



**Florida Power**

A Progress Energy Company

**JAMES A. MCGEE**  
ASSOCIATE GENERAL COUNSEL

August 14, 2002

Ms. Blanca S. Bayó, Director  
Division of the Commission Clerk  
and Administrative Services  
Florida Public Service Commission  
2540 Shumard Oak Boulevard  
Tallahassee, Florida 32399-0850

020000-PU

Re: Small Photovoltaic System Interconnection Agreement

Dear Ms. Bayó:

Enclosed for filing in the subject docket are an original and fifteen copies of Florida Power Corporation's revised Small Photovoltaic System Interconnection Agreement and related Application and Compliance Form. This revised agreement supercedes and replaces the interconnection agreement filed pursuant to Rule 25-6.065, F.A.C., on February 11, 2002.

Please acknowledge your receipt of the above filing on the enclosed copy of this letter and return to the undersigned. Also enclosed is a 3.5 inch diskette containing the above-referenced documents in Word format. Thank you for your assistance in this matter.

Very truly yours,

James A. McGee

JAM/scc  
Enclosure

cc: Mr. Lee Colson  
Christiana T. Moore, Esquire

**INTERCONNECTION OF SMALL PHOTOVOLTAIC SYSTEM  
TO FLORIDA POWER CORPORATION'S ELECTRIC GRID**

**APPLICATION AND COMPLIANCE FORM**

|                                                                                                                                                                                                                                                                                                                                                                             |                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <b>A. Applicant Information</b>                                                                                                                                                                                                                                                                                                                                             |                                                                                 |
| Name: _____ FPC Account No.: _____                                                                                                                                                                                                                                                                                                                                          |                                                                                 |
| Mailing Address: _____                                                                                                                                                                                                                                                                                                                                                      |                                                                                 |
| City: _____                                                                                                                                                                                                                                                                                                                                                                 | Zip Code: _____                                                                 |
| Street Address (if different): _____                                                                                                                                                                                                                                                                                                                                        |                                                                                 |
| Daytime Phone: _____                                                                                                                                                                                                                                                                                                                                                        | Fax: _____ Email: _____                                                         |
| <b>B. Photovoltaic System Information</b>                                                                                                                                                                                                                                                                                                                                   |                                                                                 |
| System Name/Model: _____                                                                                                                                                                                                                                                                                                                                                    | Array DC Power at STC _____ watts                                               |
| List Manufacturer/Model for:                                                                                                                                                                                                                                                                                                                                                |                                                                                 |
| Modules: _____                                                                                                                                                                                                                                                                                                                                                              | Inverter: _____ Batteries (if applicable): _____                                |
| Array Location: _____                                                                                                                                                                                                                                                                                                                                                       | Inverter Location: _____                                                        |
| AC Disconnect Location: _____                                                                                                                                                                                                                                                                                                                                               | Permission to Monitor? <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <b>C. Installation Contractor Information</b>                                                                                                                                                                                                                                                                                                                               |                                                                                 |
| Installation Contractor: _____, FL License No.: _____                                                                                                                                                                                                                                                                                                                       |                                                                                 |
| Address: _____                                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| City: _____                                                                                                                                                                                                                                                                                                                                                                 | Zip Code: _____                                                                 |
| Daytime Phone: _____                                                                                                                                                                                                                                                                                                                                                        | Fax: _____ Email: _____                                                         |
| Proposed Installation Date: _____                                                                                                                                                                                                                                                                                                                                           |                                                                                 |
| <b>D. Hardware and Installation Compliance</b>                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| 1. The system hardware is in compliance with <i>Underwriters Laboratories (UL) 1741, Standard for Static Inverters and Charge Controllers for Use in Photovoltaic Systems</i> , and <i>UL 1703, Standard for Safety: Flat-Plate Photovoltaic Modules and Panels</i> , and <i>IEEE 1262-1995, IEEE Recommended Practice for Qualification of Photovoltaic (PV) Modules</i> . |                                                                                 |
| 2. The system has been installed in compliance with <i>IEEE Standard 929, Recommended Practice for Utility Interface of Photovoltaic Systems</i> and the <i>1999 National Electrical Code®</i> .                                                                                                                                                                            |                                                                                 |
| Signed (Contractor): _____ Date: _____                                                                                                                                                                                                                                                                                                                                      |                                                                                 |
| Name (Print): _____ Company: _____                                                                                                                                                                                                                                                                                                                                          |                                                                                 |
| <b>E. Owner Acknowledgment</b>                                                                                                                                                                                                                                                                                                                                              |                                                                                 |
| The system has been installed to my satisfaction and I have been given system warranty information, and an operation manual. Also, I have been thoroughly instructed in the operation and maintenance of the system.                                                                                                                                                        |                                                                                 |
| Signed (Owner): _____ Date: _____                                                                                                                                                                                                                                                                                                                                           |                                                                                 |
| <b>F. Electrical Code Inspection</b>                                                                                                                                                                                                                                                                                                                                        |                                                                                 |
| Satisfies Code Requirements                                                                                                                                                                                                                                                                                                                                                 |                                                                                 |
| Inspector Name (Print): _____                                                                                                                                                                                                                                                                                                                                               |                                                                                 |
| Inspector Signature: _____                                                                                                                                                                                                                                                                                                                                                  | Date: _____                                                                     |
| <b>G. Florida Power Corporation Approval</b>                                                                                                                                                                                                                                                                                                                                |                                                                                 |
| Satisfies FPC Interconnection Requirements                                                                                                                                                                                                                                                                                                                                  |                                                                                 |
| FPC Representative Name (Print): _____                                                                                                                                                                                                                                                                                                                                      | Phone: _____                                                                    |
| FPC Representative Signature: _____                                                                                                                                                                                                                                                                                                                                         | Date: _____                                                                     |

## STANDARD INTERCONNECTION AGREEMENT FOR SMALL PHOTOVOLTAIC SYSTEMS

THIS AGREEMENT is made this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, by and between \_\_\_\_\_ (hereinafter called "the Customer"), located at the address shown in the attached Application and Compliance Form, and Florida Power Corporation, a corporation organized and existing under the laws of the State of Florida (hereinafter called "the Company").

### WITNESSETH:

WHEREAS, the Customer has made a request to interconnect its Small Photovoltaic System (SPS), 10 kilowatts or less, with the Company's electric supply grid at the Customer's presently metered location.

NOW, THEREFORE, in consideration of the mutual covenants and agreements expressed herein, the Company and the Customer agree as follows:

1. The Customer certifies that the SPS hardware and its installation, operation and maintenance is in compliance and shall continue to comply with the applicable standards, codes and manufacturer's instructions set forth in the Application and Compliance Form attached hereto and incorporated herein, and that all other information therein provided by the Customer is true and correct.
2. The Customer is responsible for the protection of its generation equipment, inverters, protection devices, and other system components from damage from the normal and abnormal operations that occur on the Company's utility system in delivering and restoring system power; and is responsible for insuring that the SPS equipment is inspected, maintained, and tested in accordance with the manufacturer's instructions to insure that it is operating correctly and safely.
3. The Customer shall maintain general liability insurance for personal injury and property damage in the amount of not less than one hundred thousand dollars (\$100,000). The Customer shall provide initial proof of insurance in the form of a certificate attached to this Agreement evidencing the Customer's insurance coverage in effect at the time of interconnection. The certificate shall list the SPS as a covered addition to the Customer's insured property. The Customer shall submit similar proof of continuing insurance coverage within 30 days of any policy renewal.
4. The Company may open the SPS disconnect switch, and thereby isolate the SPS, without prior notice to the Customer. To the extent practical, however, prior notice shall be given. The switch will be re-closed as soon as practical once the conditions causing the disconnection cease to exist. Typical conditions which may require the switch to be opened are:
  - (a) Company utility system emergencies or maintenance requirements.
  - (b) Hazardous conditions existing on the Company's utility system due to the operation of the Customer's SPS generation or protective equipment as determined by the Company.
  - (c) Adverse electrical effects (such as power quality problems) on the electrical equipment of the company's other electric consumers caused by the SPS as determined by the Company.
  - (d) Failure of the Customer to maintain the required insurance for the duration of this Agreement.

5. The Customer shall defend, protect, indemnify and hold harmless the Company (including reimbursement of all attorney's fees) from and against any and all losses, damages, costs, expenses, claims, causes of action, lawsuits and liabilities arising out of or relating in any way to the operation of the SPS by Customer, except to the extent such loss is caused by the negligent action of the Company.
6. In no event shall any statement, representation, or lack thereof, either express or implied, by the Company, relieve the Customer of exclusive responsibility for the Customer's SPS. Specifically, any company inspection of the SPS shall not be construed as confirming or endorsing the SPS design or its operating or maintenance procedures nor as a warranty or guarantee as to the safety, reliability, or durability of the SPS equipment. The Company's inspection, acceptance, or its failure to inspect shall not be deemed an endorsement of any SPS equipment or procedure.
7. The Customer shall pay to the Company a non-refundable fee of \$95.00 for processing the attached Application and Compliance Form and this Agreement.
8. The Company may install an additional meter or metering equipment on the Customer's premises capable of measuring any excess kilowatt-hours produced by the SPS and delivered to the Company's electric system. The cost of the meter, installation, maintenance, and any costs of reading and billing associated with this second meter shall be borne by the Company. The value of such excess generation shall be credited to the Customer's bill based on the Company's COG-1 tariff, or by other applicable tariffs approved by the Florida Public Service Commission.

If the Company does not install such additional meter or metering equipment, any excess power delivered to the Company's electric system shall be measured by use of a single standard watt-hour meter capable of reversing directions to offset recorded consumption by the Customer. If the kilowatt-hours of energy produced by the SPS exceeds the Customer's kilowatt-hour consumption for any billing period, such that when the meter is read the value displayed on the register is less than the value displayed on the register when it was read at the end of the previous billing period, the Company shall carry forward credit for the excess energy to the next billing period. Credits may accumulate and be carried forward for a maximum of 11 consecutive monthly billing periods following the billing month in which the credit first occurred. If at the conclusion of such 11 monthly billing periods a credit balance still exists, the remaining credit shall be removed from the bill and the Customer shall receive no payment for the related excess energy.

9. Prior to connection and parallel operation of the SPS with the Company's electric system, the Customer shall permit the Company, if it should so choose, to inspect the SPS and its component equipment and the documents necessary to insure compliance with various sections of this Agreement and to witness the initial testing of the Customer's SPS equipment and protective apparatus, including verification of the proper operation of the SPS disconnect switch.
10. On termination of services pursuant to this Agreement, the Company shall open and padlock the manual disconnect switch and remove any additional metering equipment related to this Agreement. At the Customer's expense, within 10 working days following the termination, the Customer shall permanently isolate the SPS and any associated equipment from the Company's electric supply system, notify the Company that the isolation is complete, and coordinate with the Company for return of the Company's lock.
11. The Customer shall not have the right to assign its benefits or obligations under this Agreement without the Company's prior written consent and such consent shall not be

unreasonably withheld. The Company may require the assignee to sign a new copy of this Agreement, agreeing to all its requirements and paying the applicable processing charge.

12. In executing this Agreement, the Company does not, nor should it be construed to extend its credit or financial support for the benefit or any third parties lending money to or having other transactions with Customer or any assignee of this Agreement.
13. This Agreement shall be governed by and construed and enforced in accordance with the laws, rules and regulations of the State of Florida and the Company's Tariff as may be modified, changed, or amended from time to time.
14. The Company's Tariff and associated technical terms and abbreviations, general rules and regulations and standard electric service requirements, as may be applicable, are incorporated by reference.

IN WITNESS WHEREOF, the Customer and the Company have executed this Agreement in triplicate the day and year first written above.

CUSTOMER

COMPANY

\_\_\_\_\_  
signature of Customer or authorized representative

\_\_\_\_\_  
signature of authorized representative

\_\_\_\_\_  
title of authorized representative

\_\_\_\_\_  
title of authorized representative

8/9/02