

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

**In re: Petition to Establish
Discovery Docket Regarding
Actual and Projected Costs for
Levy Nuclear Project, by Progress
Energy Florida, Inc.**

DOCKET NO. 080149

Submitted for filing:
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**SUPPLEMENTAL DIRECT TESTIMONY OF DALE OLIVER
IN SUPPORT OF SITE SELECTION COSTS,
ACTUAL/ESTIMATED AND PROJECTED COSTS**

**ON BEHALF OF
PROGRESS ENERGY FLORIDA**

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**IN RE: PETITION TO ESTABLISH DISCOVERY DOCKET REGARDING
ACTUAL AND PROJECTED COSTS FOR LEVY NUCLEAR PROJECT BY
PROGRESS ENERGY FLORIDA, INC.**

FPSC DOCKET NO. 080149

**SUPPLEMENTAL DIRECT TESTIMONY OF DALE OLIVER
IN SUPPORT OF SITE SELECTION COSTS,
ACTUAL/ESTIMATED AND PROJECTED COSTS**

1 **I. INTRODUCTION AND SCOPE OF TESTIMONY**

2 **Q.** **Please state your name.**

3 **A.** My name is Dale Oliver.

4
5 **Q.** **Did you file Direct Testimony on May 1, 2008 in this docket?**

6 **A.** Yes, I filed two sets of direct testimony in support of PEF's site selection
7 costs and its actual/estimated and projected costs, specifically for the
8 transmission portions of the Levy nuclear generation project.

9
10 **Q.** **Why are you filing supplemental testimony to this direct testimony?**

11 **A.** I am supplementing my direct testimony to provide additional information
12 regarding the Company's site selection, actual/estimated, and projected
13 costs in the Nuclear Filing Requirements ("NFRs") filed on May 1, 2008.
14 Rather than filing two sets of supplemental testimonies, this one testimony
15 will supplement both of my testimonies filed May 1. Because my May 1
16 actual/estimated and projected testimony provided information regarding
17 the Company's transmission contracts, I will not be including information

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1 as to those contracts in this testimony. I will also provide supplemental
2 testimony regarding PEF's reasonable and prudent project management
3 policies and procedures, designed to manage transmission project costs
4 and maintain the project schedule.

5
6 **II. SITE SELECTION COSTS INCURRED PRIOR TO**
7 **MARCH 11, 2008 FOR LEVY NUCLEAR PLANT**
8

9 **Q. Has the Company incurred transmission-related site selection costs**
10 **for the Levy Nuclear Plant?**

11 **A.** Yes, PEF incurred site selection costs for transmission in 2007 and 2008.
12 As reflected in Schedule SS-6 of Ms. Cross' Exhibit LC-4, the 2007 site
13 selection costs are broken down into three categories: Line Engineering
14 \$2 million ("M"); Substation Engineering \$171 thousand ("K"); and Other
15 \$866K.

16 As reflected in Schedule SS-6 of Ms. Cross' Exhibit LC-5, the
17 2008 site selection costs are broken down into three categories: Line
18 Engineering \$222K; Substation Engineering \$10K, and Other \$685K.

19
20 **Q. For the Line Engineering costs you identified, please describe what**
21 **these costs are and explain why the Company had to incur them.**

22 **A.** These costs include the conceptual engineering design costs of the
23 transmission lines. This engineering work identified the size, type, and

1 general location of various options for the transmission lines necessary to
2 incorporate the Levy nuclear power plants into the PEF transmission
3 system and the state-wide electric grid. Identification of the size, type,
4 and general location of various transmission line and facility options for
5 the Levy nuclear project was necessary to perform a study to evaluate the
6 cost, reliability, and other factors associated with selecting the most
7 appropriate option to successfully and reliably add the Levy nuclear power
8 plants to the PEF transmission system and the state-wide electric grid.
9 This work also allowed the Company to determine the initial scope of the
10 expected necessary new system lines and line upgrades to accommodate
11 the additional power from Levy Units 1 and 2 on PEF's system.

12 These Line Engineering costs were incurred in 2007 and 2008 to
13 maintain the project schedule for the 2016 in-service date of Levy Unit 1
14 and the 2017 in-service date of Levy Unit 2. Such work was and is
15 necessary to identify and select the appropriate transmission corridor, and
16 to prepare the necessary corridor and transmission line and facility
17 information for the submission of the Combined Construction and
18 Operating License Application ("COLA") to the Nuclear Regulatory
19 Commission ("NRC") and the Site Certification Application ("SCA") to
20 the Florida Department of Environmental Protection ("FDEP"). Both
21 applications must address and generally describe the transmission
22 corridors and the necessary transmission system facilities and upgrades for
23 the Levy nuclear power plants. The Company submitted the SCA to

1 FDEP on June 2, 2008 and plans to submit the COLA to the NRC this
2 year. The Company had to incur these costs at this time to ensure that
3 these applications were completed and the schedule maintained so that the
4 necessary transmission infrastructure is in place prior to the expected
5 commercial in-service dates for the Levy units and the planned in-service
6 dates for Levy Units 1 and 2 are met.

7
8 **Q. For the Substation Engineering costs you identified, please describe**
9 **what these costs are and explain why the Company had to incur them.**

10 **A.** These costs include the conceptual engineering design for substations.
11 This work was necessary to identify the number of substations, their
12 general location, size, and equipment needs, required to incorporate the
13 Levy nuclear power plants into the PEF transmission system and the state-
14 wide electric grid under the various transmission option corridors
15 considered.

16 These substation engineering costs were incurred in 2007 and 2008 to
17 maintain the project schedule for the 2016 in-service date of Levy Unit 1
18 and the 2017 in-service date of Levy Unit 2. Such work was and is
19 necessary to identify and select the appropriate substation sites, and to
20 prepare the necessary transmission facility information for the submission
21 of the COLA to the NRC and the SCA to the FDEP. As I explained
22 above, both applications must address and generally describe the
23 necessary transmission system facilities and upgrades for the Levy nuclear

1 power plants. The Company submitted the SCA to FDEP on June 2, 2008
2 and plans to submit the COLA to the NRC this year. The Company had to
3 incur these costs at this time to ensure that these applications were timely
4 completed and the schedule maintained so that the necessary transmission
5 infrastructure is in place prior to the expected commercial in-service dates
6 for the Levy units and the planned in-service dates for Levy Units 1 and 2
7 are met.

8
9 **Q. There are "Other" costs identified, can you please describe them and**
10 **explain why the Company had to incur them?**

11 **A.** These costs include project management and related overhead and
12 miscellaneous costs associated with planning and siting the transmission
13 projects for the Levy Nuclear Project. To illustrate, these costs include
14 PEF's costs under its contract with its corridor consultant to provide
15 assistance with selecting a transmission corridor, public outreach, and
16 obtaining necessary licensing from the NRC and the FDEP. These costs
17 also include the work required to prepare the corridor study to identify the
18 preferred corridors for the necessary new transmission lines. In preparing
19 this corridor study the Company incurred costs to address and prepare
20 findings on land use planning, design, environmental, system planning,
21 and real estate acquisition issues. Also, the Company incurred costs
22 working with the public and government agencies to incorporate their

1 comments into the corridor study and include their input in the selection of
2 the preferred transmission corridors.

3 These costs were necessary to maintain the project schedule for the
4 2016 in-service date of Levy Unit 1 and the 2017 in-service date of Levy
5 Unit 2. The Company has selected the transmission corridors needed to
6 support the Levy nuclear project. Also, such costs were necessary for the
7 transmission information that must be included in the COLA submitted to
8 the NRC and the SCA submitted to the FDEP. As I explained above, both
9 applications must address and generally describe the transmission
10 corridors and the necessary transmission system facilities and upgrades for
11 the Levy nuclear power plants. The Company had to incur these costs at
12 this time to ensure that these applications were completed and that the
13 schedule for the Levy nuclear project is maintained.

14
15 **III. TRANSMISSION PRECONSTRUCTION ACTIVITIES**

16 **Q. What costs has PEF included in this filing for transmission**
17 **preconstruction costs?**

18 **A.** PEF has filed actual/estimated 2008 and projected 2009 preconstruction
19 costs for transmission for the Levy Nuclear Plant as of May 1, 2008.
20 Schedule AE-6 of Exhibit LC-1 shows transmission preconstruction costs
21 for 2008 actual/estimated in the following categories: Line Engineering
22 \$6M; Substation Engineering \$6M; and Other, about \$1M. Schedule P-6
23 of Exhibit LC-2 breaks down the 2009 projected transmission

1 preconstruction costs into the following categories: Line Engineering
2 \$13M; Substation Engineering \$13M; Clearing \$3M; and Other \$3M.

3
4 **Q. Please describe what the projected preconstruction Line Engineering**
5 **costs are and explain why the Company has to incur them.**

6 **A.** These costs include the continued conceptual and preliminary engineering
7 design and engineering detail work for the transmission lines that will
8 support the Levy Units and for other lines on PEF's system that must be
9 enhanced to efficiently and effectively handle the additional power flow
10 on the system as the result of the addition of the Levy Units. Examples of
11 the costs are preliminary engineering work for route selection and route
12 selection costs, including associated costs for engineering studies.

13 These preconstruction Line Engineering costs are necessary to
14 complete the work for the transmission information included in the COLA
15 and the SCA for the Levy Nuclear Project. These preconstruction costs
16 are also necessary to maintain the project schedule, which currently calls
17 for all transmission facilities to be designed, constructed, and operational
18 in time for the expected commercial in-service of Levy Unit 1 in June
19 2016.

20
21 **Q. Please describe what the preconstruction Substation Engineering**
22 **costs are and explain why the Company has to incur them.**

1 **A.** These costs include the continued conceptual and preliminary engineering
2 design and engineering detail work for the substations required to support
3 the Levy Units. These Substation Engineering preconstruction costs are
4 necessary to complete the work for the transmission information included
5 in the COLA and the SCA for the Levy Nuclear Project. These
6 preconstruction costs are also necessary to maintain the project schedule,
7 which currently calls for all transmission facilities to be designed,
8 constructed, and operational in time for the expected commercial in-
9 service of Levy Unit 1 in June 2016.

10
11 **Q.** **Please describe the Clearing costs and explain why the Company**
12 **needs to incur them.**

13 **A.** These costs include costs associated with clearing acquired rights of way
14 (“ROW”) for the construction of the transmission lines required to support
15 the Levy Units and the costs associated with clearing the ROWs to ensure
16 access for transmission construction. These Clearing costs are necessary
17 to complete the work to prepare the ROWs and easements for the
18 transmission facilities required to support the Levy Units. These
19 preconstruction costs are also necessary to maintain the project schedule,
20 which currently calls for all transmission facilities to be designed,
21 constructed, and operational in time for the expected commercial in-
22 service of Levy Unit 1 in June 2016.

1 **Q. Please describe what the Other category of preconstruction costs**
2 **include and explain why the Company needs to incur them.**

3 **A.** These costs include project management and related overhead and
4 miscellaneous costs associated with planning and siting the transmission
5 projects for the Levy Nuclear Project. Such costs include public outreach,
6 project scheduling, and development of contracting strategies. All of these
7 other preconstruction costs are necessary to complete the work for the
8 transmission information included in the COLA and the SCA for the Levy
9 Nuclear Project. These costs are also necessary to maintain the project
10 schedule.

11
12 **Q. Please describe briefly how the transmission preconstruction cost**
13 **estimates were prepared.**

14 **A.** PEF developed these Line Engineering, Substation Engineering, Clearing,
15 and Other preconstruction cost estimates on a reasonable engineering
16 basis, using the best available engineering and utility market information
17 at the time, consistent with utility industry and PEF practice. These cost
18 estimates used preliminary transmission project plans and project
19 schedules to determine what transmission preconstruction work will be
20 done and when it will be done to achieve the necessary project milestones
21 and maintain the expected in-service dates for the Levy Units. The
22 estimates in the May 1, 2008 NFRs were prepared early in the process for
23 the Levy Nuclear Project and, as a result, they include levels of

1 uncertainty and are subject to change as the transmission projects and
2 work on those projects become more developed, corridors or project sites
3 are selected, the location of facilities within corridors and on sites are
4 determined, clearing work is better defined, engineering work is refined,
5 and construction begins. The preconstruction transmission cost estimates
6 are, therefore, changing for these reasons.

7
8 **IV. TRANSMISSION CONSTRUCTION ACTIVITIES**

9 **Q. What costs has PEF included in this filing for transmission**
10 **construction costs?**

11 **A.** PEF has actual/estimated 2008 and projected 2009 Construction costs for
12 transmission for the Levy Nuclear Plant as of May 1, 2008. Schedule AE-
13 6 of Exhibit LC-1 shows transmission construction costs for 2008
14 actual/estimated in the following categories: Substation Engineering \$2M;
15 Real Estate Acquisition \$3M; Substation Construction \$2M; and Other
16 \$837K. Schedule P-6 of Exhibit LC-2 breaks down the 2009 projected
17 transmission construction costs into the following categories: Line
18 Engineering \$4M; Substation Engineering \$29M; Real Estate Acquisition
19 \$54M; Line Construction \$7M; Substation Construction \$32M; and Other
20 \$13M.

21
22 **Q. Please describe the Line Engineering construction costs and explain**
23 **why the Company needs to incur them.**

1 **A.** These construction costs include the necessary engineering supervision
2 and engineering support for the actual construction work to install
3 transmission lines and transmission line upgrades necessary for the
4 addition of the Levy Units to PEF's transmission system. These costs are
5 necessary to ensure that the transmission lines and transmission line
6 upgrades required to support the Levy Units on PEF's transmission system
7 are installed when needed to maintain the project schedule for the 2016 in-
8 service date of Levy 1.

9
10 **Q.** **Please describe what the Substation Engineering construction costs**
11 **are and explain why the Company needs to incur them.**

12 **A.** These costs include the necessary engineering supervision and engineering
13 support for the actual substation construction work required for the
14 addition of the Levy Units to PEF's transmission system. These costs are
15 necessary to ensure that the transmission substations required to support
16 the Levy Units on PEF's transmission system are installed when needed to
17 maintain the project schedule for the 2016 in-service date of Levy 1.

18
19 **Q.** **Please describe the Real Estate Acquisition costs and explain why the**
20 **Company needs to incur them.**

21 **A.** These costs include the estimated land and ROW acquisition costs
22 necessary for the transmission facilities to support the addition of the Levy
23 Units to PEF's system. These costs include the siting, survey, appraisal,

1 title commitments, permitting, legal and related costs, ordinance review,
2 and actual purchase costs for the land and easements necessary for the
3 transmission facilities for the Levy Nuclear Project. These costs are
4 necessary to ensure that the ROWs and other land upon which the
5 transmission facilities will be located are available when needed to
6 maintain the project schedule for the 2016 in-service date of Levy 1.
7

8 **Q. Please describe the Line Construction costs and explain why the**
9 **Company needs to incur them.**

10 **A.** These costs include the contracted construction labor, the transmission
11 poles, structures, and other material costs, equipment, and all other costs
12 associated with actual construction of the transmission lines and
13 transmission line upgrades. These costs are necessary to begin
14 construction of the actual transmission lines and transmission line
15 upgrades that are necessary to support the addition of the Levy Nuclear
16 Units to PEF's system.
17

18 **Q. Please describe the Substation Construction costs and explain why the**
19 **Company needs to incur them.**

20 **A.** These costs include construction labor, substation structures and other
21 substation materials, substation equipment, and all other costs associated
22 with substation, protection, and control (relay) construction. These costs
23 are necessary to begin construction of the actual transmission substations

1 that are necessary to support the addition of the Levy Nuclear Units to
2 PEF's system.

3
4 **Q. Please describe what the Other costs are and explain why the**
5 **Company needs to incur them.**

6 **A.** These costs include the project management and related overhead and
7 miscellaneous costs associated with the transmission projects for the Levy
8 Nuclear Project. Such costs include public outreach, project scheduling,
9 and development of contracting strategies. These other construction costs
10 are necessary to maintain the project schedule, which currently calls for all
11 transmission facilities to be designed, constructed, and operational in time
12 for the expected commercial in-service of Levy Unit 1 in June 2016.

13
14 **Q. Please describe briefly how the transmission construction cost**
15 **estimates were prepared.**

16 **A.** PEF developed these Line Engineering, Substation Engineering, Real
17 Estate Acquisition, Line Construction, Substation Construction, and Other
18 transmission construction cost estimates on a reasonable engineering
19 basis, using the best available construction and utility market information
20 at the time, consistent with utility industry and PEF practice. These
21 estimates used preliminary transmission project plans and project
22 schedules to determine what transmission construction work will be done
23 and when it will be done to achieve the necessary project milestones and

1 maintain the expected in-service dates for the Levy Units. The estimates
2 in the May 1, 2008 NFRs were prepared early in the process for the Levy
3 Nuclear Project and, as a result, they include levels of uncertainty and are
4 subject to change as the transmission projects and transmission work on
5 those projects become more developed, corridors or project sites are
6 selected, the location of facilities within corridors and on sites are
7 determined, engineering work becomes more detailed, and construction
8 commences. For the above reasons, the project costs will continue to
9 change throughout the project. PEF will keep the Commission informed
10 of these changes through the annual NFR filing process.

11
12 **V. PROJECT MANAGEMENT AND COST CONTROL OVERSIGHT**

13 **Q. Has the Company implemented any project management or cost**
14 **control oversight mechanisms for the transmission portion of the Levy**
15 **Nuclear project?**

16 **A.** Yes. The Company is using numerous existing policies and procedures to
17 ensure that the transmission costs for the Levy Nuclear project are
18 prudently incurred and that the project remains on schedule. The
19 transmission projects associated with the Levy Nuclear Project are subject
20 to the same overall Company management as the generation side of the
21 Levy Nuclear Project that is discussed in the testimony of Mr. Roderick.
22 This is accomplished through the Company's Integrated Project Plan for
23 the Levy Nuclear Project. Consequently, the Company's Project

1 Evaluation and Authorization Process, Project Governance Policy, and
2 Project Manual apply to the transmission projects required to support the
3 addition of the Levy nuclear units to PEF's system under the Levy Nuclear
4 Project.

5 Also, the transmission projects and work for the Levy Nuclear
6 Project comply with the Project Assurance Program Policy and the Project
7 Assurance Program Manual, which implement procedures to identify and
8 document key project decisions. Similarly, the Document Management
9 System for Generation & Transmission Construction Department is used
10 to manage the documents associated with the transmission work for the
11 Levy Nuclear Project.

12 To maintain control over the transmission projects and related
13 work, a detailed schedule is maintained and regularly updated. The
14 schedule defines the transmission task order, specific time frame allocated
15 to the task, and the task start and finish dates. The schedule is used to
16 provide management with timely information necessary to make decisions
17 related to the transmission work for the Levy Nuclear Project. The
18 schedule also allows the Company to coordinate transmission work for the
19 Levy Nuclear Project with internal Company departments such as
20 engineering, construction, Energy Control, and the generating stations,
21 among others. The schedule further serves as a link between the Company
22 and the Company's contractors and a management tool with the outside
23 contractors. Various levels of supporting schedules are also developed

1 and used throughout the course of the transmission projects for the Levy
2 Nuclear Project.

3 Other corporate tools will support the management of the
4 transmission work for the Levy Nuclear Project. The Oracle Financial
5 Systems/Business Objects reporting tool provides monthly corporate
6 budget comparisons to actual cost information, as well as detailed
7 transaction information. This information, along with other financial
8 accounting data, will allow us to regularly monitor the costs of the
9 transmission work compared to the budget and make decisions
10 accordingly to see to it that the costs incurred are reasonable and prudent
11 for the work obtained. Similarly, we will use the PassPort system under
12 the Contract Development and Administration Policy to manage contracts
13 for transmission work on the Levy Nuclear Project. This system routes
14 contracts for approval, including contract amendments and work
15 authorizations, and facilitates routing and approval of contractor invoices
16 and payments.

17
18 **Q. What procedures are used by PEF to ensure the reasonable and**
19 **prudent selection of contractors and vendors for the transmission**
20 **projects for the Levy Units?**

21 **A.** PEF typically uses bidding procedures, through Requests for Proposals
22 (“RFP”), to ensure that the chosen contractors and vendors provide the
23 best value for PEF’s customers. RFPs cannot always be used, however, to

1 obtain services or materials. When deciding to use a sole source
2 contractor or vendor, PEF provides sole source justifications for not doing
3 an RFP for the particular work or material. When PEF contracts with sole
4 source contractors or vendors PEF further ensures that the contracts
5 contain reasonable and prudent contract terms with adequate pricing
6 provisions (including fixed price and/or firm price escalated according to
7 indexes, where possible).

8 Sole source contractor or vendor relationships are sometimes
9 necessary to provide the services or materials at all or at the most
10 reasonable cost under the circumstance. To illustrate, in some instances,
11 the particular contractor or vendor has particular experience with the plant
12 or the work required, thus making it advantageous for that vendor to
13 accomplish the work.

14
15 **Q. Does PEF have any mechanisms in place to ensure that the policies**
16 **and procedures described above are effective?**

17 **A.** Yes, PEF uses internal auditing to verify that its program management and
18 cost oversight controls are effective. These internal audits occur regularly
19 for large projects like the Levy transmission projects. Recommendations
20 and results from Internal Audit reviews are provided to management as
21 well as members of the project team for continuous improvement.

22 Also, the Levy Integrated Nuclear Committee ("LINC") reviews
23 key milestones, cost and emergent issue information related to both the

1 Generation and Transmission portions of the project on a regular basis.
2 This Committee was chartered by Senior Management and the PEF Board
3 to manage all aspects of planning and execution of the Levy Nuclear
4 Project, with clear accountability in functional areas along each phase
5 from design to commercial operation. The LINC serves as a means to
6 ensure proper coordination and appropriate documentation of activities
7 that cross multiple organizational boundaries.

8 Additionally, monthly summary report information is provided to
9 members of Progress Energy Senior Management that highlights financial,
10 schedule, and current issue information. This information is provided in
11 summary format to the Company's Board of Directors on a quarterly
12 basis.

13 On-going funding and project review for the transmission projects
14 in the Levy Nuclear Project is prepared on a periodic basis for members of
15 Senior Management and presented as an Integrated Project Plan ("IPP") in
16 accordance with the Company's Capital Projects guidance. Detailed
17 project cost and schedule information is monitored regularly by the project
18 management and cost management personnel within the functional
19 department, and monthly reviews of the project status are presented to the
20 Department Vice President. Finally, project assurance support personnel
21 assigned specifically to the project are involved in all key meetings and
22 decision-making discussions.

23

1

Q. Does this conclude your testimony?

2

A. Yes, it does.

3