

RULES and REGULATIONS for ELECTRIC SERVICE



RULE 14. PARALLEL POWER SOURCES

14.1 GENERAL

- A. To provide for the safety of the BWL's personnel and others, and to assure reliability of Electric Service to all Customers, the BWL has adopted the following requirements for operation of Customer generation in parallel with utility distribution systems.
- B. These requirements include all Customer generating systems under 150 kW AC. Systems 150 kW AC and over will be handled by the BWL on an individual basis and require an interconnection agreement. All units over 20 kW must be three phase units unless specifically exempted by the BWL.
- C. These requirements apply to both existing and proposed installations.

14.2 APPROVALS

- A. The Customer must submit for BWL approval, detailed electrical diagrams and equipment nameplate data, including the interface/protective devices and control systems of the Customer's Power source. Application and Interconnection Standards and Procedures can be obtained by contacting the Customer Projects Department.
- B. The completed installation must meet all local, state, and national codes and is subject to inspection and test by the BWL and local code enforcement authorities before commencement of parallel operation and such installation may be periodically inspected by the BWL as required.
- C. The Customer must obtain approval from the BWL prior to making any revisions to the Customer's generating unit, its control systems, or the interface between the two Power systems after the initial installation.

14.3 CONTROL AND PROTECTION

- A. The Customer's control and protection system must be acceptable to the BWL. The Customer's system must provide for automatic separation from the BWL's distribution system in the event of a short circuit or open circuit on the BWL's distribution system. The Customer's control system must also provide for automatic paralleling with the BWL's system when conditions are proper for parallel operation. Manual paralleling is not permitted without prior approval of the BWL. Over frequency, under frequency, over voltage and under voltage control may be required. The Customer will be liable for damage or injury if any part of the Customer's protective scheme fails to function due to lack of proper installation, maintenance, or Customer negligence.
- B. The Customer is required to install a disconnecting device with a visible break suitable for use as a protective tag location so as to be accessible by BWL personnel or its agents and in close proximity to the billing meter. This device must accept a standard BWL padlock and must be located on the outside of all buildings. In no case, may the Customer tamper with or attempt to bypass the disconnect switch when the BWL has locked it in the open position.

14.4 OPERATION

- A. Should the parallel operation of the Customer's generating source cause interference or affect voltage, frequency or harmonic content of the BWL's system or of another Customer's service, the Customer must discontinue parallel operation until the condition has been corrected.

- B. The Customer will be charged for all costs associated with any alteration of the BWL's equipment installed for proper operation of the Customer's generating equipment in parallel with the BWL's system. The Customer will also be liable for costs of future changes due to safety or adverse effects on the BWL's or other Customer's systems.
- C. Customer generating systems with an AC nameplate capacity of 20 kW or higher will require a dedicated generation meter to be installed, owned and maintained by the Customer or the Customer must allow the BWL access to a generation report within 24 hours of request by the BWL.

14.5 TERMINATION

- A. If the Customer does not meet all of the above requirements, the BWL may require termination of parallel operation. Failure to terminate parallel operation when required will be cause for the BWL to interrupt Electric Service to the Customer.

14.6 CONTRACT

- A. The Customer must sign a contract with the BWL before commencing parallel operation. In signing the contract, the Customer must, among other things, accept liability for any damages or injuries caused by the Customer's parallel operation.