay of System Impact Study Report Provision

Dear Mr. Peterson:

Due to a significant number of Interconnection Requests proposing to interconnect in the same geographical area of PacifiCorp's electrical system as the Interconnection Request submitted by Fall River Rural Electric Cooperative, Inc. ("Interconnection Customer"), PacifiCorp will be unable to provide the Interconnection Customer's System Impact Study ("Study") within the timelines outlined in PacifiCorp's Small Generation Interconnection Procedures.

If you have any questions, please contact me at (503) 813-6496.

Sincerely,

Kristopher Bremer
Director, Generation Interconnection
PacifiCorp

Form 556

Certification of Qualifying Facility (QF) Status for a Small Power
Production or Cogeneration Facility


General

Questions about completing this form should be sent to Form556@ferc.gov. Information about the Commission's QF program, answers to frequently asked questions about QF requirements or completing this form, and contact information for QF program staff are available at the Commission's QF website, www.ferc.gov/QF. The Commission's QF website also provides links to the Commission's QF regulations (18 C.F.R. § 131.80 and Part 292), as well as other statutes and orders pertaining to the Commission's QF program.

Who Must File

Any applicant seeking QF status or recertification of QF status for a generating facility with a net power production capacity (as determined in lines 7a through 7g below) greater than 1000 kW must file a self-certification or an application for Commission certification of QF status, which includes a properly completed Form 556. Any applicant seeking QF status for a generating facility with a net power production capacity 1000 kW or less is exempt from the certification requirement, and is therefore not required to complete or file a Form 556. See 18 C.F.R. § 292.203.

How to Complete the Form 556

This form is intended to be completed by responding to the items in the order they are presented, according to the instructions given. If you need to back-track, you may need to clear certain responses before you will be allowed to change other responses made previously in the form. If you experience problems, click on the nearest help button () for assistance, or contact Commission staff at Form556@ferc.gov.

Certain lines in this form will be automatically calculated based on responses to previous lines, with the relevant formulas shown. You must respond to all of the previous lines within a section before the results of an automatically calculated field will be displayed. If you disagree with the results of any automatic calculation on this form, contact Commission staff at Form556@ferc.gov to discuss the discrepancy before filing.

You must complete all lines in this form unless instructed otherwise. Do not alter this form or save this form in a different format. Incomplete or altered forms, or forms saved in formats other than PDF, will be rejected.

How to File a Completed Form 556

Applicants are required to file their Form 556 electronically through the Commission's eFiling website (see instructions on page 2). By filing electronically, you will reduce your filing burden, save paper resources, save postage or courier charges, help keep Commission expenses to a minimum, and receive a much faster confirmation (via an email containing the docket number assigned to your facility) that the Commission has received your filing.

If you are simultaneously filing both a waiver request and a Form 556 as part of an application for Commission certification, see the "Waiver Requests" section on page 3 for more information on how to file.

Paperwork Reduction Act Notice

This form is approved by the Office of Management and Budget (OMB Control No. 1902-0075, expiration 05/31/2013). Compliance with the information requirements established by the FERC Form No. 556 is required to obtain or maintain status as a QF. See 18 C.F.R. § 131.80 and Part 292. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. The estimated burden for completing the FERC Form No. 556, including gathering and reporting information, is as follows: 3 hours for self-certification of a small power production facility, 8 hours for self-certifications of a cogeneration facility, 6 hours for an application for Commission certification of a small power production facility, and 50 hours for an application for Commission certification of a cogeneration facility. Send comments regarding this burden estimate or any aspect of this collection of information, including suggestions for reducing this burden, to the following: Information Clearance Officer, Office of the Executive Director (ED-32), Federal Energy Regulatory Commission, 888 First Street N.E., Washington, DC 20426; and Desk Officer for FERC, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503 (oir_submission@omb.eop.gov). Include the Control No. 1902-0075 in any correspondence.

Electronic Filing (eFiling)

To electronically file your Form 556, visit the Commission's QF website at www.ferc.gov/QF and click the eFiling link.

If you are eFiling your first document, you will need to register with your name, email address, mailing address, and phone number. If you are registering on behalf of an employer, then you will also need to provide the employer name, alternate contact name, alternate contact phone number and and alternate contact email.

Once you are registered, log in to eFiling with your registered email address and the password that you created at registration. Follow the instructions. When prompted, select one of the following QF-related filing types, as appropriate, from the Electric or General filing category.

| Filing category | Filing Type as listed in eFiling | Description |
|-----------------|---|--|
| Electric | (Fee) Application for Commission Cert. as Cogeneration QF | Use to submit an application for Commission certification or Commission recertification of a cogeneration facility as a QF. |
| | (Fee) Application for Commission Cert. as Small Power QF | Use to submit an application for Commission certification or Commission recertification of a small power production facility as a QF. |
| | Self-Certification Notice (QF, EG, FC) | Use to submit a notice of self-certification of your facility (cogeneration or small power production) as a QF. |
| | Self-Recertification of Qualifying Facility (QF) | Use to submit a notice of self-recertification of your facility (cogeneration or small power production) as a QF. |
| | Supplemental Information or Request | Use to correct or supplement a Form 556 that was submitted with errors or omissions, or for which Commission staff has requested additional information. Do <i>not</i> use this filing type to report new changes to a facility or its ownership; rather, use a self-recertification or Commission recertification to report such changes. |
| General | (Fee) Petition for Declaratory Order (not under FPA Part 1) | Use to submit a petition for declaratory order granting a waiver of Commission QF regulations pursuant to 18 C.F.R. §§ 292.204(a) (3) and/or 292.205(c). A Form 556 is not required for a petition for declaratory order unless Commission recertification is being requested as part of the petition. |

You will be prompted to submit your filing fee, if applicable, during the electronic submission process. Filing fees can be paid via electronic bank account debit or credit card.

During the eFiling process, you will be prompted to select your file(s) for upload from your computer.

Filing Fee

No filing fee is required if you are submitting a self-certification or self-recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(a).

A filing fee is required if you are filing either of the following:

- (1) an application for Commission certification or recertification of your facility as a QF pursuant to 18 C.F.R. § 292.207(b), or
- (2) a petition for declaratory order granting waiver pursuant to 18 C.F.R. §§ 292.204(a)(3) and/or 292.205(c).

The current fees for applications for Commission certifications and petitions for declaratory order can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Fee Schedule link.

You will be prompted to submit your filing fee, if applicable, during the electronic filing process described on page 2.

Required Notice to Utilities and State Regulatory Authorities

Pursuant to 18 C.F.R. § 292.207(a)(ii), you must provide a copy of your self-certification or request for Commission certification to the utilities with which the facility will interconnect and/or transact, as well as to the State regulatory authorities of the states in which your facility and those utilities reside. Links to information about the regulatory authorities in various states can be found by visiting the Commission's QF website at www.ferc.gov/QF and clicking the Notice Requirements link.

What to Expect From the Commission After You File

An applicant filing a Form 556 electronically will receive an email message acknowledging receipt of the filing and showing the docket number assigned to the filing. Such email is typically sent within one business day, but may be delayed pending confirmation by the Secretary of the Commission of the contents of the filing.

An applicant submitting a self-certification of QF status should expect to receive no documents from the Commission, other than the electronic acknowledgement of receipt described above. Consistent with its name, a self-certification is a certification *by the applicant itself* that the facility meets the relevant requirements for QF status, and does not involve a determination by the Commission as to the status of the facility. An acknowledgement of receipt of a self-certification, in particular, does not represent a determination by the Commission with regard to the QF status of the facility. An applicant self-certifying may, however, receive a rejection, revocation or deficiency letter if its application is found, during periodic compliance reviews, not to comply with the relevant requirements.

An applicant submitting a request for Commission certification will receive an order either granting or denying certification of QF status, or a letter requesting additional information or rejecting the application. Pursuant to 18 C.F.R. § 292.207(b)(3), the Commission must act on an application for Commission certification within 90 days of the later of the filing date of the application or the filing date of a supplement, amendment or other change to the application.

Waiver Requests

18 C.F.R. § 292.204(a)(3) allows an applicant to request a waiver to modify the method of calculation pursuant to 18 C.F.R. § 292.204(a)(2) to determine if two facilities are considered to be located at the same site, for good cause. 18 C.F.R. § 292.205(c) allows an applicant to request waiver of the requirements of 18 C.F.R. §§ 292.205(a) and (b) for operating and efficiency upon a showing that the facility will produce significant energy savings. A request for waiver of these requirements must be submitted as a petition for declaratory order, with the appropriate filing fee for a petition for declaratory order. Applicants requesting Commission recertification as part of a request for waiver of one of these requirements should electronically submit their completed Form 556 along with their petition for declaratory order, rather than filing their Form 556 as a separate request for Commission recertification. Only the filing fee for the petition for declaratory order must be paid to cover both the waiver request and the request for recertification *if such requests are made simultaneously*.

18 C.F.R. § 292.203(d)(2) allows an applicant to request a waiver of the Form 556 filing requirements, for good cause. Applicants filing a petition for declaratory order requesting a waiver under 18 C.F.R. § 292.203(d)(2) do not need to complete or submit a Form 556 with their petition.

Geographic Coordinates

If a street address does not exist for your facility, then line 3c of the Form 556 requires you to report your facility's geographic coordinates (latitude and longitude). Geographic coordinates may be obtained from several different sources. You can find links to online services that show latitude and longitude coordinates on online maps by visiting the Commission's QF webpage at www.ferc.gov/QF and clicking the Geographic Coordinates link. You may also be able to obtain your geographic coordinates from a GPS device, Google Earth (available free at <http://earth.google.com>), a property survey, various engineering or construction drawings, a property deed, or a municipal or county map showing property lines.

Filing Privileged Data or Critical Energy Infrastructure Information in a Form 556

The Commission's regulations provide procedures for applicants to either (1) request that any information submitted with a Form 556 be given privileged treatment because the information is exempt from the mandatory public disclosure requirements of the Freedom of Information Act, 5 U.S.C. § 552, and should be withheld from public disclosure; or (2) identify any documents containing critical energy infrastructure information (CEII) as defined in 18 C.F.R. § 388.113 that should not be made public.

If you are seeking privileged treatment or CEII status for any data in your Form 556, then you must follow the procedures in 18 C.F.R. § 388.112. See www.ferc.gov/help/filing-guide/file-ceii.asp for more information.

Among other things (see 18 C.F.R. § 388.112 for other requirements), applicants seeking privileged treatment or CEII status for data submitted in a Form 556 must prepare and file both (1) a complete version of the Form 556 (containing the privileged and/or CEII data), and (2) a public version of the Form 556 (with the privileged and/or CEII data redacted). Applicants preparing and filing these different versions of their Form 556 must indicate below the security designation of this version of their document. If you are *not* seeking privileged treatment or CEII status for any of your Form 556 data, then you should not respond to any of the items on this page.

| |
|--|
| <p>Non-Public: Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines <input type="checkbox"/> indicated below. This non-public version of the applicant's Form 556 contains all data, including the data that is redacted in the (separate) public version of the applicant's Form 556.</p> |
| <p>Public (redacted): Applicant is seeking privileged treatment and/or CEII status for data contained in the Form 556 lines <input checked="" type="checkbox"/> indicated below. This public version of the applicants's Form 556 contains all data <u>except</u> for data from the lines indicated below, which has been redacted.</p> |
| <p>Privileged: Indicate below which lines of your form contain data for which you are seeking privileged treatment</p> <p>The applicant does not seek privileged treatment and has not redacted any portion of this application.</p> |
| <p>Critical Energy Infrastructure Information (CEII): Indicate below which lines of your form contain data for which you are seeking CEII status</p> <p>None .</p> |

The eFiling process described on page 2 will allow you to identify which versions of the electronic documents you submit are public, privileged and/or CEII. The filenames for such documents should begin with "Public", "Priv", or "CEII", as applicable, to clearly indicate the security designation of the file. Both versions of the Form 556 should be unaltered PDF copies of the Form 556, as available for download from www.ferc.gov/QF. To redact data from the public copy of the submittal, simply omit the relevant data from the Form. For numerical fields, leave the redacted fields blank. For text fields, complete as much of the field as possible, and replace the redacted portions of the field with the word "REDACTED" in brackets. Be sure to identify above all fields which contain data for which you are seeking non-public status.

The Commission is not responsible for detecting or correcting filer errors, including those errors related to security designation. If your documents contain sensitive information, make sure they are filed using the proper security designation.

Form 556

Certification of Qualifying Facility (QF) Status for a Small Power Production or Cogeneration Facility

| | | |
|--|--|--|
| 1a Full name of applicant (legal entity on whose behalf qualifying facility status is sought for this facility) Fall River Rural Electric Cooperative, Inc. | | |
| 1b Applicant street address 1150 North 3400 East | | |
| 1c City Ashton | 1d State/province ID | |
| 1e Postal code 83420 | 1f Country (if not United States) | 1g Telephone number (208) 652-7431 |
| 1h Has the instant facility ever previously been certified as a QF? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | | |
| 1i If yes, provide the docket number of the last known QF filing pertaining to this facility: QF <u>10</u> - <u>337</u> - <u>000</u> | | |
| 1j Under which certification process is the applicant making this filing? <input checked="" type="checkbox"/> Notice of self-certification (see note below) <input type="checkbox"/> Application for Commission certification (requires filing fee; see "Filing Fee" section on page 3) Note: a notice of self-certification is a notice by the applicant itself that its facility complies with the requirements for QF status. A notice of self-certification does not establish a proceeding, and the Commission does not review a notice of self-certification to verify compliance. See the "What to Expect From the Commission After You File" section on page 3 for more information. | | |
| 1k What type(s) of QF status is the applicant seeking for its facility? (check all that apply) <input checked="" type="checkbox"/> Qualifying small power production facility status <input type="checkbox"/> Qualifying cogeneration facility status | | |
| 1l What is the purpose and expected effective date(s) of this filing? <input type="checkbox"/> Original certification; facility expected to be installed by _____ and to begin operation on _____ <input type="checkbox"/> Change(s) to a previously certified facility to be effective on _____ (identify type(s) of change(s) below, and describe change(s) in the Miscellaneous section starting on page 19) <input type="checkbox"/> Name change and/or other administrative change(s) <input type="checkbox"/> Change in ownership <input type="checkbox"/> Change(s) affecting plant equipment, fuel use, power production capacity and/or cogeneration thermal output <input checked="" type="checkbox"/> Supplement or correction to a previous filing submitted on <u>3/2/10</u> (describe the supplement or correction in the Miscellaneous section starting on page 19) | | |
| 1m If any of the following three statements is true, check the box(es) that describe your situation and complete the form to the extent possible, explaining any special circumstances in the Miscellaneous section starting on page 19. <input type="checkbox"/> The instant facility complies with the Commission's QF requirements by virtue of a waiver of certain regulations previously granted by the Commission in an order dated _____ (specify any other relevant waiver orders in the Miscellaneous section starting on page 19) <input type="checkbox"/> The instant facility would comply with the Commission's QF requirements if a petition for waiver submitted concurrently with this application is granted <input type="checkbox"/> The instant facility complies with the Commission's regulations, but has special circumstances, such as the employment of unique or innovative technologies not contemplated by the structure of this form, that make the demonstration of compliance via this form difficult or impossible (describe in Misc. section starting on p. 19) | | |

Application Information

| | | | | |
|--------------------------------------|---|--|--|--|
| Contact Information | 2a Name of contact person Bryan L. Case | | 2b Telephone number 208-652-7431 | |
| | 2c Which of the following describes the contact person's relationship to the applicant? (check one) <input type="checkbox"/> Applicant (self) <input checked="" type="checkbox"/> Employee, owner or partner of applicant authorized to represent the applicant <input type="checkbox"/> Employee of a company affiliated with the applicant authorized to represent the applicant on this matter <input type="checkbox"/> Lawyer, consultant, or other representative authorized to represent the applicant on this matter | | | |
| | 2d Company or organization name (if applicant is an individual, check here and skip to line 2e) <input type="checkbox"/> Fall River Rural Electric Cooperative, Inc. | | | |
| | 2e Street address (if same as Applicant, check here and skip to line 3a) <input checked="" type="checkbox"/> | | | |
| | 2f City | | 2g State/province | |
| | 2h Postal code | | 2i Country (if not United States) | |
| Facility Identification and Location | 3a Facility name Chester Diversion Hydroelectric Project, FERC Project No. 11879 | | | |
| | 3b Street address (if a street address does not exist for the facility, check here and skip to line 3c) <input type="checkbox"/> | | | |
| | 3c Geographic coordinates: If you indicated that no street address exists for your facility by checking the box in line 3b, then you must specify the latitude and longitude coordinates of the facility in degrees (to three decimal places). Use the following formula to convert to decimal degrees from degrees, minutes and seconds: decimal degrees = degrees + (minutes/60) + (seconds/3600). See the "Geographic Coordinates" section on page 4 for help. If you provided a street address for your facility in line 3b, then specifying the geographic coordinates below is optional. Longitude <input type="checkbox"/> East (+) <u>111.583</u> degrees Latitude <input checked="" type="checkbox"/> North (+) <u>44.017</u> degrees <input checked="" type="checkbox"/> West (-) | | | |
| | 3d City (if unincorporated, check here and enter nearest city) <input checked="" type="checkbox"/> between Ashton and St. Anthony | | 3e State/province Idaho | |
| | 3f County (or check here for independent city) <input type="checkbox"/> Fremont | | 3g Country (if not United States) | |
| Transacting Utilities | Identify the electric utilities that are contemplated to transact with the facility. | | | |
| | 4a Identify utility interconnecting with the facility Fall River Rural Electric Cooperative, Inc. | | | |
| | 4b Identify utilities providing wheeling service or check here if none <input type="checkbox"/> Bonneville Power Administration | | | |
| | 4c Identify utilities purchasing the useful electric power output or check here if none <input type="checkbox"/> Idaho Power Company (power purchase agreement approval pending) | | | |
| | 4d Identify utilities providing supplementary power, backup power, maintenance power, and/or interruptible power service or check here if none <input type="checkbox"/> Fall River Rural Electric Cooperative, Inc. | | | |

Ownership and Operation

5a Direct ownership as of effective date or operation date: Identify all direct owners of the facility holding at least 10 percent equity interest. For each identified owner, also (1) indicate whether that owner is an electric utility, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or a holding company, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)), and (2) for owners which are electric utilities or holding companies, provide the percentage of equity interest in the facility held by that owner. If no direct owners hold at least 10 percent equity interest in the facility, then provide the required information for the two direct owners with the largest equity interest in the facility.

| Full legal names of direct owners | Electric utility or holding company | If Yes, % equity interest |
|---|---|---------------------------|
| 1) <u>Fall River Rural Electric Cooperative, Inc.</u> | Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> | <u>100</u> % |
| 2) <u>Fremont-Madison Irrigation District</u> | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> | <u>0</u> % |
| 3) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 4) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 5) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 6) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 7) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 8) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 9) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |
| 10) _____ | Yes <input type="checkbox"/> No <input type="checkbox"/> | _____ % |

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

5b Upstream (i.e., indirect) ownership as of effective date or operation date: Identify all upstream (i.e., indirect) owners of the facility that both (1) hold at least 10 percent equity interest in the facility, and (2) are electric utilities, as defined in section 3(22) of the Federal Power Act (16 U.S.C. 796(22)), or holding companies, as defined in section 1262(8) of the Public Utility Holding Company Act of 2005 (42 U.S.C. 16451(8)). Also provide the percentage of equity interest in the facility held by such owners. (Note that, because upstream owners may be subsidiaries of one another, total percent equity interest reported may exceed 100 percent.)

Check here if no such upstream owners exist.

| Full legal names of electric utility or holding company upstream owners | % equity interest |
|---|-------------------|
| 1) _____ | _____ % |
| 2) _____ | _____ % |
| 3) _____ | _____ % |
| 4) _____ | _____ % |
| 5) _____ | _____ % |
| 6) _____ | _____ % |
| 7) _____ | _____ % |
| 8) _____ | _____ % |
| 9) _____ | _____ % |
| 10) _____ | _____ % |

Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed

5c Identify the facility operator

Fall River Rural Electric Cooperative, Inc.

Energy Input

6a Describe the primary energy input: (check one main category and, if applicable, one subcategory)

- | | | |
|--|---|--|
| <input type="checkbox"/> Biomass (specify) | <input checked="" type="checkbox"/> Renewable resources (specify) | <input type="checkbox"/> Geothermal |
| <input type="checkbox"/> Landfill gas | <input checked="" type="checkbox"/> Hydro power - river | <input type="checkbox"/> Fossil fuel (specify) |
| <input type="checkbox"/> Manure digester gas | <input type="checkbox"/> Hydro power - tidal | <input type="checkbox"/> Coal (not waste) |
| <input type="checkbox"/> Municipal solid waste | <input type="checkbox"/> Hydro power - wave | <input type="checkbox"/> Fuel oil/diesel |
| <input type="checkbox"/> Sewage digester gas | <input type="checkbox"/> Solar - photovoltaic | <input type="checkbox"/> Natural gas (not waste) |
| <input type="checkbox"/> Wood | <input type="checkbox"/> Solar - thermal | <input type="checkbox"/> Other fossil fuel (describe on page 19) |
| <input type="checkbox"/> Other biomass (describe on page 19) | <input type="checkbox"/> Wind | |
| <input type="checkbox"/> Waste (specify type below in line 6b) | <input type="checkbox"/> Other renewable resource (describe on page 19) | <input type="checkbox"/> Other (describe on page 19) |

6b If you specified "waste" as the primary energy input in line 6a, indicate the type of waste fuel used: (check one)

- Waste fuel listed in 18 C.F.R. § 292.202(b) (specify one of the following)
- Anthracite culm produced prior to July 23, 1985
 - Anthracite refuse that has an average heat content of 6,000 Btu or less per pound and has an average ash content of 45 percent or more
 - Bituminous coal refuse that has an average heat content of 9,500 Btu per pound or less and has an average ash content of 25 percent or more
 - Top or bottom subbituminous coal produced on Federal lands or on Indian lands that has been determined to be waste by the United States Department of the Interior's Bureau of Land Management (BLM) or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that the applicant shows that the latter coal is an extension of that determined by BLM to be waste
 - Coal refuse produced on Federal lands or on Indian lands that has been determined to be waste by the BLM or that is located on non-Federal or non-Indian lands outside of BLM's jurisdiction, provided that applicant shows that the latter is an extension of that determined by BLM to be waste
 - Lignite produced in association with the production of montan wax and lignite that becomes exposed as a result of such a mining operation
 - Gaseous fuels (except natural gas and synthetic gas from coal) (describe on page 19)
 - Waste natural gas from gas or oil wells (describe on page 19 how the gas meets the requirements of 18 C.F.R. § 2.400 for waste natural gas; include with your filing any materials necessary to demonstrate compliance with 18 C.F.R. § 2.400)
 - Materials that a government agency has certified for disposal by combustion (describe on page 19)
 - Heat from exothermic reactions (describe on page 19)
 - Residual heat (describe on page 19)
 - Used rubber tires
 - Plastic materials
 - Refinery off-gas
 - Petroleum coke
- Other waste energy input that has little or no commercial value and exists in the absence of the qualifying facility industry (describe in the Miscellaneous section starting on page 19; include a discussion of the fuel's lack of commercial value and existence in the absence of the qualifying facility industry)

6c Provide the average energy input, calculated on a calendar year basis, in terms of Btu/h for the following fossil fuel energy inputs, and provide the related percentage of the total average annual energy input to the facility (18 C.F.R. § 292.202(j)). For any oil or natural gas fuel, use lower heating value (18 C.F.R. § 292.202(m)).

| Fuel | Annual average energy input for specified fuel | Percentage of total annual energy input |
|-----------------|--|---|
| Natural gas | Btu/h | % |
| Oil-based fuels | Btu/h | % |
| Coal | Btu/h | % |

Technical Facility Information

Indicate the maximum gross and maximum net electric power production capacity of the facility at the point(s) of delivery by completing the worksheet below. Respond to all items. If any of the parasitic loads and/or losses identified in lines 7b through 7e are negligible, enter zero for those lines.

| | |
|--|------------|
| 7a The maximum gross power production capacity at the terminals of the individual generator(s) under the most favorable anticipated design conditions | 3,600 kW |
| 7b Parasitic station power used at the facility to run equipment which is necessary and integral to the power production process (boiler feed pumps, fans/blowers, office or maintenance buildings directly related to the operation of the power generating facility, etc.). If this facility includes non-power production processes (for instance, power consumed by a cogeneration facility's thermal host), do not include any power consumed by the non-power production activities in your reported parasitic station power. | 250 kW |
| 7c Electrical losses in interconnection transformers | 0 kW |
| 7d Electrical losses in AC/DC conversion equipment, if any | 0 kW |
| 7e Other interconnection losses in power lines or facilities (other than transformers and AC/DC conversion equipment) between the terminals of the generator(s) and the point of interconnection with the utility | 500 kW |
| 7f Total deductions from gross power production capacity = 7b + 7c + 7d + 7e | 750.0 kW |
| 7g Maximum net power production capacity = 7a - 7f | 2,850.0 kW |

7h Description of facility and primary components: Describe the facility and its operation. Identify all boilers, heat recovery steam generators, prime movers (any mechanical equipment driving an electric generator), electrical generators, photovoltaic solar equipment, fuel cell equipment and/or other primary power generation equipment used in the facility. Descriptions of components should include (as applicable) specifications of the nominal capacities for mechanical output, electrical output, or steam generation of the identified equipment. For each piece of equipment identified, clearly indicate how many pieces of that type of equipment are included in the plant, and which components are normally operating or normally in standby mode. Provide a description of how the components operate as a system. Applicants for cogeneration facilities do not need to describe operations of systems that are clearly depicted on and easily understandable from a cogeneration facility's attached mass and heat balance diagram; however, such applicants should provide any necessary description needed to understand the sequential operation of the facility depicted in their mass and heat balance diagram. If additional space is needed, continue in the Miscellaneous section starting on page 19.

Three Kaplan S-type turbines with generators rated at 1200 kw. Output will feed into Fall River's 15 kv system.

Information Required for Small Power Production Facility

If you indicated in line 1k that you are seeking qualifying small power production facility status for your facility, then you must respond to the items on this page. Otherwise, skip page 10.

| Certification of Compliance with Size Limitations | Pursuant to 18 C.F.R. § 292.204(a), the power production capacity of any small power production facility, together with the power production capacity of any other small power production facilities that use the same energy resource, are owned by the same person(s) or its affiliates, and are located at the same site, may not exceed 80 megawatts. To demonstrate compliance with this size limitation, or to demonstrate that your facility is exempt from this size limitation under the Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Pub. L. 101-575, 104 Stat. 2834 (1990) <i>as amended by</i> Pub. L. 102-46, 105 Stat. 249 (1991)), respond to lines 8a through 8e below (as applicable). | | | | | | | | | | | | | | | | |
|---|---|--|---------------------------|--|--|----------|------------|-------|----|----------|------------|-------|----|----------|------------|-------|----|
| | 8a Identify any facilities with electrical generating equipment located within 1 mile of the electrical generating equipment of the instant facility, and for which any of the entities identified in lines 5a or 5b, or their affiliates, holds at least a 5 percent equity interest. Check here if no such facilities exist. <input checked="" type="checkbox"/> | | | | | | | | | | | | | | | | |
| | <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; text-align: center;">Facility location (city or county, state)</th> <th style="width: 20%; text-align: center;">Root docket # (if any)</th> <th style="width: 30%; text-align: center;">Common owner(s)</th> <th style="width: 20%; text-align: center;">Maximum net power production capacity</th> </tr> </thead> <tbody> <tr> <td>1) _____</td> <td>QF - _____</td> <td>_____</td> <td style="text-align: right;">kW</td> </tr> <tr> <td>2) _____</td> <td>QF - _____</td> <td>_____</td> <td style="text-align: right;">kW</td> </tr> <tr> <td>3) _____</td> <td>QF - _____</td> <td>_____</td> <td style="text-align: right;">kW</td> </tr> </tbody> </table> | Facility location (city or county, state) | Root docket # (if any) | Common owner(s) | Maximum net power production capacity | 1) _____ | QF - _____ | _____ | kW | 2) _____ | QF - _____ | _____ | kW | 3) _____ | QF - _____ | _____ | kW |
| | Facility location (city or county, state) | Root docket # (if any) | Common owner(s) | Maximum net power production capacity | | | | | | | | | | | | | |
| | 1) _____ | QF - _____ | _____ | kW | | | | | | | | | | | | | |
| | 2) _____ | QF - _____ | _____ | kW | | | | | | | | | | | | | |
| 3) _____ | QF - _____ | _____ | kW | | | | | | | | | | | | | | |
| <input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed | | | | | | | | | | | | | | | | | |
| 8b The Solar, Wind, Waste, and Geothermal Power Production Incentives Act of 1990 (Incentives Act) provides exemption from the size limitations in 18 C.F.R. § 292.204(a) for certain facilities that were certified prior to 1995. Are you seeking exemption from the size limitations in 18 C.F.R. § 292.204(a) by virtue of the Incentives Act? <input type="checkbox"/> Yes (continue at line 8c below) <input checked="" type="checkbox"/> No (skip lines 8c through 8e) | | | | | | | | | | | | | | | | | |
| 8c Was the original notice of self-certification or application for Commission certification of the facility filed on or before December 31, 1994? Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
| 8d Did construction of the facility commence on or before December 31, 1999? Yes <input type="checkbox"/> No <input type="checkbox"/> | | | | | | | | | | | | | | | | | |
| 8e If you answered No in line 8d, indicate whether reasonable diligence was exercised toward the completion of the facility, taking into account all factors relevant to construction? Yes <input type="checkbox"/> No <input type="checkbox"/> If you answered Yes, provide a brief narrative explanation in the Miscellaneous section starting on page 19 of the construction timeline (in particular, describe why construction started so long after the facility was certified) and the diligence exercised toward completion of the facility. | | | | | | | | | | | | | | | | | |
| Certification of Compliance with Fuel Use Requirements | Pursuant to 18 C.F.R. § 292.204(b), qualifying small power production facilities may use fossil fuels, in minimal amounts, for only the following purposes: ignition; start-up; testing; flame stabilization; control use; alleviation or prevention of unanticipated equipment outages; and alleviation or prevention of emergencies, directly affecting the public health, safety, or welfare, which would result from electric power outages. The amount of fossil fuels used for these purposes may not exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter. | | | | | | | | | | | | | | | | |
| | 9a Certification of compliance with 18 C.F.R. § 292.204(b) with respect to uses of fossil fuel: <input checked="" type="checkbox"/> Applicant certifies that the facility will use fossil fuels <i>exclusively</i> for the purposes listed above. | | | | | | | | | | | | | | | | |
| | 9b Certification of compliance with 18 C.F.R. § 292.204(b) with respect to amount of fossil fuel used annually: <input checked="" type="checkbox"/> Applicant certifies that the amount of fossil fuel used at the facility will not, in aggregate, exceed 25 percent of the total energy input of the facility during the 12-month period beginning with the date the facility first produces electric energy or any calendar year thereafter. | | | | | | | | | | | | | | | | |

Information Required for Cogeneration Facility

If you indicated in line 1k that you are seeking qualifying cogeneration facility status for your facility, then you must respond to the items on pages 11 through 13. Otherwise, skip pages 11 through 13.

| | | |
|----------------------------------|--|---|
| General Cogeneration Information | <p>Pursuant to 18 C.F.R. § 292.202(c), a cogeneration facility produces electric energy and forms of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes, through the sequential use of energy. Pursuant to 18 C.F.R. § 292.202(s), "sequential use" of energy means the following: (1) for a topping-cycle cogeneration facility, the use of reject heat from a power production process in sufficient amounts in a thermal application or process to conform to the requirements of the operating standard contained in 18 C.F.R. § 292.205(a); or (2) for a bottoming-cycle cogeneration facility, the use of at least some reject heat from a thermal application or process for power production.</p> | |
| | <p>10a What type(s) of cogeneration technology does the facility represent? (check all that apply)</p> <p style="text-align: center;"> <input type="checkbox"/> Topping-cycle cogeneration <input type="checkbox"/> Bottoming-cycle cogeneration </p> | |
| | <p>10b To help demonstrate the sequential operation of the cogeneration process, and to support compliance with other requirements such as the operating and efficiency standards, include with your filing a mass and heat balance diagram depicting average annual operating conditions. This diagram must include certain items and meet certain requirements, as described below. You must check next to the description of each requirement below to certify that you have complied with these requirements.</p> | |
| | <p>Check to certify compliance with indicated requirement</p> | <p>Requirement</p> |
| | <input type="checkbox"/> | Diagram must show orientation within system piping and/or ducts of all prime movers, heat recovery steam generators, boilers, electric generators, and condensers (as applicable), as well as any other primary equipment relevant to the cogeneration process. |
| | <input type="checkbox"/> | Any average annual values required to be reported in lines 10b, 12a, 13a, 13b, 13d, 13f, 14a, 15b, 15d and/or 15f must be computed over the anticipated hours of operation. |
| | <input type="checkbox"/> | Diagram must specify all fuel inputs by fuel type and average annual rate in Btu/h. Fuel for supplementary firing should be specified separately and clearly labeled. All specifications of fuel inputs should use lower heating values. |
| | <input type="checkbox"/> | Diagram must specify average gross electric output in kW or MW for each generator. |
| | <input type="checkbox"/> | Diagram must specify average mechanical output (that is, any mechanical energy taken off of the shaft of the prime movers for purposes not directly related to electric power generation) in horsepower, if any. Typically, a cogeneration facility has no mechanical output. |
| | <input type="checkbox"/> | At each point for which working fluid flow conditions are required to be specified (see below), such flow condition data must include mass flow rate (in lb/h or kg/s), temperature (in °F, R, °C or K), absolute pressure (in psia or kPa) and enthalpy (in Btu/lb or kJ/kg). Exception: For systems where the working fluid is <i>liquid only</i> (no vapor at any point in the cycle) and where the type of liquid and specific heat of that liquid are clearly indicated on the diagram or in the Miscellaneous section starting on page 19, only mass flow rate and temperature (not pressure and enthalpy) need be specified. For reference, specific heat at standard conditions for pure liquid water is approximately 1.002 Btu/(lb*R) or 4.195 kJ/(kg*K). |
| <input type="checkbox"/> | Diagram must specify working fluid flow conditions at input to and output from each steam turbine or other expansion turbine or back-pressure turbine. | |
| <input type="checkbox"/> | Diagram must specify working fluid flow conditions at delivery to and return from each thermal application. | |
| <input type="checkbox"/> | Diagram must specify working fluid flow conditions at make-up water inputs. | |

EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities

EPAct 2005 cogeneration facilities: The Energy Policy Act of 2005 (EPAct 2005) established a new section 210(n) of the Public Utility Regulatory Policies Act of 1978 (PURPA), 16 USC 824a-3(n), with additional requirements for any qualifying cogeneration facility that (1) is seeking to sell electric energy pursuant to section 210 of PURPA and (2) was either not a cogeneration facility on August 8, 2005, or had not filed a self-certification or application for Commission certification of QF status on or before February 1, 2006. These requirements were implemented by the Commission in 18 C.F.R. § 292.205(d). Complete the lines below, carefully following the instructions, to demonstrate whether these additional requirements apply to your cogeneration facility and, if so, whether your facility complies with such requirements.

11a Was your facility operating as a qualifying cogeneration facility on or before August 8, 2005? Yes No

11b Was the initial filing seeking certification of your facility (whether a notice of self-certification or an application for Commission certification) filed on or before February 1, 2006? Yes No

If the answer to either line 11a or 11b is Yes, then continue at line 11c below. Otherwise, if the answers to both lines 11a and 11b are No, skip to line 11e below.

11c With respect to the design and operation of the facility, have any changes been implemented on or after February 2, 2006 that affect general plant operation, affect use of thermal output, and/or increase net power production capacity from the plant's capacity on February 1, 2006?

Yes (continue at line 11d below)

No. Your facility is not subject to the requirements of 18 C.F.R. § 292.205(d) at this time. However, it may be subject to these requirements in the future if changes are made to the facility. At such time, the applicant would need to recertify the facility to determine eligibility. Skip lines 11d through 11j.

11d Does the applicant contend that the changes identified in line 11c are not so significant as to make the facility a "new" cogeneration facility that would be subject to the 18 C.F.R. § 292.205(d) cogeneration requirements?

Yes. Provide in the Miscellaneous section starting on page 19 a description of any relevant changes made to the facility (including the purpose of the changes) and a discussion of why the facility should not be considered a "new" cogeneration facility in light of these changes. Skip lines 11e through 11j.

No. Applicant stipulates to the fact that it is a "new" cogeneration facility (for purposes of determining the applicability of the requirements of 18 C.F.R. § 292.205(d)) by virtue of modifications to the facility that were initiated on or after February 2, 2006. Continue below at line 11e.

11e Will electric energy from the facility be sold pursuant to section 210 of PURPA?

Yes. The facility is an EPAct 2005 cogeneration facility. You must demonstrate compliance with 18 C.F.R. § 292.205(d)(2) by continuing at line 11f below.

No. Applicant certifies that energy will *not* be sold pursuant to section 210 of PURPA. Applicant also certifies its understanding that it must recertify its facility in order to determine compliance with the requirements of 18 C.F.R. § 292.205(d) *before* selling energy pursuant to section 210 of PURPA in the future. Skip lines 11f through 11j.

11f Is the net power production capacity of your cogeneration facility, as indicated in line 7g above, less than or equal to 5,000 kW?

Yes, the net power production capacity is less than or equal to 5,000 kW. 18 C.F.R. § 292.205(d)(4) provides a rebuttable presumption that cogeneration facilities of 5,000 kW and smaller capacity comply with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2). Applicant certifies its understanding that, should the power production capacity of the facility increase above 5,000 kW, then the facility must be recertified to (among other things) demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Skip lines 11g through 11j.

No, the net power production capacity is greater than 5,000 kW. Demonstrate compliance with the requirements for fundamental use of the facility's energy output in 18 C.F.R. § 292.205(d)(2) by continuing on the next page at line 11g.

EPAct 2005 Requirements for Fundamental Use of Energy Output from Cogeneration Facilities (continued)

Lines 11g through 11k below guide the applicant through the process of demonstrating compliance with the requirements for "fundamental use" of the facility's energy output. 18 C.F.R. § 292.205(d)(2). Only respond to the lines on this page if the instructions on the previous page direct you to do so. Otherwise, skip this page.

18 C.F.R. § 292.205(d)(2) requires that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility. If you were directed on the previous page to respond to the items on this page, then your facility is an EPAct 2005 cogeneration facility that is subject to this "fundamental use" requirement.

The Commission's regulations provide a two-pronged approach to demonstrating compliance with the requirements for fundamental use of the facility's energy output. First, the Commission has established in 18 C.F.R. § 292.205(d)(3) a "fundamental use test" that can be used to demonstrate compliance with 18 C.F.R. § 292.205(d)(2). Under the fundamental use test, a facility is considered to comply with 18 C.F.R. § 292.205(d)(2) if at least 50 percent of the facility's total annual energy output (including electrical, thermal, chemical and mechanical energy output) is used for industrial, commercial, residential or institutional purposes.

Second, an applicant for a facility that does not pass the fundamental use test may provide a narrative explanation of and support for its contention that the facility nonetheless meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a qualifying facility to its host facility.

Complete lines 11g through 11j below to determine compliance with the fundamental use test in 18 C.F.R. § 292.205(d)(3). Complete lines 11g through 11j *even if you do not intend to rely upon the fundamental use test to demonstrate compliance with 18 C.F.R. § 292.205(d)(2)*.

| | |
|--|-----|
| 11g Amount of electrical, thermal, chemical and mechanical energy output (net of internal generation plant losses and parasitic loads) expected to be used annually for industrial, commercial, residential or institutional purposes and not sold to an electric utility | MWh |
| 11h Total amount of electrical, thermal, chemical and mechanical energy expected to be sold to an electric utility | MWh |
| 11i Percentage of total annual energy output expected to be used for industrial, commercial, residential or institutional purposes and not sold to a utility = 100 * 11g / (11g + 11h) | 0 % |

11j Is the response in line 11i greater than or equal to 50 percent?

Yes. Your facility complies with 18 C.F.R. § 292.205(d)(2) by virtue of passing the fundamental use test provided in 18 C.F.R. § 292.205(d)(3). Applicant certifies its understanding that, if it is to rely upon passing the fundamental use test as a basis for complying with 18 C.F.R. § 292.205(d)(2), then the facility must comply with the fundamental use test both in the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years.

No. Your facility does not pass the fundamental use test. Instead, you must provide in the Miscellaneous section starting on page 19 a narrative explanation of and support for why your facility meets the requirement that the electrical, thermal, chemical and mechanical output of an EPAct 2005 cogeneration facility is used fundamentally for industrial, commercial, residential or institutional purposes and is not intended fundamentally for sale to an electric utility, taking into account technological, efficiency, economic, and variable thermal energy requirements, as well as state laws applicable to sales of electric energy from a QF to its host facility. Applicants providing a narrative explanation of why their facility should be found to comply with 18 C.F.R. § 292.205(d)(2) in spite of non-compliance with the fundamental use test may want to review paragraphs 47 through 61 of Order No. 671 (accessible from the Commission's QF website at www.ferc.gov/QF), which provide discussion of the facts and circumstances that may support their explanation. Applicant should also note that the percentage reported above will establish the standard that that facility must comply with, both for the 12-month period beginning with the date the facility first produces electric energy, and in all subsequent calendar years. See Order No. 671 at paragraph 51. As such, the applicant should make sure that it reports appropriate values on lines 11g and 11h above to serve as the relevant annual standard, taking into account expected variations in production conditions.

Information Required for Topping-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents topping-cycle cogeneration technology, then you must respond to the items on pages 14 and 15. Otherwise, skip pages 14 and 15.

| | | | |
|--|---|---|--|
| Usefulness of Topping-Cycle Thermal Output | <p>The thermal energy output of a topping-cycle cogeneration facility is the net energy made available to an industrial or commercial process or used in a heating or cooling application. Pursuant to sections 292.202(c), (d) and (h) of the Commission's regulations (18 C.F.R. §§ 292.202(c), (d) and (h)), the thermal energy output of a qualifying topping-cycle cogeneration facility must be useful. In connection with this requirement, describe the thermal output of the topping-cycle cogeneration facility by responding to lines 12a and 12b below.</p> | | |
| | <p>12a Identify and describe each thermal host, and specify the annual average rate of thermal output made available to each host for each use. For hosts with multiple uses of thermal output, provide the data for each use <i>in separate rows</i>.</p> | | |
| | | | Average annual rate of thermal output attributable to use (net of heat contained in process return or make-up water) |
| | Name of entity (thermal host) taking thermal output | Thermal host's relationship to facility; Thermal host's use of thermal output | |
| | 1) | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| | 2) | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| | 3) | Select thermal host's relationship to facility | |
| | | Select thermal host's use of thermal output | Btu/h |
| 4) | Select thermal host's relationship to facility | | |
| | Select thermal host's use of thermal output | Btu/h | |
| 5) | Select thermal host's relationship to facility | | |
| | Select thermal host's use of thermal output | Btu/h | |
| 6) | Select thermal host's relationship to facility | | |
| | Select thermal host's use of thermal output | Btu/h | |
| <input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed | | | |
| <p>12b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each use of the thermal output identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's use of thermal output is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific use of thermal output related to the instant facility, then you need only provide a brief description of that use and a reference by date and docket number to the order certifying your facility with the indicated use. Such exemption may not be used if any change creates a material deviation from the previously authorized use.) If additional space is needed, continue in the Miscellaneous section starting on page 19.</p> | | | |



Topping-Cycle Operating and Efficiency Value Calculation

Applicants for facilities representing topping-cycle technology must demonstrate compliance with the topping-cycle operating standard and, if applicable, efficiency standard. Section 292.205(a)(1) of the Commission's regulations (18 C.F.R. § 292.205(a)(1)) establishes the operating standard for topping-cycle cogeneration facilities: the useful thermal energy output must be no less than 5 percent of the total energy output. Section 292.205(a)(2) (18 C.F.R. § 292.205(a)(2)) establishes the efficiency standard for topping-cycle cogeneration facilities for which installation commenced on or after March 13, 1980: the useful power output of the facility plus one-half the useful thermal energy output must (A) be no less than 42.5 percent of the total energy input of natural gas and oil to the facility; and (B) if the useful thermal energy output is less than 15 percent of the total energy output of the facility, be no less than 45 percent of the total energy input of natural gas and oil to the facility. To demonstrate compliance with the topping-cycle operating and/or efficiency standards, or to demonstrate that your facility is exempt from the efficiency standard based on the date that installation commenced, respond to lines 13a through 13l below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 13a through 13l below considering only the energy inputs and outputs attributable to the topping-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion (topping or bottoming) of the cogeneration system.

| | |
|--|---------|
| 13a Indicate the annual average rate of useful thermal energy output made available to the host(s), net of any heat contained in condensate return or make-up water | Btu/h |
| 13b Indicate the annual average rate of net electrical energy output | kW |
| 13c Multiply line 13b by 3,412 to convert from kW to Btu/h | 0 Btu/h |
| 13d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) | hp |
| 13e Multiply line 13d by 2,544 to convert from hp to Btu/h | 0 Btu/h |
| 13f Indicate the annual average rate of energy input from natural gas and oil | Btu/h |
| 13g Topping-cycle operating value = $100 * 13a / (13a + 13c + 13e)$ | 0 % |
| 13h Topping-cycle efficiency value = $100 * (0.5 * 13a + 13c + 13e) / 13f$ | 0 % |
| 13i Compliance with operating standard: Is the operating value shown in line 13g greater than or equal to 5%? <input type="checkbox"/> Yes (complies with operating standard) <input type="checkbox"/> No (does not comply with operating standard) | |
| 13j Did installation of the facility in its current form commence on or after March 13, 1980? <input type="checkbox"/> Yes. Your facility is subject to the efficiency requirements of 18 C.F.R. § 292.205(a)(2). Demonstrate compliance with the efficiency requirement by responding to line 13k or 13l, as applicable, below. <input type="checkbox"/> No. Your facility is exempt from the efficiency standard. Skip lines 13k and 13l. | |
| 13k Compliance with efficiency standard (for low operating value): If the operating value shown in line 13g is less than 15%, then indicate below whether the efficiency value shown in line 13h greater than or equal to 45%: <input type="checkbox"/> Yes (complies with efficiency standard) <input type="checkbox"/> No (does not comply with efficiency standard) | |
| 13l Compliance with efficiency standard (for high operating value): If the operating value shown in line 13g is greater than or equal to 15%, then indicate below whether the efficiency value shown in line 13h is greater than or equal to 42.5%: <input type="checkbox"/> Yes (complies with efficiency standard) <input type="checkbox"/> No (does not comply with efficiency standard) | |

Information Required for Bottoming-Cycle Cogeneration Facility

If you indicated in line 10a that your facility represents bottoming-cycle cogeneration technology, then you must respond to the items on pages 16 and 17. Otherwise, skip pages 16 and 17.



| | | | |
|--|---|--|---|
| Usefulness of Bottoming-Cycle Thermal Output | The thermal energy output of a bottoming-cycle cogeneration facility is the energy related to the process(es) from which at least some of the reject heat is then used for power production. Pursuant to sections 292.202(c) and (e) of the Commission's regulations (18 C.F.R. § 292.202(c) and (e)), the thermal energy output of a qualifying bottoming-cycle cogeneration facility must be useful. In connection with this requirement, describe the process(es) from which at least some of the reject heat is used for power production by responding to lines 14a and 14b below. | | |
| | 14a Identify and describe each thermal host and each bottoming-cycle cogeneration process engaged in by each host. For hosts with multiple bottoming-cycle cogeneration processes, provide the data for each process <i>in separate rows</i> . | | |
| | Name of entity (thermal host) performing the process from which at least some of the reject heat is used for power production | Thermal host's relationship to facility; Thermal host's process type | Has the energy input to the thermal host been augmented for purposes of increasing power production capacity? (if Yes, describe on p. 19) |
| | 1) | Select thermal host's relationship to facility Select thermal host's process type | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | 2) | Select thermal host's relationship to facility Select thermal host's process type | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | 3) | Select thermal host's relationship to facility Select thermal host's process type | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| | <input type="checkbox"/> Check here and continue in the Miscellaneous section starting on page 19 if additional space is needed | | |
| | 14b Demonstration of usefulness of thermal output: At a minimum, provide a brief description of each process identified above. In some cases, this brief description is sufficient to demonstrate usefulness. However, if your facility's process is not common, and/or if the usefulness of such thermal output is not reasonably clear, then you must provide additional details as necessary to demonstrate usefulness. Your application may be rejected and/or additional information may be required if an insufficient showing of usefulness is made. (Exception: If you have previously received a Commission certification approving a specific bottoming-cycle process related to the instant facility, then you need only provide a brief description of that process and a reference by date and docket number to the order certifying your facility with the indicated process. Such exemption may not be used if any material changes to the process have been made.) If additional space is needed, continue in the Miscellaneous section starting on page 19. | | |

Bottoming-Cycle Operating and Efficiency Value Calculation

Applicants for facilities representing bottoming-cycle technology and for which installation commenced on or after March 13, 1990 must demonstrate compliance with the bottoming-cycle efficiency standards. Section 292.205(b) of the Commission's regulations (18 C.F.R. § 292.205(b)) establishes the efficiency standard for bottoming-cycle cogeneration facilities: the useful power output of the facility must be no less than 45 percent of the energy input of natural gas and oil for supplementary firing. To demonstrate compliance with the bottoming-cycle efficiency standard (if applicable), or to demonstrate that your facility is exempt from this standard based on the date that installation of the facility began, respond to lines 15a through 15h below.

If you indicated in line 10a that your facility represents *both* topping-cycle and bottoming-cycle cogeneration technology, then respond to lines 15a through 15h below considering only the energy inputs and outputs attributable to the bottoming-cycle portion of your facility. Your mass and heat balance diagram must make clear which mass and energy flow values and system components are for which portion of the cogeneration system (topping or bottoming).

15a Did installation of the facility in its current form commence on or after March 13, 1980?

Yes. Your facility is subject to the efficiency requirement of 18 C.F.R. § 292.205(b). Demonstrate compliance with the efficiency requirement by responding to lines 15b through 15h below.

No. Your facility is exempt from the efficiency standard. Skip the rest of page 17.

| | |
|---|----|
| 15b Indicate the annual average rate of net electrical energy output | kW |
|---|----|

| | |
|---|---------|
| 15c Multiply line 15b by 3,412 to convert from kW to Btu/h | 0 Btu/h |
|---|---------|

| | |
|---|----|
| 15d Indicate the annual average rate of mechanical energy output taken directly off of the shaft of a prime mover for purposes not directly related to power production (this value is usually zero) | hp |
|---|----|

| | |
|---|---------|
| 15e Multiply line 15d by 2,544 to convert from hp to Btu/h | 0 Btu/h |
|---|---------|

| | |
|---|-------|
| 15f Indicate the annual average rate of supplementary energy input from natural gas or oil | Btu/h |
|---|-------|

| | |
|---|-----|
| 15g Bottoming-cycle efficiency value = $100 * (15c + 15e) / 15f$ | 0 % |
|---|-----|

15h Compliance with efficiency standard: Indicate below whether the efficiency value shown in line 15g is greater than or equal to 45%:

Yes (complies with efficiency standard) No (does not comply with efficiency standard)



Miscellaneous

Use this space to provide any information for which there was not sufficient space in the previous sections of the form to provide. For each such item of information *clearly identify the line number that the information belongs to*. You may also use this space to provide any additional information you believe is relevant to the certification of your facility.

Your response below is not limited to one page. Additional page(s) will automatically be inserted into this form if the length of your response exceeds the space on this page. Use as many pages as you require.

11. The applicant, Fall River Rural Electric Cooperative, submits this self recertification form to supplement the information filed in the initial self certification form on March 2, 2010. The changes since the initial filing are that the facility will interconnect with Fall River Rural Electric Cooperative's distribution system, and will wheel the output over its system and the system of Bonneville Power Administrative to the Goshen Substation in Idaho for delivery and sale to Idaho Power Company. The previous filing described the facility to interconnect and sell its output to PacifiCorp, dba Rocky Mountain Power

5a. Fall River Rural Electric Cooperative is currently the full owner of the facility. After capital expenses are paid, Fremont Madison Irrigation District will become a fifty percent owner, entitled to fifty percent of the profits from the Chester Diversion Project.