Florida Power & Light Company, Environmental Services Dept., P.O. Box 14000, Juno Beach, FL 33408

FPL

November 8, 2006



Trina Vielhauer
Florida Department of Environmental Protection
Division of Air Resources Management
Bureau of Air Regulations, Bureau Chief
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Re: **FPL Turkey Point Expansion Project**
**PA 03-45 Conditions of Certification & PSD-FL-338**
**Cooling Tower Drift Certification**

Dear Ms. Vielhauer,

FPL's Turkey Point Expansion Project Condition of Certification XXVIII.C. 4. and Prevention of Significant Deterioration (PSD) permit PSD-FL-338 Section III. C. 2. read as follows:

> "Within 60 days of commencing operation, the licensee shall certify that the cooling tower was constructed to achieve the specified drift rate of no more than 0.0005 percent of the circulating water flow rate."

In accordance with these conditions, FPL is hereby submitting the drift certification letter provided by GEA Power and Cooling, Inc.

Please let me know if you have any questions and/or require additional information. You can reach me at (561) 691-7518.

Sincerely,

Barbara P. Linkiewicz

Environmental Licensing Manager
Florida Power & Light Company

cc: Darrel Graziani, DEP Southeast District Office
Errin Pichard, DEP Division of Air Resource Management
Laxamana Tallam, DEP Southeast District Office
Lee Hefty, DERM
Luis Otero, DERM
Steven Palmer, DEP Siting Office

GEA Power Cooling, Inc.

143 Union Blvd., Suite 400
Lakewood, Colorado 80228
Telephone: (303) 987-0123
Facsimile: (303) 987-0101

April 27, 2005

Mr. Dale Woltman
Florida Lakes Power Partners
c/o Black & Veatch Corporation
11401 Lamar Avenue
Overland Park, KS 66211

Subject: Turkey Point Expansion Project
Homestead, Florida
Subcontract Number 138729.62.0601
GEA Job Number 05-003

Dear Mr. Woltman:

GEA Power Cooling, Inc. hereby certifies that the cooling tower provided at the Turkey Point Expansion Project has been designed and constructed in accordance with the drift rate guarantee as specified in Subcontract Number 138729.62.0601.

Should you have any questions or require additional information, please do not hesitate to contact me at your convenience.

Very truly yours,

Jason Nesseth
Project Manager

cc: A. Atherton
T. Farber

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|---|---|
| Lightning protection system (specified in the attached Technical Specification) | Yes |
| Erection (specified herein and in the attached Technical Specification) | Yes |

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|---|---|
| Tower type | Rectangular, Multi-Cell, Counter Flow, Induced Mechanical Draft |
| Structural framework material | Fiberglass |
| Circulating water quality | Saltwater from ground - See Attachments 5 and 6 |
| Cooling tower orientation | Long Axis of Tower is East-West |
| Cooling tower arrangement | Back to Back (Maximum area 650'-0" x 100'-0") |
| Cooling tower fill media type | Low Clog Vertically Fluted Film Fill - GEA AFE-20 |

The selected fill shall have a minimum of 10 years of successful in service operation. The Supplier shall provide a sample of the selected fill to the Purchaser for review.

Economic evaluation of proposals will be made on the basis of the following costs:

| | |
|---|---|
| Fan motor auxiliary power, per kW | $2034 per kW For Each kW in Excess of 3,350 kW |
| Tower pumping head, per ft $H_2O$ | $140,400 per foot For Each Foot of Pumping Head in Excess of 42.0 Feet. |
| Design conditions, each tower | |
| Inlet circulating water flow, gpm | 296,800 |
| Inlet circulating water temperature, °F | 105.6 |
| Outlet circulating water temperature, °F | 87.0 |
| Ambient wet-bulb temperature, °F | 79.1 |
| Inlet wet-bulb temperature, °F | 81.1 |
| Ambient dry-bulb temperature, °F | 95.00 |
| Drift, maximum percent of inlet circulating water flow | 0.0005 |
| Off-design conditions, each tower | |
| Inlet circulating water flow, gpm (lpm) | 296,800 |
| Inlet circulating water temperature, °F | 92.6 |
| Outlet circulating water temperature, °F | 77.0 |
| Ambient wet-bulb temperature, °F | 65.3 |
| Inlet wet-bulb temperature, °F | 67.3 |
| Maximum expected dry-bulb temperature, °F | 101.0 |
| Minimum expected dry-bulb temperature, °F | 30.0 |
| Maximum expected wet-bulb temperature, °F | 84.0 |
| Minimum expected wet-bulb temperature, °F | 30.0 |