



September 29, 2000

Ms. Blanca S. Bayo, Director
Divisions and Records and Reporting
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida, 32399-0850

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RECORDS AND REPORTING
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Re: Interconnection Agreement between Florida Power & Light Company ("FPL") and the United States Air Force at Patrick Air Force Base ("USAF's PAFB Premises")

Dear Ms. Bayo:

Enclosed for filing with the Commission, for informational purposes, is a copy of the above-referenced Interconnection Agreement, dated July 10, 2000.

This Interconnection Agreement differs from FPL's standardized "Momentary Parallel Operation Interconnection Agreement" previously approved by the Commission on March 30, 1994, in that this Agreement's terms will permit USAF to operate 6,600 kW of standby electrical generation in parallel with FPL's system for periods exceeding 100 milliseconds for purposes of paralleling USAF's generators with the FPL System for testing, maintenance, or as required by the parties' commercial industrial load control (CILC) agreement.

This Interconnection Agreement also differs from FPL's "Interconnection Agreement for Qualifying Facilities," as approved by the Commission effective September 20, 1991, because USAF's electrical generation does not constitute a "qualifying facility" under federal or state laws or regulations.

This Interconnection Agreement does, however, conform with FPL's specifications as required by Rule 4.5 of FPL's "General Rules and Regulations for Electric Service," also previously approved by the Commission. Such specifications of FPL comport, in all significant respects, with the Commission's Rule 25-17.087, F. A. C.

Sincerely,

Alberto Gonzalez
Transmission Business Manager
Transmission Operations & Planning

Enclosure

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FPSC-RECORDS/REPORTING

INTERCONNECTION AGREEMENT
BETWEEN
FLORIDA POWER & LIGHT COMPANY
AND THE
UNITED STATES AIR FORCE

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ARTICLE I
DEFINITIONS

1
2
3
4 **Section 1.01 - FPL Facilities:** All facilities on FPL's side of the Point of Change of Ownership,
5 including, but not limited to, improvements, terminal facilities, interconnection equipment, protective
6 equipment, and other related equipment and materials. In addition, FPL Facilities include one FPL
7 cabinet containing Interconnection Equipment (including but not limited to, protective relays), accessible
8 only to FPL personnel, located on USAF's side of the Point of Change of Ownership. Exhibit A,
9 Interconnection Configuration, shows the Point of Change of Ownership between the FPL Facilities and
10 the USAF Facilities.

11 **Section 1.02 - Interconnection Facilities:** All FPL Facilities and USAF Facilities which FPL
12 determines are necessary to interconnect the USAF Generation Facility with FPL's system in a safe and
13 reliable manner pursuant to Section 3.01 of this Agreement, including, but not limited to, FPL
14 Facilities, Protective Equipment, USAF Facilities and related facilities (including, but not limited to,
15 other substation facilities) as shown on Exhibit A to this Agreement. The major components of the
16 Interconnection Facilities on FPL's side of the Point of Change of Ownership are shown on Exhibit A
17 to this Agreement.

18 **Section 1.03 - Late Payment Interest Rate:** The rate of interest established by the Secretary of the
19 Treasury, and published in the Federal Register, for interest payments under the Contract Disputes Act
20 of 1978 (41 U.S.C. §611), which is in effect at the time USAF accrues the obligation to pay a late
21 payment interest penalty.

22 **Section 1.04 - USAF Facilities:** All facilities on USAF's side of the Point of Change of Ownership,
23 with the exception of one FPL cabinet containing Interconnection Equipment (including, but not limited
24 to, protective relays), accessible only to FPL personnel, located on USAF's side of the Point of Change
25 of Ownership.

26 **Section 1.05 - USAF Generation Facility:** The 6,600 kW of standby generation at USAF's PAFB
27 Premises, consisting of four 1,650 kW generators located at the USAF Emergency Generating Plant
28 shown on Exhibit A to this Agreement. The USAF Generating Facility, as defined in this Section 1.05,
29 shall only include the four 1,650 kW generators that are physically connected to the generator bus at

1 the USAF Emergency Generating Plant and shall not include any other generator located on USAF's
2 PAFB Premises.

3 **Section 1.06 - Operating Representatives:** Those individuals appointed by the respective Parties
4 pursuant to Section 8.01.

5 **Section 1.07 - Past Due After Date:** Thirty days from the date USAF receives an invoice. USAF is
6 deemed to receive an invoice on (i) the date USAF actually receives and annotates the date of receipt
7 at the time of actual receipt on the invoice or (ii) on the date of the invoice if USAF has failed to
8 annotate the invoice with the date of receipt at the time of actual receipt. If the Past Due After Date
9 falls on a Saturday, Sunday, or legal holiday when Federal Government offices are closed and
10 government business is not expected to be conducted, payment may be made on the following business
11 day without incurring a late payment interest penalty.

12 **Section 1.08 - Point of Change of Ownership:** The point(s) at which the USAF Facilities connect to
13 the FPL Facilities as shown on Exhibit A to this Agreement.

14 **Section 1.09 - Protective Equipment:** Includes, but shall not be limited to, protective relays, relaying
15 panels, relaying cabinets, circuit breakers, conduits, cabling, current transformers, potential
16 transformers, coupling capacitor voltage transformers, wave traps, transfer trip and fault recorders,
17 which directly or indirectly provide input to relays, fiber optic communication equipment, power line
18 carrier equipment and telephone circuits, and any other equipment necessary to implement the
19 protection-related provisions of this Agreement.

20
21
22 **ARTICLE II**

23 **TERM**

24 **Section 2.01 - Term:** The term of this Agreement shall commence on the date hereof and shall, except
25 as provided in this Section 2.01 and in Section 12.01, continue in effect for an initial term which shall
26 expire October 1, 2013, and thereafter shall automatically be extended for periods of two years each;
27 however, either Party may terminate this Agreement at the end of the initial term or at the end of any
28 two year extension hereof upon a minimum of two years' advance written notice to the other Party, or
29 at any time upon mutual consent of the Parties. Upon any termination, USAF shall reimburse FPL for
30 all non-reimbursed costs and expenses incurred by FPL pursuant to this Agreement.

1 **ARTICLE III**

2 **CONSTRUCTION OF INTERCONNECTION FACILITIES**

3
4 **Section 3.01 - Interconnection Facilities:** The Parties shall, pursuant to this Agreement, design,
5 engineer, modify, upgrade, install and construct the Interconnection Facilities necessary to connect the
6 USAF Generation Facility with FPL's system. A list of the major components of the Interconnection
7 Facilities to be provided by FPL is set forth on Exhibit B to this Agreement.

8 **Section 3.01.01 - Construction Responsibilities of FPL:** FPL shall, at USAF's expense,
9 design, engineer, modify, upgrade, install, construct and own the Interconnection Facilities on
10 FPL's side of the Point of Change of Ownership, including the one relay cabinet referenced in
11 Section 1.01 on USAF's side of the Point of Change of Ownership, as FPL determines
12 necessary to interconnect the USAF Generation Facility with FPL's system in a safe and reliable
13 manner. Further, the design, engineering, modification, upgrade, installation and construction
14 shall comply with all applicable laws, regulations and codes, including the National Electrical
15 Safety Code, and shall be in accordance with prudent utility practices and FPL standards.
16 FPL's estimate of these costs is shown on Exhibit C - Estimate of Interconnection Costs.

17 **Section 3.01.02 - Construction Responsibilities of USAF:** USAF shall, at its own expense,
18 design, engineer, modify, upgrade, install, construct and own the Interconnection Facilities on
19 USAF's side of the Point of Change of Ownership necessary to interconnect the USAF
20 Generation Facility with FPL's system in a safe and reliable manner. It is understood that
21 USAF has, by separate agreement and delivery order, contracted for the design of such
22 Interconnection Facilities on USAF's side of the Point of Change of Ownership with the
23 exception of one FPL cabinet containing Interconnection Equipment. It is further understood
24 and agreed that the design, engineering, modification, upgrade, installation and construction of
25 such Interconnection Facilities shall comply with all applicable laws, regulations and codes,
26 including the National Electrical Safety Code, and shall be in accordance with prudent utility
27 practices.

28 **Section 3.02 - USAF Facilities:** USAF shall, at its own expense, design, engineer, modify, upgrade,
29 install, construct and own those USAF Facilities which interconnect the USAF Generation Facility with

1 FPL's system, and shall make any additions and/or modifications to such USAF Facilities as required
2 to accommodate such interconnection in a safe and reliable manner.

3 **Section 3.03 - Final FPL Design:** The Parties recognize and agree that FPL's design, configuration
4 and estimated costs of the Interconnection Facilities on FPL's side of the Point of Change of Ownership
5 (as delineated on Exhibits A, B and C to this Agreement), including the one relay cabinet referenced
6 in Section 1.01 on USAF's side of the Point of Change of Ownership, are based on preliminary
7 technical data for the USAF Generation Facility and the Interconnection Facilities provided by USAF
8 on USAF's side of the Point of Change of Ownership, and FPL's design, configuration and estimated
9 costs can only be finalized upon FPL's receipt of final technical data from USAF. The Parties shall use
10 best efforts to coordinate the final design and configuration to ensure proper coordinated operation of
11 the Interconnection Facilities. FPL may revise its design, configuration and estimate of costs for
12 Interconnection Facilities on FPL's side of the Point of Change of Ownership, including the one relay
13 cabinet referenced in Section 1.01 on USAF's side of the Point of Change of Ownership, in accordance
14 with prudent utility practices and FPL standards, including, but not limited to, revisions made upon
15 receipt of any additional or revised information from USAF (costs may only be revised pursuant to
16 Sections 6.01 and 6.01.01).

17 **Section 3.04 - Delays:** Based on the preliminary design of the Interconnection Facilities, FPL expects
18 to complete the design and construction of the Interconnection Facilities on FPL's side of the Point of
19 Change of Ownership, including the one relay cabinet referenced in Section 1.01 on USAF's side of
20 the Point of Change of Ownership, within 365 days of execution of this Agreement contingent upon (i)
21 USAF completing construction of the Interconnection Facilities on USAF's side of the Point of Change
22 of Ownership within 365 days of execution of this Agreement, which construction by USAF shall
23 exclude one FPL cabinet containing Interconnection Equipment located on USAF's side of the Point of
24 Change of Ownership and, (ii) the receipt of all final technical data from USAF. Both Parties agree
25 that such expected completion time is based on preliminary technical data for the USAF Generation
26 Facility and the Interconnection Facilities provided by USAF and can only be reasonably finalized after
27 both Parties coordinate and complete the final design and configuration of the Interconnection Facilities
28 as stated in Section 3.03 of this Agreement. Each Party shall keep the other Party informed of
29 construction schedules for the Interconnection Facilities under this Agreement and of any change(s) to
30 the final design or configuration of the Interconnection Facilities or to estimated completion times,

1 including the reason(s) for such change(s). Both Parties shall confer, coordinate and negotiate a revised
2 construction schedule should material changes to the final design of the Interconnection Facilities occur.

3 Each Party agrees to provide to the other Party periodic progress reports on the status of its (their)
4 respective project(s).

5
6 **ARTICLE IV**

7 **INTERCONNECTION FACILITIES - SAFETY AND RELIABILITY**

8
9 **Section 4.01 - USAF Generation Facility:** The USAF Generation Facility is an emergency generation
10 facility and is not a "qualifying facility" under applicable state or federal laws or regulations.

11 **Section 4.02 - General:** FPL and USAF shall operate and maintain their respective Interconnection
12 Facilities in a safe and reliable manner and in accordance with prudent utility practices so as to protect
13 the reliability of FPL's system and the USAF Facilities.

14 **Section 4.02.01 - Hazardous or Unsafe Conditions:** USAF shall immediately notify FPL's
15 System Operator (or such other FPL representative as may be designated in writing by FPL)
16 by telephone at (305) 442-5744 in the event of USAF's discovery of any hazardous or unsafe
17 condition(s) associated with the Parties' operations that affect(s) the Interconnection Facilities
18 or FPL's system. If FPL detects any such condition(s), then FPL shall likewise contact the
19 operator of the USAF Generation Facility by telephone. Each Party agrees to immediately take
20 whatever corrective action is necessary and appropriate to eliminate the hazardous or unsafe
21 condition(s).

22 **Section 4.02.02 - Disconnections:** The USAF Generation Facility shall be promptly
23 disconnected from parallel operation with FPL's electrical system upon oral or written request
24 given by FPL to USAF whenever FPL reasonably determines that such disconnection is
25 necessary (i) to provide safe and reliable service to FPL's customers, (ii) to protect FPL's
26 generation, distribution or transmission facilities, or (iii) when the disconnection is reasonably
27 necessary for the purpose of maintenance, testing, repairs, replacements or installation of
28 equipment, or for investigations and inspections of electrical facilities. In addition, the USAF
29 Generation Facility may be automatically disconnected from parallel operation with FPL's
30 system through the operation of Protective Equipment. Following any disconnection of the

1 USAF Generation Facility, resynchronization of the USAF Generation Facility with FPL's
2 electrical system shall only be accomplished pursuant to Section 4.02.03.

3 **Section 4.02.03 - Synchronization:** Other than as a result of receipt of a Commercial/Industrial
4 Load Control ("CILC") signal from FPL, prior to the synchronization of the USAF Generation
5 Facility with FPL's system, including, but not limited to, resynchronization following
6 disconnection of the USAF Generation Facility pursuant to Section 4.02.02, the Parties'
7 Operating Representatives shall confer regarding such synchronization. The synchronization
8 of the USAF Generation Facility shall be accomplished utilizing USAF's synchronization
9 equipment, and in a safe and reliable manner consistent with FPL's practices for its own
10 equipment. In addition, USAF shall comply with all operating requirements and procedures
11 contained in Exhibit D to this Agreement prior to synchronizing the USAF Generating Facility
12 with the FPL system. Protective Equipment shall be installed by the Parties, at USAF's
13 expense, to prevent inadvertent synchronization of the USAF Generation Facility with FPL's
14 system.

15
16 **ARTICLE V**

17 **OPERATION, MAINTENANCE AND CAPITAL IMPROVEMENTS**

18
19 **Section 5.01 - General:** Each Party shall own and be responsible for the operation and maintenance of
20 the Interconnection Facilities on such Party's side of the Point of Change of Ownership in accordance
21 with prudent utility practices.

22 **Section 5.02 - FPL's Interconnection Facilities:** FPL shall own and have the exclusive right to
23 modify, test, operate and maintain the Interconnection Facilities on FPL's side of the Point of Change
24 of Ownership, including the one FPL cabinet referenced in Section 1.01 located on USAF's side of the
25 Point of Change of Ownership. Additionally, FPL shall have the exclusive right to design, engineer,
26 install, construct, own, modify, test, operate and maintain any capital improvements and replacements
27 which FPL reasonably determines are required for the safe and reliable operation of the Interconnection
28 Facilities on FPL's side of the Point of Change of Ownership, including the one FPL cabinet referenced
29 in Section 1.01 located on USAF's side of the Point of Change of Ownership. FPL shall bill USAF for
30 costs incurred pursuant to this Section 5.02 in accordance with Sections 6.02, 6.02.01, 6.02.02, and

1 7.02 of this Agreement. Notwithstanding the above, to the extent that FPL makes any capital
2 improvements to the Interconnection Facilities on FPL's side of the Point of Change of Ownership for
3 purposes other than accommodating or maintaining the interconnection of the USAF Generation Facility
4 with FPL's system, USAF shall not be responsible for costs and expenses incurred by FPL in
5 constructing, operating and maintaining such capital improvements for such other purposes.

6 **Section 5.03 - USAF Facilities:** USAF shall own, operate and maintain the USAF Facilities.
7 Additionally, USAF shall design, engineer, install, construct, own, operate and maintain any capital
8 improvements which USAF reasonably determines are required for the USAF Facilities. USAF shall
9 coordinate such capital improvements with FPL. USAF shall fulfill its obligations under this Section
10 5.03 at its own expense.

11 **Section 5.04 - Changes by USAF:** USAF shall submit to FPL, for FPL's review and approval or
12 disapproval, any proposed change(s) to the USAF Generation Facility when such proposed change(s)
13 could materially affect the electrical output, capability or reliability of the USAF Generation Facility
14 or FPL's system. Change(s) proposed by USAF shall not be made prior to USAF's receipt of FPL's
15 written approval, which shall not be unreasonably withheld. FPL's approval or disapproval shall be
16 provided to USAF as soon as reasonably practicable. USAF shall provide FPL with sufficient project
17 details and adequate advance written notice to allow FPL to properly evaluate the effect of the change(s)
18 on the interconnected operation of the USAF Generation Facility with FPL's system.

19 **Section 5.05 - Parallel Operations and Limitations:**

20 **Section 5.05.01 - Commercial/Industrial Load Control Program:** The Parties understand and
21 agree that upon installation and testing of all equipment generally shown on Exhibit A, the
22 Interconnection Facilities are configured for parallel operation through FPL's Patrick Substation
23 to enable USAF to conform to the terms of, and to participate in, FPL's CILC program.

24 **Section 5.05.02 - Limitation on Parallel Operations:**

25 Both Parties agree to the following limitations regarding the duration, frequency, and type of
26 parallel operations:

27 (a) USAF shall operate each of its four generators in parallel with FPL's system for periods not
28 to exceed one hour per occurrence, a maximum of twelve times a year, for the purposes of
29 exercising each generator in parallel with FPL's system during periods of emergency
30 conditions, for testing and/or periodic maintenance to ensure the reliability of the USAF

1 Generation Facility and the USAF Facilities. USAF shall provide to the FPL Operating
2 Representative a schedule indicating those periods during which each of USAF's four generators
3 may operate in parallel with FPL's system for testing and/or maintenance purposes. Such
4 schedule shall be provided annually and may be subsequently revised prior to USAF's
5 exercising each generator in parallel with FPL's system for purposes of testing and/or
6 maintenance during a period not indicated in the schedule in effect at that time. In case of any
7 such revision, USAF shall notify FPL at least seventy-two hours prior to exercising each
8 generator in parallel.

9 (b) USAF shall operate its generators in parallel with FPL's system as required by the terms
10 and conditions of FPL's CILC tariff.

11 (c) To safeguard FPL customers, personnel, equipment and USAF personnel and equipment,
12 FPL's Patrick Substation, shown on Exhibit A to this Agreement, shall only be operated in
13 parallel through the USAF Facilities in accordance with and pursuant to the procedures outlined
14 in Exhibit D to this Agreement. USAF agrees that electrically paralleling FPL's Patrick
15 Substation through USAF Facilities other than those facilities outlined in Exhibit D to this
16 Agreement must be prevented under any and all circumstances. Toward this end, USAF has
17 developed operating procedures, which comprise Exhibit D to this Agreement. FPL has
18 reviewed the Exhibit D operating procedures and agrees that, if implemented and followed,
19 these operating procedures are intended to prevent improper paralleling of FPL's South PFAB
20 Substation through the USAF Facilities shown in Exhibit A to this Agreement. The operating
21 procedures in Exhibit D may only be only be modified by the mutual agreement of both Parties.

22 Failure by USAF to strictly adhere to these operating procedures shall constitute a default under
23 Section 12.01 of this Agreement.

24 **Section 5.06 - Harmonics:** USAF shall take whatever measures are necessary to maintain the harmonic
25 distortion levels to those which are recommended by IEEE Standard 519. The harmonics quantity shall
26 be measured at the Point of Change of Ownership.

27
28 **ARTICLE VI**

29 **COST RESPONSIBILITIES**

1 **Section 6.01 - USAF's Cost Responsibilities for Design and Construction:** USAF, pursuant to
2 applicable state laws and regulations regarding, but not limited to, contribution in aid of construction
3 and interconnections, shall be responsible for, and hereby agrees to reimburse FPL for, FPL's
4 reasonably incurred costs and expenses, subject to the not to exceed conditions stated in this Section
5 6.01, in performing its obligations under this Agreement, including, but not limited to:

- 6 (a) All direct and indirect costs of land, other property rights, labor, material, services and
7 studies incurred by FPL in connection with the ownership, design, and construction of
8 the Interconnection Facilities on FPL's side of the Point of Change of Ownership and
9 all other equipment installed by FPL in the performance of its obligations under this
10 Agreement;
- 11 (b) Payroll and other expenses of FPL's employees incurred in connection with FPL's
12 performance of its design and construction obligations under this Agreement, including
13 allowances to reflect the costs of payroll-related taxes, insurance (including that related
14 to Workers' Compensation, Employers' Liability and Unemployment Compensation
15 Insurance), pensions, benefits and overheads; overhead loading rates shall be calculated
16 in accordance with FPL's then-current jobbing procedures, and may include indirect
17 engineering and supervision expenses, and other overhead expenses;
- 18 (c) Costs of labor, services and studies performed for FPL by contractors, jobbers and
19 consultants in connection with FPL's performance of its obligations under this
20 Agreement, including allowances for overheads as provided in item (b) above;
- 21 (d) Costs of materials, supplies, tools, machines, equipment, apparatuses and spare parts
22 incurred in connection with FPL's performance of its obligations under this Agreement,
23 including rental charges, transportation and stores expenses applicable to such costs; and
- 24 (e) All costs imposed upon FPL in connection with FPL's performance of its obligations
25 under this Agreement, including all federal, state and local taxes, impositions or
26 assessments of any character, property taxes and income taxes.

27 An estimate of the costs and expenses FPL expects to incur for designing, acquiring land and land
28 rights, engineering, modifying, upgrading, installing and constructing the Interconnection Facilities on
29 FPL's side of the Point of Change of Ownership, including the one relay cabinet referenced in Section
30 1.01 on USAF's side of the Point of Change of Ownership, is shown on Exhibit D to this Agreement.

1 In no event shall USAF's obligation to pay FPL for costs and expenses incurred, pursuant to this
2 Agreement, exceed such estimate without prior mutual agreement of both Parties.

3 **Section 6.01.01 - Prior Notification Required:** Except as specified in Section 6.01.02, FPL
4 shall provide written notification to USAF for approval prior to incurring capital costs and
5 expenses associated with designing, engineering, modifying, upgrading, installing or
6 constructing Interconnection Facilities on FPL's side of the Point of Change of Ownership,
7 including the one relay cabinet referenced in Section 1.01 on USAF's side of the Point of
8 Change of Ownership, which would cause FPL to exceed the total Estimate of Interconnection
9 Costs set forth on Exhibit C.

10 **Section 6.01.02 - Exceptions to Prior Notification Requirement:** Costs and expenses incurred
11 by FPL in responding to any emergency event(s), relating to Interconnection Facilities and
12 where verbal or written notification of USAF is not possible, will be subject to notification after
13 the event. Notification of an emergency-related expense will be provided by FPL to USAF by
14 FAX transmission within four business days following the occurrence of an emergency event.

15 **Section 6.02 - USAF's Cost Responsibilities for Operation, Maintenance, and Capital**

16 **Improvement:** USAF, pursuant to applicable state laws and regulation regarding, but not limited to,
17 the operation, maintenance, and capital improvement of interconnection facilities, shall be responsible
18 for, and hereby agrees to reimburse FPL for FPL's reasonably incurred costs and expenses, subject to
19 the not to exceed conditions stated in this Section 6.02, for the operation, maintenance, modification,
20 improvement, or replacement of the Interconnection Facilities on FPL's side of the Point of Change of
21 Ownership, including the one relay cabinet referenced in Section 1.01 on USAF's side of the Point of
22 Change of Ownership, including, but not limited to:

- 23 (a) All direct and indirect costs of land, other property rights, labor, material, services and
24 studies incurred by FPL in connection with the operation, maintenance, modification,
25 improvement, or replacement of the Interconnection Facilities on FPL's side of the
26 Point of Change of Ownership, including the one relay cabinet referenced in Section
27 1.01 on USAF's side of the Point of Change of Ownership, and all other equipment
28 installed by FPL under this Agreement;
- 29 (b) Payroll and other expenses of FPL's employees incurred in connection with the
30 operation, maintenance, modification, improvement, or replacement of the

1 Interconnection Facilities on FPL's side of the Point of Change of Ownership, including
2 the one relay cabinet referenced in Section 1.01 on USAF's side of the Point of Change
3 of Ownership, and all other equipment installed by FPL under this Agreement,
4 including allowances to reflect the costs of payroll-related taxes, insurance (including
5 that related to Workers' Compensation, Employers' Liability and Unemployment
6 Compensation Insurance), pensions, benefits and overheads; overhead loading rates
7 shall be calculated in accordance with FPL's then-current jobbing procedures, and may
8 include indirect engineering and supervision expenses, and other overhead expenses;

9 (c) Costs of labor, services and studies performed for FPL by contractors, jobbers and
10 consultants in connection with the operation, maintenance, modification, improvement,
11 or replacement of the Interconnection Facilities on FPL's side of the Point of Change
12 of Ownership, including the one relay cabinet referenced in Section 1.01 on USAF's
13 side of the Point of Change of Ownership, and all other equipment installed by FPL
14 under this Agreement, including allowances for overheads as provided in item (b)
15 above;

16 (d) Costs of materials, supplies, tools, machines, equipment, apparatuses and spare parts
17 incurred in connection with the operation, maintenance, modification, improvement, or
18 replacement of the Interconnection Facilities on FPL's side of the Point of Change of
19 Ownership, including the one relay cabinet referenced in Section 1.01 on USAF's side
20 of the Point of Change of Ownership, and all other equipment installed by FPL under
21 this Agreement, including rental charges, transportation and stores expenses applicable
22 to such costs; and

23 (e) All costs imposed upon FPL in connection with the operation, maintenance,
24 modification, improvement, or replacement of the Interconnection Facilities on FPL's
25 side of the Point of Change of Ownership, including the one relay cabinet referenced
26 in Section 1.01 on USAF's side of the Point of Change of Ownership, and all other
27 equipment installed by FPL under this Agreement, including all federal, state and local
28 taxes, impositions or assessments of any character, property taxes and income taxes.

29 In no event shall FPL exceed the 12 month budget, referenced in Section 7.02 of this Agreement, for
30 the operation, maintenance, modification, improvement, or replacement of the Interconnection Facilities

1 on FPL's side of the Point of Change of Ownership, including the one relay cabinet referenced in
2 Section 1.01 on USAF's side of the Point of Change of Ownership, without the prior mutual agreement
3 of both Parties. Costs and expenses related to emergency event(s), as defined in Section 7.02, are not
4 included in the 12 month budget for the operation, maintenance, modification, improvement, or
5 replacement of the Interconnection Facilities on FPL's side of the Point of Change of Ownership,
6 including the one relay cabinet referenced in Section 1.01 on USAF's side of the Point of Change of
7 Ownership, and shall be billed separately pursuant to Section 7.02.

8 **Section 6.02.01 - Prior Notification Required:** Except as specified in Section 6.02.02, FPL
9 shall provide written notification to USAF for approval prior to incurring capital costs and
10 expenses associated designing, engineering, installing, constructing, modifying, and maintaining
11 any capital improvements and replacements which would cause FPL to exceed the 12 month
12 budget for the operation and maintenance of the Interconnection Facilities on FPL's side of the
13 Point of Change of Ownership, including the one relay cabinet referenced in Section 1.01 on
14 USAF's side of the Point of Change of Ownership, as referenced in Section 7.02 of this
15 Agreement.

16 **Section 6.02.02 - Exceptions to Prior Notification Requirement:** Costs and expenses incurred
17 by FPL in responding to any emergency event(s), relating to Interconnection Facilities and
18 where verbal or written notification of USAF is not possible, will be subject to notification after
19 the event. Notification of an emergency-related expense will be provided by FPL to USAF by
20 FAX transmission within four business days following the occurrence of an emergency event.
21

22 **Section 6.03 - FPL's Cost-Related Responsibilities:** FPL shall be responsible for billing USAF for
23 any costs and expenses owed by USAF to FPL pursuant to this Agreement. Additionally, FPL shall
24 not be responsible for costs and expenses incurred by USAF in fulfilling USAF's obligations pursuant
25 to this Agreement.

1 **ARTICLE VII**

2 **BILLING AND PAYMENT**

3 **Section 7.01 - Billing and Payment for FPL Facilities:**

4 **Section 7.01.01 - Initial Payments:** Within thirty days of execution of this Agreement, USAF
5 shall remit to FPL a check for the total preliminary cost estimate as shown on Exhibit C. FPL
6 shall apply these payments against USAF's final billing.

7 **Section 7.01.02 - Final Billing and Payment:** As soon as practicable after FPL closes out its
8 construction project, FPL shall provide USAF an invoice for all actual costs and expenses
9 incurred by FPL for designing, engineering, modifying, upgrading, installing and constructing
10 the Interconnection Facilities on FPL's side of the Point of Change of Ownership, including the
11 one relay cabinet referenced in Section 1.01 on USAF's side of the Point of Change of
12 Ownership, pursuant to this Agreement. If the final bill amount for the interconnection costs
13 exceeds the sum of the initial payments received by FPL from USAF pursuant to Section
14 7.01.01 and Exhibit C, FPL will issue an invoice to USAF for the amount of the difference.

15 In no event shall USAF's obligation to pay FPL for costs and expenses incurred by FPL for
16 designing, engineering, modifying, upgrading, installing and constructing FPL's Facilities
17 pursuant to this Agreement exceed the Estimate of Interconnection Costs shown in Exhibit C^{S.A.}
18 without the prior mutual consent of both Parties. Such invoice shall be due when rendered and
19 payable on or before the Past Due After Date in immediately available funds, or by other
20 mutually agreeable method of payment. If the bill is not paid in full on or before the Past Due
21 After Date, it shall be deemed delinquent and shall accrue interest thereafter at the Late
22 Payment Interest Rate, prorated for the past due period, until fully paid. If the final bill amount
23 for the interconnection costs is less than the sum of the initial payments received by FPL from
24 USAF pursuant to Section 7.01.01 and Exhibit D, FPL will refund USAF the amount of the
25 difference by check or by other mutually agreeable method of payment.

26
27 **Section 7.02 - Budgeting, Billing and Payment for Operation and Maintenance Expenses:** FPL

28 shall annually provide to USAF a budget for the operation, maintenance, modification, improvement
29 or replacement of the Interconnection Facilities on FPL's side of the Point of Change of Ownership,
30 including the one relay cabinet referenced in Section 1.01 on USAF's side of the Point of Change of

1 Ownership. Each such budget shall be provided to USAF by June 1 of the then-current year and cover
2 the 12-month period from October 1 of the then-current year to September 30 of the following year.

3 FPL shall bill USAF a service charge to recover from USAF all costs and expenses incurred by FPL
4 for operation, maintenance, modification, improvement or replacement of the Interconnection Facilities
5 on FPL's side of the Point of Change of Ownership, including the one relay cabinet referenced in
6 Section 1.01 on USAF's side of the Point of Change of Ownership, pursuant to this Agreement. Such
7 service charge shall be billed quarterly and appear as a separate line item on USAF's monthly electric
8 bill. Charges and expenses resulting from emergency event(s) are not included in the 12 month budget
9 for the operation, maintenance, modification, improvement or replacement of Interconnection Facilities
10 on FPL's side of the Point of Change of Ownership, including the one relay cabinet referenced in
11 Section 1.01 on USAF's side of the Point of Change of Ownership, and shall be billed, on a quarterly
12 basis, as a separate line item on USAF's monthly electric bill. An emergency event shall be defined
13 as any malfunction or failure of Interconnection Facilities which requires prompt, unscheduled actions,
14 repairs, or equipment change-outs by FPL to ensure the safe and reliable operation of the
15 Interconnection Facilities. FPL shall provide USAF information to support all such quarterly service
16 and emergency charges. Furthermore, FPL shall provide, upon USAF's request, a statement of purpose
17 and necessity regarding any capital improvement to the Interconnection Facilities on FPL's side of the
18 Point of Change of Ownership, including the one relay cabinet referenced in Section 1.01 on USAF's
19 side of the Point of Change of Ownership. All such payments shall be due when rendered and payable
20 on or before the Past Due After Date in immediately available funds, or by other mutually agreeable
21 method of payment. Bills not paid on or before the Past Due After Date shall be deemed delinquent
22 and shall accrue interest thereafter at the Late Payment Interest Rate until fully paid.

23 **Section 7.03 - Disputed Bills:** In the event that any portion of any bill is in bona fide dispute, payment
24 of the entire billed amount shall be made when due, but the disputed portion of the bill may be paid
25 under protest. Payments made and designated "Paid under Protest" shall be accompanied by the
26 reason(s) for such protest and, to the extent possible, the amount paid under protest shall be specified.

27 Upon final determination of the correct amount, any refund due USAF resulting from the settlement
28 of the dispute shall be payable to USAF within fifteen days and shall accrue interest at the Late Payment
29 Interest Rate from one day after FPL received such overpayment from USAF, unless the dispute is
30 resolved by a settlement between the Parties which provides otherwise. Pursuant to Section 25-22.032

1 of the Florida Administrative Code and other applicable state laws, billing disputes between FPL and
2 USAF are under the jurisdiction of the Florida Public Service Commission. If a billing dispute cannot
3 be resolved by mutual agreement of the Parties, USAF and FPL may resolve the billing dispute
4 according to the regulations contained in Section 25-22.032 of the Florida Administrative Code.

5 **Section 7.04 - Disconnection of Facilities:** In the event that USAF (i) fails to pay to FPL any sum
6 when due, or (ii) does not, under Section 6.01, 6.01.01, 6.02, 6.02.01, 7.01.02 or Section 7.02, concur
7 with and approve FPL's proposed action(s), then FPL shall have the right, in addition to all other rights
8 and remedies available to FPL under this Agreement and under applicable law, to take all necessary
9 actions to disconnect the USAF Generation Facility and the USAF Facilities from parallel operation
10 with the FPL system to the extent permitted by law. Pursuant to this Section 7.04, FPL shall give
11 USAF at least thirty (30) days' advance written notice of its intention to take action to disconnect the
12 USAF Generation Facility and the USAF Facilities, and USAF shall have such thirty-day period in
13 which to pay such sum, including accrued interest thereon. FPL shall disconnect the USAF Generation
14 Facility and the USAF Facilities from parallel operation with the FPL system upon termination of this
15 Agreement.

16 **Section 7.05 - Reimbursement of Costs Imposed on FPL:** USAF agrees to reimburse and indemnify
17 and hold FPL harmless and make it whole for any and all local, Florida or federal income tax
18 consequences resulting from FPL's receipt of any sum(s) of money from USAF, or for the construction
19 work performed and facilities conveyed pursuant to this Agreement, whether or not determined to be
20 gross revenue, contribution in aid of construction or otherwise, including, without limiting the generality
21 of the foregoing, additional tax on any sum(s) or facilities received hereunder.

22 **Section 7.06 - Challenges to Bills:** Either Party may challenge the correctness of any bill or billing
23 adjustment pursuant to this Agreement no later than twelve months after the date payment of such bill
24 or billing adjustment is due. If a Party does not challenge the correctness of a bill or billing adjustment
25 within such twelve-month period, such bill or billing adjustment shall be binding upon that Party and
26 shall not be subject to challenge. Any such challenge must be in writing. Where it is determined as a
27 result of any such challenge that an adjustment to a bill or a previous billing adjustment is appropriate,
28 such adjustment shall include interest accrued at the Late Payment Interest Rate for each applicable
29 month from the time the bill was originally rendered until such month as the billing adjustment is made
30 pursuant to this Section 7.06.

1
2 **ARTICLE VIII**

3 **OPERATING REPRESENTATIVES**
4

5 **Section 8.01 - Operating Representatives:** Each Party shall appoint, or cause its designee to appoint,
6 an Operating Representative who shall be the person responsible for the daily operations of that Party,
7 and shall notify, or cause its designee to notify, the other Party of such appointment. Each Party or its
8 designee will also appoint an alternate Operating Representative to act for it in the absence of the
9 primary Operating Representative, and may change such appointment(s) of primary or alternate
10 Operating Representative(s) at any time by similar written notice. The Operating Representatives shall
11 hold meetings at the request of either Party at a time and place agreed by the Parties to review the duties
12 set forth herein or to discuss any other matters within the scope of their authority. The Operating
13 Representatives shall be responsible for effecting such duties as may be required of them, including,
14 but not limited to, start-up and synchronization of the USAF Generation Facility, and any other duties
15 as may be conferred upon them by mutual agreement of FPL and USAF. Each Party shall cooperate
16 in providing to the Operating Representatives all information required in the performance of their duties.
17 All decisions and agreements made by the Operating Representatives shall be evidenced in writing.

18
19 **ARTICLE IX**

20 **INDEMNITY**
21

22 **Section 9.01 - Indemnification:** FPL and USAF shall each be responsible for its own facilities. FPL
23 and USAF shall each be responsible for ensuring adequate safeguards for other FPL customers, FPL
24 and USAF personnel and equipment, and for the protection of its own generating system. FPL and
25 USAF, to the extent permitted by the Federal Tort Claims Act (28 U.C.S. §§1346, 2671 et seq.), shall
26 each indemnify and save the other harmless from any and all claims, demands, costs or expenses for
27 loss, damage or injury to persons or property caused by, arising out of, or resulting from:

- 28 (i) Any act or omission by a Party or that Party's contractors, agents, servants and
29 employees in connection with the installation, operation or maintenance of that Party's

1 generation, transmission and distribution systems, or the operation thereof in connection
2 with the other Party's system;

3 (ii) Any defect in, failure of, or fault related to, a Party's generation, transmission and
4 distribution systems;

5 (iii) The negligence of a Party or negligence of that Party's contractors, agents, servants and
6 employees; or

7 (iv) Any other event or act that is the result of, or proximately caused by, a Party.
8

9 Each Party's indemnity - related obligation(s) hereunder shall be limited to \$1,000,000 per occurrence.
10

11 **ARTICLE X**

12 **LIMITATION OF LIABILITY**

13
14 **Section 10.01 - Limitation of Liability:** In no event shall either Party be liable (in contract or in tort,
15 including negligence, or otherwise) to the other Party or its suppliers or its subcontractors for indirect,
16 incidental or consequential damages resulting from a Party's performance, non-performance or delay
17 in performance of its obligations under this Agreement.
18

19 **ARTICLE XI**

20 **FORCE MAJEURE**

21
22
23 **Section 11.01 - Force Majeure:** In the event that either Party should be delayed in, or prevented from,
24 performing or carrying out any of the agreements, covenants and obligations to interconnect the USAF
25 Generation Facility with FPL's system made by, or imposed by this Agreement upon, said Party, by
26 reason of or through any cause reasonably beyond its control (not attributable to its or its contractors'
27 or suppliers' neglect or lack of due diligence), including, but not limited to, strikes, lockouts or other
28 labor disputes or difficulties, riot, fire, flood, ice, invasion, civil war, hurricanes, insurrection, military
29 or usurped power, action or inaction of any civil or military authority (including courts and
30 governmental or administrative agencies), explosion, act of God or public enemies, then, in each such

1 case or cases, the Party who is unable to perform shall not be liable to the other Party for, or on account
2 of, any loss, damage, injury or expense (including consequential damages and cost of replacement
3 power) resulting from or arising out of any such delay or prevention from performing; provided,
4 however, the Party suffering any such delay or prevention shall use due and, in its judgment, practicable
5 diligence to remove the cause(s) thereof; and provided, further, neither Party shall be required by the
6 foregoing provisions to settle a strike, lockout or other labor dispute affecting it except when, according
7 to its own best judgment, such a settlement seems advisable. Events of Force Majeure affecting USAF
8 shall not excuse USAF from its obligations under Article IX, or to make payment for any charges
9 payable pursuant to this Agreement. A Party experiencing an event of Force Majeure shall notify the
10 other Party thereof as soon as practicable.

11 **ARTICLE XII**

12 **MISCELLANEOUS**

13
14 **Section 12.01 - Default:** If either Party shall default in any of its material obligations under this
15 Agreement and such Party fails to cure the default within thirty days after receipt of notice thereof is
16 given in writing by the other Party, the Party not in default may terminate this Agreement by written
17 notice thereof to the Party in default, effective thirty days after such notice of termination is given. If
18 such default is remedied during the thirty-day period following notice of termination, this Agreement
19 shall not be terminated due to such default; provided, however, if it is not feasible to correct such
20 default within thirty days after written notice of such default has been delivered to the defaulting Party
21 by the other, but it is and remains feasible to correct such default within one year after such notice, it
22 shall not constitute grounds for termination hereunder until the earliest feasible date within such one-
23 year period when a cure could be effected so long as (i) corrective action by the defaulting Party is
24 instituted within ten days of the date of such notice, (ii) such corrective action is diligently pursued, (iii)
25 the defaulting Party provides to the other Party monthly written reports as to the nature and progress
26 of such corrective action, and (iv) such default is cured by the earliest feasible date within such one-year
27 period.

28 **Section 12.02 - Responsibility for the USAF Generation Facility and the USAF Facilities:** In no
29 event shall any FPL statement, representation or lack thereof, either express or implied, relieve USAF
30 of its exclusive responsibility for the USAF Generation Facility and the USAF Facilities. Without

1 limiting the generality of the foregoing, any FPL inspection of the USAF Generation Facility and/or
2 the USAF Facilities shall not be construed as confirming or endorsing its (their) design or its (their)
3 operating or maintenance procedures, nor as a warranty or guarantee as to the safety, reliability or
4 durability of either the USAF Generation Facility equipment or the USAF Facilities. FPL's inspection,
5 acceptance or its failure to inspect shall not be deemed an endorsement of any equipment or procedure
6 related to the USAF Generation Facility or the USAF Facilities, nor shall such inspection, acceptance
7 or failure to inspect affect USAF's liability to FPL for damages suffered by FPL or otherwise
8 recoverable by FPL.

9 **Section 12.03 - Waivers:** Any waiver at any time by either Party hereto of its rights with respect to
10 the other Party, or with respect to any matter arising in connection with this Agreement, shall not be
11 considered a waiver with respect to any subsequent default or matter.

12 **Section 12.04 - Successors and Assigns:** This Agreement shall inure to the benefit of, and shall be
13 binding upon, the Parties hereto and their respective successors and assigns; provided, however, this
14 Agreement shall not be assignable or transferable in whole or in part by either Party without the written
15 consent of the other Party, which consent(s) shall not be unreasonably withheld, except that such written
16 consent(s) shall not be required (i) in the case of an assignment or transfer to a successor in the
17 operation of the assignor's or transferor's properties by reason of a merger, consolidation, sale or
18 foreclosure, where substantially all such properties are acquired by such successor, or (ii) in the case
19 of an assignment or transfer of all or part of the assignor's or transferor's properties or interests to a
20 wholly-owned subsidiary of the assignor or transferor or to another company in the same holding
21 company as the assignor or transferor.

22 **Section 12.05 - Effect of Section Headings:** Article and Section headings appearing in this Agreement
23 are inserted for convenience of reference only and shall in no way be construed to be interpretations of
24 the text of this Agreement.

25 **Section 12.06 - Exhibits:** As used throughout this Agreement, the term "Agreement" shall include any
26 and all Exhibits hereto, as such Exhibits may be amended from time to time.

27 **Section 12.07 - Relationship of the Parties:** Nothing contained in this Agreement shall be construed
28 to create an association, joint venture, partnership or any other type of business entity between or
29 among FPL, USAF and/or any other party.

1 **Section 12.08 - No Dedication of the System:** Any undertaking by either Party to the other Party under
2 any provision(s) of this Agreement shall not constitute the dedication of the system, or any portion
3 thereof, of either Party to the public or to the other Party, and it is understood and agreed that any such
4 undertaking by either of the Parties shall cease upon termination of this Agreement.

5 **Section 12.09 - Notices:** Any notice contemplated by this Agreement shall be made in writing and shall
6 be delivered either in person, by prepaid telegram, by telex or facsimile transmission, by deposit in the
7 United States mail, first class, postage prepaid, or by prepaid overnight courier, as specified below:

8 In the case of FPL:

9 Florida Power & Light Company
10 Attention: Manager, Transmission Services
11 4200 West Flagler Street
12 Miami, Florida 33134
13
14
15

16 In the case of USAF:

17 UNITED STATES AIR FORCE
18 Attention: Contracting Officer
19 45th Contracting Squadron
20 1201 Edward H. White Boulevard
21 Building 423
22 Patrick Air Force Base, FL 32925
23

24 Other person(s) may be designated by FPL or USAF. Any Party's designation of the person(s) to be
25 notified or the address(es) of such person(s) may be changed by such Party at any time, or from time
26 to time, by similar notice.

27 **Section 12.10 - Complete Agreement:** This Agreement is intended as the exclusive, integrated
28 statement of the agreement between the Parties. This Agreement shall not be amended or modified, and
29 no waiver of any provision hereof shall be effective, unless set forth in a written instrument executed
30 by the Parties.

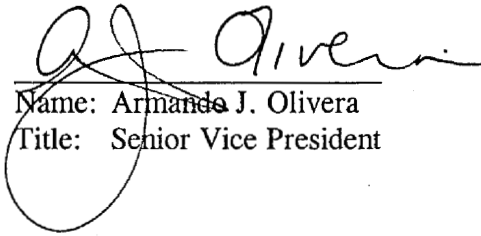
31 **Section 12.11 - Execution of Counterparts:** This Agreement may be executed in counterparts, each
32 of which shall be deemed an original, but all of which shall constitute one and the same Agreement.

1

(The next page is the signature page)

1 **IN WITNESS WHEREOF**, FPL and USAF have caused this Agreement to be
2 executed by their respective duly authorized representatives, effective as of the date and year
3 first above stated.

4
5 **FLORIDA POWER & LIGHT COMPANY**

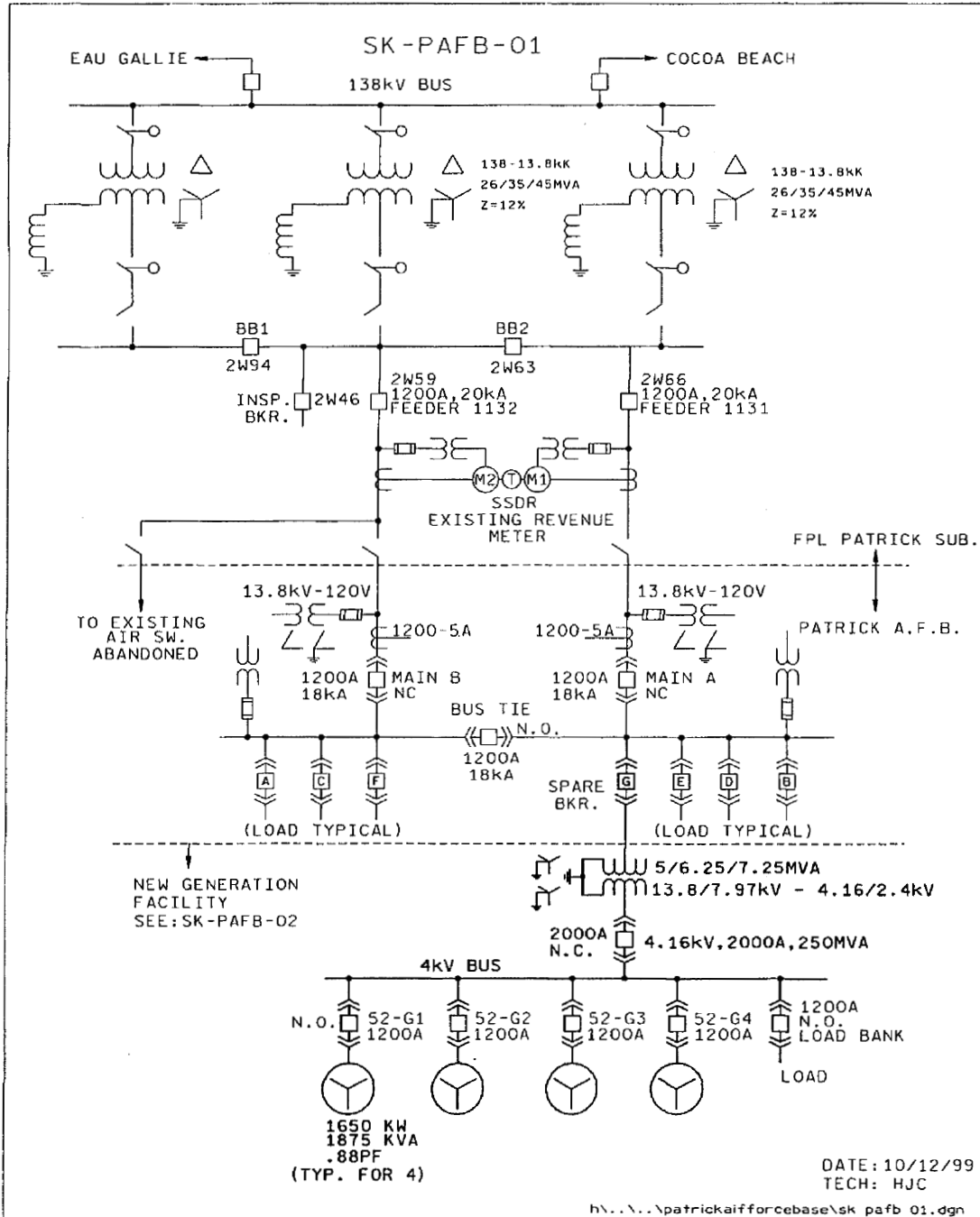
6
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8 By: 
9 Name: Armando J. Olivera
10 Title: Senior Vice President

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12
13
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16
17
18 **UNITED STATES AIR FORCE**

19
20 
21 **JIMMY L. McDANIEL**
22 Contracting Officer
23
24

**INTERCONNECTION AGREEMENT
 BETWEEN FLORIDA POWER & LIGHT COMPANY
 AND UNITED STATES AIR FORCE
 EXHIBIT A**

INTERCONNECTION CONFIGURATION



**INTERCONNECTION AGREEMENT
BETWEEN
FLORIDA POWER & LIGHT COMPANY
AND THE
UNITED STATES AIR FORCE**

EXHIBIT B

INTERCONNECTION FACILITIES TO BE PROVIDED BY FPL

Relay Panel with following protective equipment:

- 1- Beckwith relay M-3420
- 2- Beckwith relay M-3430
- 3- Basler relays BE1- 27/59
- 4- GE SAM timer
- 5- Agstat timers
- 6- Auxiliary relays
- 7- Indicating lights

**INTERCONNECTION AGREEMENT
BETWEEN
FLORIDA POWER & LIGHT COMPANY
AND THE
UNITED STATES AIR FORCE**

EXHIBIT C

ESTIMATE OF INTERCONNECTION COSTS

The estimate of the costs and expenses FPL expects to incur for designing, engineering, modifying, upgrading, installing and constructing the Interconnection Facilities pursuant to this Agreement is approximately \$ 93,323.

**INTERCONNECTION AGREEMENT
BETWEEN
FLORIDA POWER & LIGHT COMPANY
AND THE
UNITED STATES AIR FORCE**

EXHIBIT D

USAF OPERATING PROCEDURE

SEQUENCE OF OPERATIONS

For CILC Mode

**Patrick Air Force Base Power Plant, Patrick Air Force Base,
Florida**

Overview of System Operations:

Figure E1 provides the electrical system one-line diagram for the Patrick Air Force Base (USAF's PAFB Premises) Power Plant.

Utility power is normally supplied to the existing USAF's PAFB Premises main 13.8KV switchgear from FPL's Patrick Substation via two radial 13.8KV feeder cables, feeder # 1131 and feeder #1132. These 13.8KV supply cables are connected to breakers #2W66 and #2W59 respectively which are located in FPL's Patrick substation. The main 13.8KV bus is a double ended switchgear lineup with two normally closed main breakers, one normally open tie breaker, and multiple normally closed feeder breakers on Bus A and Bus B.

Upon interruption of utility power, the USAF Power Plant will isolate the main USAF 13.8KV buses A and B from utility power and energize the mission critical loads being served by Bus A and B. Upon return of utility power, the USAF power plant control system will synchronize and parallel with utility power, offload/de-energize generators, and perform a bumpless, (no voltage fluctuation, no harmonics, no loss of power), retransfer of utility power to USAF South Substation loads.

When CILC support is required, the USAF Power Plant will generate and deliver 6.6 MW, 7.5MVA to the South USAF Substation Load. Because the USAF loads are distributed across both Bus A and Bus B; a rapid, make-before-break transfer of supply from Bus B to Bus A (or Bus A to Bus B) must be performed prior to activating the CILC mode.

Interlocks are included within the new USAF power plant control system (furnished as part of the USAF Power Plant project) to prevent paralleling of the FPL 13.8KV radial

feeders #1131 and #1132 and their associated transformers, except as noted above.

Sequence of Operations for the power plant control modes are described below. The USAF Power Plant Control System (PCS) will be furnished and programmed to perform the described plant control modes.

A. Normal Operations

Utility power is normally supplied from FPL's Patrick Substation via two radial feeders #1131 and #1132 to normally closed breakers Main A and Main B at the existing USAF main 13.8KV switchgear. Bus A and Bus B are connected by means of a normally open Tie-Breaker AB.

USAF Power Plant 5KV bus is normally energized via 13.8KV breaker G, 13.8-4.16KV transformer, and normally closed breaker 52M1.

USAF plant generators off with associated breakers normally open.

All Plant control system AUTO/MANUAL switches in AUTO.

B. Loss of Utility Power – Plant in AUTO/HOT STANDBY MODE

Utility power voltage loss sensed by voltage transformers at line side of Main A and Main B breakers and a Under-voltage Relay & Phase-sequence Voltage Relay devices furnished with the USAF Plant control system.

Upon loss of utility power, plant control system opens Main A and Main B breakers, Breaker G, and 52M1.

After verifying above breakers are open, Tie Breaker AB is closed, all available plant generators are started, synched, and paralleled to re-energize the plant 5KV bus. Note if plant control system (PCS) cannot verify above breakers are in proper open/closed positions, then plant goes into ALARM and STANDBY mode will not be activated.

PCS closes 52M1 and Breaker G after synch check verification via Synchronizing device, and plant energizes Bus A and Bus B loads via closed Tie-Breaker AB.

After return of utility power: PCS will synchronize and parallel with utility across Main A breaker (or Main B breaker), unload/de-energize plant generators, open generator breakers, retransfer Bus B (or Bus A) loads (requires closing Main B or Main A breaker and opening tie breaker AB), and restores plant to Normal operations.

C. PLANT CILC Automatic Mode – Exporting 6.6 MW to South USAF Substation

Plant must be in Normal/AUTO mode before CILC can be activated.

FPL sends the CILC Alert signal to Annunciators located at the USAF Energy Management Control Room and the USAF Power Plant. The CILC control mode will be activated in no less than 15 minutes after a USAF Operator acknowledges the CILC ALERT at the CILC Annunciator box.

CILC mode is activated after receipt of signal from FPL CILC control panel located at USAF Power Plant. A dry contact CILC signal will be wired into the Plant Control System.

Upon activation of CILC mode, at existing USAF main 13.8KV switchgear: Tie breaker AB is closed, Main A breaker remains closed, and Main B breaker is opened

approximately 12 cycles after closing Tie breaker AB. This operational feature will provide a make-before-break transfer of power from Bus B to Bus A without interrupting service to the mission critical loads at the USAF main 13.8KV switchgear.

The Plant control system shall also be able to perform a make-before-break power transfer from Bus A to Bus B. The following high speed interlocks and controls will be incorporated into the Plant control system to implement this control feature:

Synch check is verified across Tiebreaker AB before closing of breaker AB, else CILC mode aborted.

Main Breaker B (or Main Breaker A) is verified to be opened after closing of Tie Breaker AB to limit paralleling time between FPL Feeders #1131 and #1132 to a maximum of 12 cycles, else trip Tie Breaker AB to abort CILC mode and restore USAF main 13.8KV switchgear and Power plant to normal supply configuration.

Alarms will be presented at the USAF Energy Management Control Room computer station upon failure to activate the CILC mode.

Upon activation of CILC mode with Main A (or Main B) breaker closed, Tie Breaker AB closed, and Main B (or Main A) breaker opened; all of the plant generators will be started and the Plant Control System will synchronize and parallel one of the generators with FPL utility power via the generator circuit breaker. Zero power is being exported at this time.

The FPL Interconnection Protection and Control system will be activated anytime the generation plant is operating in parallel with Utility power (see note 1 below).

The remaining plant generators will be synchronized and paralleled in a similar fashion until all generators are on line with the plant exporting zero power. The plant generators will be operating in an isochronous load sharing, power factor control mode at this time.

After verification that all generators available, utility power present, system breakers and switches is their required positions, no alarm conditions, and no protective trip conditions, the PCS will automatically export 6.6 MW to South USAF Substation Load. Plant will continue to export 6.6 MW to South USAF Substation Load until CILC Activate signal is removed.

Upon removal of the CILC Activate signal, the following sequences will be performed: Plant control system will offload plant generators and take all generators offline via their respective circuit breakers (Note: Breakers G at USAF main 13.8KV switchgear and main plant breaker 52M1 will remain closed to sustain 'HOT' plant bus operating practice)

Synch check is verified across Main B (or Main A) breaker before closing of Main B (or Main A) breaker, else an incomplete transfer alarm is presented at USAF Energy Management Control Room computer station.

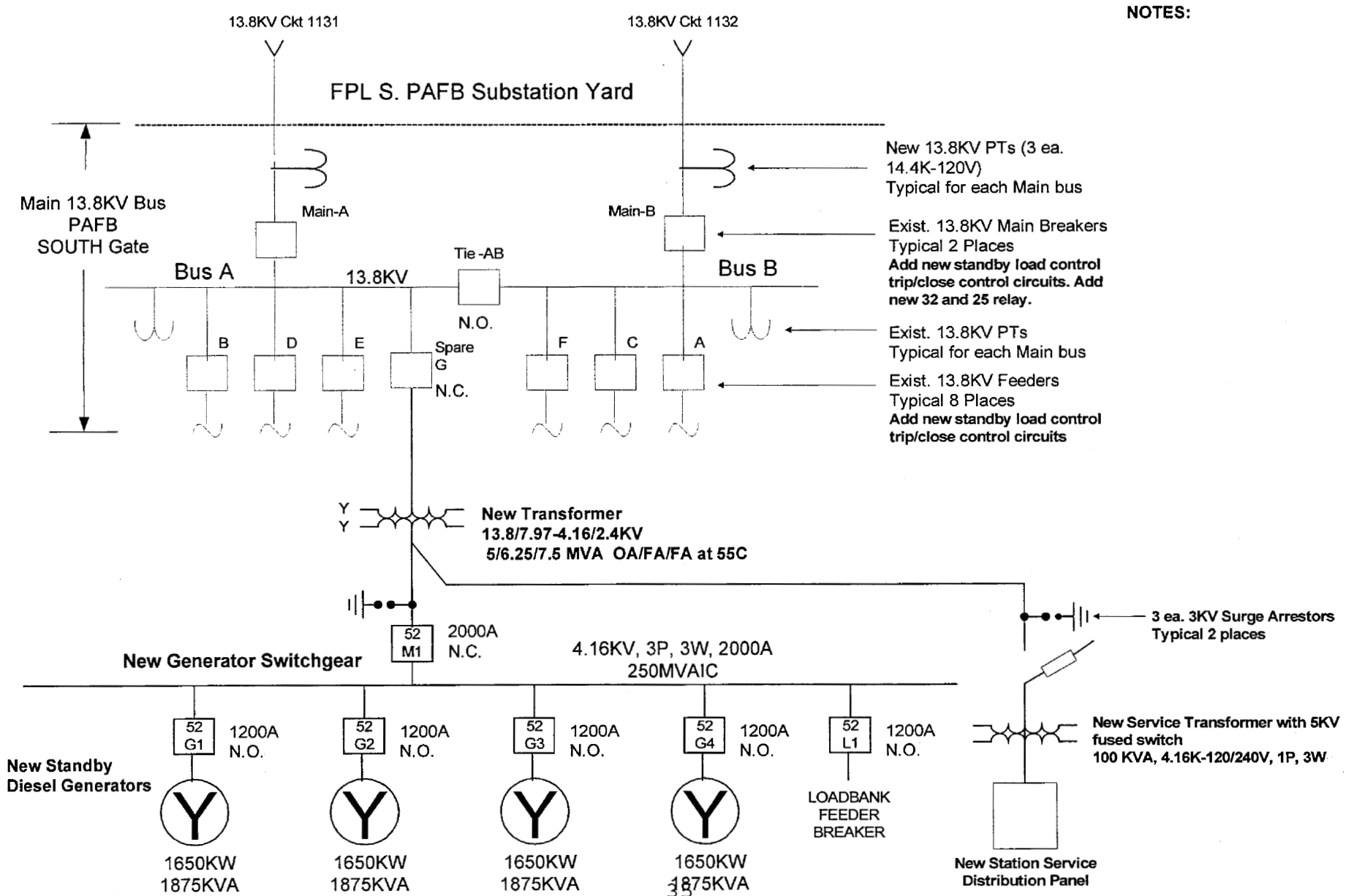
Tie Breaker AB is verified to be opened after closing of Main B (or Main A) Breaker to limit paralleling time between FPL Feeders #1131 and #1132 to a maximum of 12 cycles, else trip Main B (or Main A) Breaker and abort retransfer of Bus A supply to Bus B. Alarms will be presented at the USAF Energy Management Control Room computer station.

Return plant to Normal operating mode.

Implementation Notes:

FPL is providing a Protection and Control (P&C) system relay panel as part of the USAF Power Plant CILC Upgrade project. The FPL P&C panel will monitor for power system disturbances while the Power Plant is interconnected to the FPL Utility grid. Upon detection of any system disturbance, the primary protection mode of the P&C panel will automatically disconnect all FPL utility interties (FPL's breakers 2W66 & 2W59, and USAF Main Breakers A and Main Breaker B). This measure will enable isolation of a Utility-side power system disturbance and allow the USAF Power Plant to sustain backup power to mission critical loads being supplied from the USAF main 13.8KV switchgear. The FPL P& C system will shutdown the USAF Power Plant and open breakers G and 52M1 if Utility tie breakers (Breaker 1131 and Main Breaker A or Breaker 1132 and Main Breaker B) fail to trip when called upon during a P&C primary protection mode event.

Figure E1: Patrick AFB CILC Power Plant Upgrade



NOTES: