Public Utility District No. 1
Of
Jefferson County

INTERCONNECTION STANDARDS
For Customer-Owned, Grid Connected
Electric Generating Systems of 100kW or Less

(Appendix B to Interconnection & Net Metering Agreement)

A. General

This "Interconnection Standard for Customer-Owned, Grid Connected Electric Generating Systems of 100 Kilowatts or Less" sets forth the requirements and conditions for interconnected non-utility-owned electric generation where such generation may be connected for parallel operation with the electrical system of the Pubic Utility District of Jefferson County (JPUD). Generating systems will be permitted to interconnect to the JPUD's electric distribution system (15kV and below) only after a determination by the JPUD that such interconnection will not interfere with the operation of the distribution circuit.

B. Interconnection Requirements

1. Customer shall comply with all the latest applicable National Electric Code (NEC) requirements [NEC Articles 690 and 705], NESC requirements, State of Washington requirements, building codes, and shall obtain electrical permit(s) for the equipment installation.

2. Customer shall provide space for metering equipment and meter base as per JPUD requirements.

3. Customer's over-current device at the service panel shall be marked to indicate power source and connection to the JPUD's distribution system.

4. The Customer shall assume the full responsibility for all maintenance of the generator and protective equipment and keeping of records for such maintenance. These records shall be available to the JPUD for inspection at all times.

5. Customer's power production control system shall comply with NEC Articles 690 and 705; and applicable and current Institute of Electrical and Electronics Engineers (IEEE) Standards including Standard number 1547 "Interconnecting Distributed Resources with Electric Power Systems" and IEEE 1547.1TM—Standard Conformance Test Procedures for Equipment Interconnecting Distributed Resources with Electric Power Systems for parallel operation with JPUD; in particular the:

   a. Power output control system shall automatically disconnect from the JPUD power source upon loss of JPUD voltage and not reconnect until the JPUD's voltage has been restored for at least five (5) minutes continuously.

   b. Power output control system shall automatically initiate a disconnect from the JPUD source within six (6) cycles if Customer's voltage falls below 60 Volts rms to ground (nominal 120 V rms base) on any phase.

   c. Power output control system shall automatically initiate a disconnect from the JPUD's system within two (2) seconds if the voltage rises above 132 Volts rms phase to ground or falls below 104 Volts rms phase to ground (nominal 120 V rms base) on any phase.

d. Power output control system shall automatically initiate a disconnect from the JPUD's system within three (3) cycles for any reverse power flow condition.

6. Customer shall provide a written description of how the protection devices will achieve compliance with the requirements of this policy.

7. Customer shall furnish and install on customer's side of the meter, a UL-approved safety disconnect switch which shall be capable of fully disconnecting the Customer's generating facility from the JPUD's electric system. The disconnect switch shall be located adjacent to the JPUD's meters and shall be of the visible break type in a metal enclosure which can be secured by a padlock. The disconnect switch shall be accessible to JPUD personnel at all times.

8. Customer must agree to maintain appropriate liability insurance in the following amounts: $ 500,000.00

9. **Solar Photovoltaic Equipment** shall be in compliance with Underwriters Laboratories (UL) 1741, *Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Systems*; UL 1703, *Standard for Safety: Flat-Plate Photovoltaic Modules and Panels;* and IEEE 1262-1995, *Recommended Practice for Qualification of Photovoltaic (PV) Modules*; and the solar system shall be installed in compliance with IEEE Standard 929-2000, *Recommended Practice for Utility Interface of Photovoltaic Systems.*

C. Safety

All Safety and operating procedures for joint use equipment shall be in compliance with the Occupational Safety and Health Administration (OSHA) standard 29 CFR 1910.269, the National Electrical Code (NEC), State of Washington rules, JPUD standards, and equipment manufacturer's safety and operating manuals.