



Florida Power & Light Company, 700 Universe Boulevard, Juno Beach, FL 33408  
561-694-5000

L-2010-072  
10 CFR 52.3

April 12, 2010

U.S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, D.C. 20555-0001

Re: Florida Power & Light Company  
Proposed Turkey Point Units 6 and 7  
Docket Nos. 52-040 and 52-041  
NRC March 2010 Hydrology Information Audit  
Supplemental Expedited Information Request Response

Reference:

1. FPL Letter L-2009-144 to NRC, dated June 30, 2009, Application for Combined Licenses for Turkey Point Units 6 and 7

Florida Power & Light Company (FPL) submitted an application for combined licenses (COLA) for Turkey Point Units 6 and 7 to be located in Miami-Dade County, FL on June 30, 2009, (Reference 1).

On March 22-24, 2010, the NRC staff and its contractors conducted an audit of hydrology information related to Final Safety Analysis Report (FSAR) Section 2.4. During the audit, the NRC identified supplemental information it would need on an expedited basis to complete its review of FSAR section 2.4. That information included electronic computer program input/output (I/O) files and selected reference material relied upon by FPL to prepare FSAR section 2.4. The purpose of this letter is to submit the information requested by the NRC during the audit.

The requested information is provided on the enclosed disks. The HEC-RAS, Visual MODFLOW, and SLOSH data files are provided in their native formats. HEC-RAS was used to model the local probable maximum precipitation (PMP) runoff in the swales north and south of the power block area. Visual MODFLOW was used to develop a steady-state, constant-density, three-dimensional representation of the Biscayne Aquifer. SLOSH was used to obtain the storm surge height corresponding to the probable maximum hurricane for the Biscayne Bay basin. Copies of selected FSAR Section 2.4 non-copyrighted reference material are also included on an enclosed disk.

As discussed with the NRC, the data provided in the attached disks is not easily convertible to PDF output files. Furthermore, since the NRC has requested the data to better evaluate software used by FPL in preparing its COLA, converting the information to PDF output files would not satisfy the NRC's needs. Consequently, the information submitted herein does not comply with the requirements for electronic submission in NRC Guidance Document, "Guidance for Electronic Submissions to the NRC," dated October 28, 2008.

The Attachments describe the information included on the enclosed disks. For the I/O files, the NRC and their contractors are strongly urged to view each 'Read Me' file before loading the associated file.

During the March 2010 Hydrology Audit, the NRC also requested the I/O files for FPL's Groundwater (GW) models used in the COLA and Site Certification Application (SCA). Revision 1 files support the COLA GW model and Revision 2 files support the SCA GW model.

If you have any questions, or need additional information, please contact me at 561-691-7490.

Sincerely,



William Maher  
Senior Licensing Director – New Nuclear Projects

Attachments/Enclosed Disks:

1. Local PMP Flood (HEC-RAS) Calculation Revision 1 Input/Output Files April 2010 (Attachment 1 Disk 1)
2. Groundwater Flow Model (MODFLOW)
  - a. Calculation Revision 1 Input/Output Files April 2010 (Attachment 2 Disk 1)
  - b. Calculation Revision 2 Input/Output Files April 2010 (Attachment 2 Disk 2)
3. PMH Surge and Seiche (SLOSH) Calculation Revision 0 Input/Output Files April 2010 (Attachment 3 Disk 1)
4. FSAR Chapter 2.4 References April 2010 (Attachment 4 Disk 1)

cc:

PTN 6&7 Project Manager, AP1000 Projects Branch 1, USNRC DNRL/NRO  
Regional Administrator, Region II, USNRC  
Senior Resident Inspector, USNRC, Turkey Point Plant

**NRC Request:**

Provide an SME to discuss the HEC-RAS modeling and make available for review HEC-RAS model files for probable maximum Flood (PMF) flows in the four modeled swales.

**FPL Response:**

HEC-RAS version 3.1.3 was used to model the local PMP runoff in the swales north and south of the power block area. Attachment 1 Disk 1 contains the HEC-RAS input and output files.

FPLLocalPMP.prj	The HEC-RAS project file which is opened with HEC-RAS version 3.1.3.
FPLLocalPMP.rep	A text file report generated by HEC-RAS with all the input and output data for the model.
FPLLocalPMP.g02	A geometry file generated and opened automatically by HEC-RAS when the project file (.prj) is opened.
FPLLocalPMP.f02	A flow file generated and opened automatically by HEC-RAS when the project file (.prj) is opened.
FPLLocalPMP.p01	A plan file generated and opened automatically by HEC-RAS when the project file (.prj) is opened.
FPLLocalPMP.r01	A run file generated and opened automatically by HEC-RAS when the project file (.prj) is opened.
FPLLocalPMP.O01	An output file generated and opened automatically by HEC-RAS when the project file (.prj) is opened.

**NRC Request:**

Provide for review all input/output (I/O) computer files used for modeling the Biscayne aquifer in the vicinity of Turkey Point and beyond to simulate the localized effects of steady-state, constant-density groundwater flow, the effects of construction dewatering, the effects of construction of Units 6 & 7 (site grade increase and use of cut-off walls for groundwater control), and the operation of the radial collector wells.

**FPL Response:**

During the March 2010 Hydrology Audit, the NRC requested that FPL provide the input/output files for the Combined License Application (COLA) and Site Certification Application (SCA) Groundwater (GW) model. Attachment 2 Disk 1 and Disk 2 contain the Visual MODFLOW I/O files for Revisions 1 and 2 (respectively) of Calculation 25409-000-K0C-0000-00005. Revision 1 files support the COLA groundwater (GW) model and Revision 2 files support the Site Certification Application (SCA) GW model.

The following descriptions and instructions are provided to identify the hardware and software used to perform the subject modeling, describe the files and file structures, and to describe the file development involved in completing the subject modeling.

**HARDWARE:**

This work was performed on an HP xw8600 workstation, with four dual core Intel® Xeon® E5440 processors, 32 GB of RAM, and Windows XP Professional (x64 Edition, Version 2003, Service Pack 2) operating system.

**SOFTWARE:**

This numerical modeling was performed using Schlumberger's Visual MODFLOW Pro 2009. The executable for large grids (1500x1500) is required to view and run these models.

**FILES:**

The following files accompany Calculation 25409-000-K0C-0000-00005 Rev. 1 for COLA Rev. 0:

- 1) Base\_SWHeads.zip
- 2) PumpingTest.zip
- 3) Dewatering.zip
- 4) PostCon.zip
- 5) Spit.zip
- 6) RanneyWells.zip
- 7) 4.3-2009\_Comparison.zip

Each of these zip archives should be decompressed to a folder in the root directory structure. A recommended naming convention is:

1. C:\GW\_Model\Rev1\Calibration\Base.vmf (model extracted from file Base\_SWHeads.zip)
2. C:\GW\_Model\Rev1\Pumping\_Test\PumpingTest.vmf (model extracted from file PumpingTest.zip)

3. C:\GW\_Model\Rev1\Construction\_Dewatering\Dewatering.vmf (model extracted from file Dewatering.zip)
4. C:\GW\_Model\Rev1\Post\_Construction\PostCon.vmf (model extracted from file PostCon.zip)
5. C:\GW\_Model\Rev1\Revised\_Shoreline\NewCHD\_Wells.vmf (model extracted from file Spit.zip)
6. C:\GW\_Model\Rev1\Radial\_Collector\_Wells\Top10\BASE\_GHB\_EAST.vmf (Base Case)
  - \Bot\0.01\GHB\_EAST-BOT\_K0\_01.vmf (Sensitivity Run)
  - \Bot\0.1\GHB\_EAST-BOT\_K0\_1.vmf (Sensitivity Run)
  - \Bot\1\GHB\_EAST-BOT\_K1.vmf (Sensitivity Run)
  - \Top\0.01\GHB\_EAST-TOP\_K0\_01.vmf (Sensitivity Run)
  - \Top\0.1\GHB\_EAST-TOP\_K0\_1.vmf (Sensitivity Run)
  - \Top\1\GHB\_EAST-TOP\_K1.vmf (models extracted from file RanneyWells.zip)
7. C:\GW\_Model\Rev1\4.3-2009\_Comparison\4.3-ConstructionDewatering\ConDewater.vmf
  - \2009-ConstructionDewatering\ConDewater.vmf (models extracted from file Dewatering.zip)

The following files accompany Calculation 25409-000-K0C-0000-00005 Rev. 2 for the current SCA: (Version submitted with SCA Round 1 Completeness Responses, October 2009)

- 1) Calibration.zip
- 2) Dewatering.zip
- 3) RCW.zip

Each of these zip archives should be decompressed to a folder in the root directory structure. A recommended naming convention is:

1. C:\GW\_Model\Rev2\Calibration\Base.vmf (model extracted from file Calibration.zip)
2. C:\GW\_Model\Rev2\Construction\_Dewatering\Dewatering\_BothUnits.vmf (model extracted from file Dewatering.zip)
3. C:\GW\_Model\Rev2\Radial\_Collector\_Wells\RCW.vmf (model extracted from file RCW.zip)

After decompressing each zip archive into its respective folder, numerous files will be present. A description of all potential files is described below.

To view the model input and output, the file with extension ".vmf" should be opened. Opening the ".vmf" files will enable the input and output for the model simulation to be reviewed. It is not necessary to view/edit/modify/remove etc. any of the other files that were unpacked from the zip archive.

## **MODEL DATA FILES**

### **Visual MODFLOW Data Files**

When a new data set is generated by Visual MODFLOW, a number of ASCII files are created. Each one of these data files must remain in the same directory to run Visual MODFLOW using this data set. These files are listed below, where 'projectname' is the name assigned to the model. A description of the content of each file is given below.

## **General Files**

projectname.filename.DXF Imported AUTOCAD Data eXchange Format (DXF) drawing file  
projectname.MAP Map file created by Visual MODFLOW from a .DXF file  
projectname.EXT Visual MODFLOW file containing limits for DXF image  
projectname.INI Bitmap georeference data file  
projectname.LDB Temporary MSACCESS file for database control  
projectname.MDB Database file containing pumping well and observation well data  
projectname.MPS File containing general information for running MODPATH  
projectname.VMF General model setup and settings data file (XML format)  
projectname.VMN Annotation (lines, arrows, text, shapes) data file  
projectname.VMR Model run options data file

## **MODFLOW**

projectname.VIH Initial head data file  
projectname.VMB\* Flow Boundary condition data file  
projectname.VMG\* Grid discretization, layer elevation, and geometry data file  
projectname.VMP\* Flow properties (Kx, Ky, Kz, Ss, Sy, Por, Recharge and Evapotranspiration) data file  
projectname.VMO\* Head observation well data file  
projectname.VMO.GRP Head observation well groups data file  
projectname.VMW\* Pumping well data file

## **MODPATH**

projectname.VMA\* Particle location and tracking data file

## **Zone Budget**

projectname.VMZ Zone Budget zones data file

## **Numerical Model Input Files**

The following files are generated by Visual MODFLOW during translation:

## **MODFLOW**

modflow.IN List of translated files for MODFLOW  
projectname.BAS Basic Package data file  
projectname.BCF Block-Centered Flow Package data file.  
projectname.CHD Time-variant specified head data file  
projectname.DIS Model discretization data file  
projectname.DRN Drain Package data file  
projectname.EVT Evapotranspiration Package data file (MODFLOW-2000).  
projectname.EVP Evapotranspiration Package data file (MODFLOW-96).  
projectname.GHB General-Head Boundary Package data file  
projectname.HFB Horizontal Flow Boundary Package data file.

projectname.LPF Layer Property Flow data file  
projectname.MNW Multi-Node Wells package input file  
projectname.OC Output control options data file  
projectname.PCG PCG2 Solver Package data file  
projectname.RCH Recharge Package data file  
projectname.RIV River Package data file  
projectname.SIP SIP Solver Package data file  
projectname.SOR SOR Solver Package data file  
projectname.STR Streamflow-Routing Package data file  
projectname.WEL Well Package data file  
projectname.WHS WHS Solver data file

## **MODPATH**

BACKWARD.IN Backward tracking particle locations data file  
BACKWARD.PTH Backward tracking run options data file  
FORWARD.IN Forward tracking particle locations data file  
FORWARD.PTH Forward tracking run options data file  
projectname.MPT Main MODPATH input data file  
MODPATH.IN List of MODPATH input files

## **Zone Budget**

projectname.ZBI Zone Budget data file  
ZONEBUD.IN List of Zone Budget input files

## **Output Files**

## **MODFLOW**

projectname.BGT MODFLOW file containing water budget data used by MODPATH (Binary format)  
projectname.CBB MODFLOW-SURFACT file containing water budget data used by MODPATH (Binary format)  
projectname.CLB Calibration package file (for all calibration data and graphs)  
projectname.DDN MODFLOW file containing drawdown X, Y, Z heads for each node (Binary format)  
projectname.DVT No longer used in Visual MODFLOW.  
projectname.FLO MODFLOW file containing cell-by-cell flow terms (Binary format)  
projectname.HDS MODFLOW file containing head results (Binary format)  
projectname.LST MODFLOW listing file containing information and messages from MODFLOW (ASCII format)  
projectname.HVT Visual MODFLOW file containing head versus time results (Binary format)

## **MODPATH**

projectname.CBF Composite Budget file used by MODPATH

projectname.MPB MODPATH file containing backward tracking particle information (ASCII format)

projectname.MPF MODPATH file containing forward particle information (ASCII format)

SUMMARY.PTH MODPATH file containing listing information and messages from MODPATH (ASCII format)

## **PEST**

projectname.NDC Allows WINPEST to continue to run even if one calibration attempt does not converge

projectname.REC PEST results file (ASCII format)

projectname.PLT loadable file (ASCII format)

## **Zone Budget**

projectname.ZOT Zone Budget file containing water balance data (ASCII format).



**NRC Request:**

Provide for review the SLOSH input, typical output, and calculation packages.

**FPL Response:**

Attachment 3 Disk 1 contains the SLOSH model Input/Output (I/O) files for Revision 0 of Calculation 25409-000-K0C-0009-00007. The Calculation will be made available for NRC staff review in the reading room.

SLOSH model files are categorized in 6 groups:

- 1) Input <\*.stm> files
- 2) Input <\*.trk> files
- 3) Bathymetry/topography file
- 4) Output <\*.rex> files
- 5) Output <\*.env> files
- 6) Output <\*.txt> files

Total 266 files are listed below. Including a README.TXT, total 267 files are provided in this package.

1) Input <\*.stm> files

\*.stm files provide a 13-point description of storm track and corresponding PMH parameters. Total 53 files.

Case1.stm	Case15.stm	Case29.stm	Case43.stm
Case2.stm	Case16.stm	Case30.stm	Case44.stm
Case3.stm	Case17.stm	Case31.stm	Case45.stm
Case4.stm	Case18.stm	Case32.stm	Case46.stm
Case5.stm	Case19.stm	Case33.stm	Case47.stm
Case6.stm	Case20.stm	Case34.stm	Case48.stm
Case7.stm	Case21.stm	Case35.stm	Case49.stm
Case8.stm	Case22.stm	Case36.stm	rmw1.stm
Case9.stm	Case23.stm	Case37.stm	rmw2.stm
Case10.stm	Case24.stm	Case38.stm	rmw3.stm
Case11.stm	Case25.stm	Case39.stm	rmw4.stm
Case12.stm	Case26.stm	Case40.stm	
Case13.stm	Case27.stm	Case41.stm	
Case14.stm	Case28.stm	Case42.stm	

2) Input <\*.trk> files

\*.trk files provide storm track and corresponding PMH input parameters. Total 53 files.

case1.trk	case15.trk	case29.trk	case43.trk
case2.trk	case16.trk	case30.trk	case44.trk
case3.trk	case17.trk	case31.trk	case45.trk
case4.trk	case18.trk	case32.trk	case46.trk
case5.trk	case19.trk	case33.trk	case47.trk
case6.trk	case20.trk	case34.trk	case48.trk
case7.trk	case21.trk	case35.trk	case49.trk
case8.trk	case22.trk	case36.trk	rmw1.trk

case9.trk	case23.trk	case37.trk	rmw2.trk
case10.trk	case24.trk	case38.trk	rmw3.trk
case11.trk	case25.trk	case39.trk	rmw4.trk
case12.trk	case26.trk	case40.trk	
case13.trk	case27.trk	case41.trk	
case14.trk	case28.trk	case42.trk	

3) Bathymetry/topography file

One SLOSH model bathymetry/topography file

hmiadta

4) Output <\*.rex> files

\*.rex files provide SLOSH results to be displayed and analyzed using NOAA's SLOSH Display Program. Total 53 files.

case1.rex	case15.rex	case29.rex	case43.rex
case2.rex	case16.rex	case30.rex	case44.rex
case3.rex	case17.rex	case31.rex	case45.rex
case4.rex	case18.rex	case32.rex	case46.rex
case5.rex	case19.rex	case33.rex	case47.rex
case6.rex	case20.rex	case34.rex	case48.rex
case7.rex	case21.rex	case35.rex	case49.rex
case8.rex	case22.rex	case36.rex	rmw1.rex
case9.rex	case23.rex	case37.rex	rmw2.rex
case10.rex	case24.rex	case38.rex	rmw3.rex
case11.rex	case25.rex	case39.rex	rmw4.rex
case12.rex	case26.rex	case40.rex	
case13.rex	case27.rex	case41.rex	
case14.rex	case28.rex	case42.rex	

5) Output <\*.env> files

\*.env files provide SLOSH results for the envelope of high water levels. Total 53 files.

case1.env	case15.env	case29.env	case43.env
case2.env	case16.env	case30.env	case44.env
case3.env	case17.env	case31.env	case45.env
case4.env	case18.env	case32.env	case46.env
case5.env	case19.env	case33.env	case47.env
case6.env	case20.env	case34.env	case48.env
case7.env	case21.env	case35.env	case49.env
case8.env	case22.env	case36.env	rmw1.env
case9.env	case23.env	case37.env	rmw2.env
case10.env	case24.env	case38.env	rmw3.env
case11.env	case25.env	case39.env	rmw4.env
case12.env	case26.env	case40.env	
case13.env	case27.env	case41.env	
case14.env	case28.env	case42.env	

6) Output <\*.txt> files

\*.txt files include storm surge time history at the Site, represented by SLOSH grid cell (63,40). Total 53 files.

case1.txt	case15.txt	case29.txt	case43.txt
case2.txt	case16.txt	case30.txt	case44.txt
case3.txt	case17.txt	case31.txt	case45.txt
case4.txt	case18.txt	case32.txt	case46.txt
case5.txt	case19.txt	case33.txt	case47.txt
case6.txt	case20.txt	case34.txt	case48.txt
case7.txt	case21.txt	case35.txt	case49.txt
case8.txt	case22.txt	case36.txt	rmw1.txt
case9.txt	case23.txt	case37.txt	rmw2.txt
case10.txt	case24.txt	case38.txt	rmw3.txt
case11.txt	case25.txt	case39.txt	rmw4.txt
case12.txt	case26.txt	case40.txt	
case13.txt	case27.txt	case41.txt	
case14.txt	case28.txt	case42.txt	

**NRC Request:**

Provide for review electronic or hard copies of the following references from Turkey Points Units 6 & 7 FSAR: Section 2.4.1: 201, 207, 210, 217, 224; Section 2.4.2: 207, 213, 214; Section 2.4.3: 201, 203; Section 2.4.5: 202, 209; Section 2.4.11: 201, 202, 203; Section 2.4.12: 203, 208, 214, 216, 223, 227, 230, 233, 238, 249; Appendix 2CC: 2, 3, 5, 8, 17, 20; Section 2.4.13: 201, 202.

**FPL Response:**

The requested references are listed below. References that are not copyrighted material (as indicated in the 'Copyrighted Material' column) are included in Attachment 4 Disk 1. The following references listed in the NRC request are copyrighted and therefore not included on the disk: 2.4.1-217, 2.4.2-207, 2.4.2-213, 2.4.2-214, 2.4.5-209, 2.4.12-216, 2.4.12CC-17, and 2.4.12CC-20. Reference 2.4.13-202 listed in the NRC request is a duplicate of reference 2.4.1-201 and therefore only reference 2.4.1-201 is included on the disk. Reference 2.4.12CC-3 listed in the NRC request was provided as Part 11 Enclosure 2 of the Combined License Application.

Reference	Title	Copyrighted Material (Y/N)
FSAR Section 2.4.1		
REF 2.4.1-201	Florida Power and Light Co., <i>Site Certification Application Turkey Point Upstate Project</i> , January 2008.	N
REF 2.4.1-207	U.S. Army Corps of Engineers, <i>Design Modifications for the Canal 111 (C- 111) Project, Miami-Dade County, Florida, Draft Environmental Assessment</i> , Jacksonville District, June 2007.	N
REF 2.4.1-210	South Florida Water Management District (SFWMD), <i>Preliminary Design Report Cutler Wetlands C-1 Flow Way and L-31E Culverts, Biscayne Bay Coastal Wetlands-Phase 1</i> , 2006.	N
REF 2.4.1-217	Caccia, V.G., and Boyer, J.N., "Spatial Patterning of Water Quality in Biscayne Bay, Florida as a Function of Land Use and Water Management," <i>Marine Pollution Bulletin</i> , v. 50, pp. 1416-1429, 2005.	Y
REF 2.4.1-224	Ruiz, P.L., and Ross, M.S., <i>Hydrological Restoration of the Biscayne Bay Coastal Wetlands: Mosquito and Drainage Ditch Inventory and Recommendations</i> , Southeast Environment Research Center, Florida International University, August 2004.	N
FSAR Section 2.4.2		
REF 2.4.2-207	American National Standards/American Nuclear Society, <i>American National Standard for Determining Design Basis Flooding at Nuclear Reactor Sites</i> , ANSI/ANS-2.8-1992, 1992.	Y

Reference	Title	Copyrighted Material (Y/N)
REF 2.4.2-213	Brater, E.F. and King, H.W., <i>Handbook of Hydraulics</i> , 6th Edition, 1982.	Y
REF 2.4.2-214	Chow, V.T., <i>Open Channel Hydraulics</i> , 1959.	Y
FSAR Section 2.4.3		
REF 2.4.3-201	U.S. Geological Survey, <i>Arsenicker Keys Quadrangle, Florida-Dade County, 7.5 Minute Series Topographic Map</i> , 1997.	N
REF 2.4.3-203	Federal Emergency Management Agency, <i>Flood Insurance Study, Dade County, Florida and Incorporated Areas</i> , Revised March 1994.	N
FSAR Section 2.4.5		
REF 2.4.5-202	National Oceanic and Atmospheric Administration (NOAA), <i>FAQ/State of the Science: Atlantic Hurricane &amp; Climate</i> , U.S. Department of Commerce, December 2006.	N
REF 2.4.5-209	Jarvinen, B.R., et al., <i>An Evaluation of the SLOSH Storm Surge Model</i> , Bulletin American Meteorological Society, Vol. 66, No. 11, pp. 1408-1411, November 1985.	Y
FSAR Section 2.4.11		
REF 2.4.11-201	Miami-Dade Water and Sewer Department, <i>Reuse Feasibility Update</i> , April 2007.	N
REF 2.4.11-202	South Florida Water Management District, <i>Water Use Permit No. RE-ISSUE 13-00017-W</i> , November 15, 2007.	N
REF 2.4.11-203	Miami-Dade Water and Sewer Department, <i>Miami-Dade Consolidated PWS Water Use Permit No. 13-00017-W</i> , July 7, 2008.	N
FSAR Section 2.4.12		
REF 2.4.12-203	U.S. Geological Survey, <i>Manual Water-level Measurements in the Homestead, FL Area, as of March 2009, Groundwater conditions in Southern Florida</i> . Available at <a href="http://www.sflorida.er.usgs.gov/edl_data/text/hstd_gov.html">http://www.sflorida.er.usgs.gov/edl_data/text/hstd_gov.html</a> , accessed May 22, 2009.	N
REF 2.4.12-208	Starr, R.C., Green, T.S., and Hull, L.C., <i>Evaluation of Confining Layer Integrity Beneath the South District Wastewater Treatment Plant, Miami-Dade Water and Sewer Department, Dade County, Florida</i> , Idaho National Engineering and Environmental Laboratory Geosciences Research Department, 2001.	N
REF 2.4.12-214	Dames & Moore, <i>Floridan Aquifer Water Supply Investigation Turkey Point Area Dade County, Florida</i> , prepared for Florida Power and Light Company, 1975.	N

Reference	Title	Copyrighted Material (Y/N)
REF 2.4.12-216	Bloetscher, F., and Muniz, A., <i>Ground Water Protection Council 2006 Annual Meeting: Preliminary Modeling of Class I Injection Wells In Southeast Florida</i> , 2006.	Y
REF 2.4.12-223	South Florida Water Management District, "Basis of Review for Water Use Applications within the South Florida Water Management District," <i>Rules of the South Florida Water Management District</i> , February 2008.	N
REF 2.4.12-227	South Florida Water Management District, Regulatory Data Browsing & Downloading, Water Use Permits. Available at <a href="https://my.sfwmd.gov/portal/page?_pageid=734,1546097&amp;_dad=portal&amp;_schema=PORTAL">https://my.sfwmd.gov/portal/page?_pageid=734,1546097&amp;_dad=portal&amp;_schema=PORTAL</a> , accessed August 22, 2008.	N
REF 2.4.12-230	South Florida Water Management District, <i>Lower East Coast Water Supply Plan 2005–006 Update</i> , 2006.	N
REF 2.4.12-233	South Florida Water Management District, DBHYDRO Browser Menu. Available at <a href="http://my.sfwmd.gov/dbhydroplsql/show_dbkey_info.main_menu">http://my.sfwmd.gov/dbhydroplsql/show_dbkey_info.main_menu</a> , accessed September 9, 2008 and April 15, 2009.	N
REF 2.4.12-238	Dames & Moore, <i>Geohydrologic Conditions Related to the Construction of Cooling Ponds Florida Power &amp; Light Company Steam Generating Station Turkey Point Florida</i> , prepared for Brown and Root, Inc., July 1971.	N
REF 2.4.12-249	Florida Power & Light Company, <i>Construction Permit Application to Construct a Class V Exploratory Well and Dual-Zone Monitor Well at the Florida Power and Light Company Turkey Point Units 6 &amp; 7</i> , January 2009.	N
FSAR Section 2.4.13		
REF 2.4.13-201	Golder Associates, Inc., <i>Final Report on Florida Power &amp; Light Company, Turkey Point, New Nuclear Project, Cooling Canal Data and Analysis Report</i> , February 2008.	N
REF 2.4.13-202	Florida Power & Light, <i>Site Certification Application Turkey Point Upstate Project</i> , January 2008.	N See REF 2.4.1-201
FSAR Section 2.4.12CC		
REF 2.4.12CC-2	Dames & Moore, 1971, <i>Geohydrologic Conditions Related to the Construction of Cooling Ponds</i> , Florida Power and Light Company, Steam Generating Station, Turkey Point, Florida, Prepared for Brown and Root, Inc.	N
REF 2.4.12CC-3	MACTEC Engineering and Consulting, 2008. <i>Final Data Report — Geotechnical Exploration and Testing: Turkey Point COL Project Florida City, Florida</i> , Rev. 2, October 6, 2008.	N See COLA Part 11 Enclosure 2

Reference	Title	Copyrighted Material (Y/N)
REF 2.4.12CC-5	Dames & Moore, 1975, <i>Florida Aquifer Water Supply Investigation</i> , Turkey Point Area, Dade County, Fl. Prepared for Florida Power and Light Company.	N
REF 2.4.12CC-8	Lyerly, R.L., and Associates, 1973. <i>A Summary Report of the Turkey Point Cooling Canal System</i> .	N
REF 2.4.12CC-17	Cunningham, K.J., Sukop, M.C., Huang, H., Alvarez, P.F., Curran, H.A., Renken, R.A., and Dixon, J.F., 2009, <i>Prominence of ichnologically influenced macroporosity in the karst Biscayne aquifer: Stratiform "super-K" zones: Geological Society of America Bulletin</i> , v. 121, no. 1/2, p. 164-180.	Y
REF 2.4.12CC-20	Gamble, B.F. and Stowe, S.M., 2008. <i>Approaches to Modeling Collector Wells and Horizontal Wells with MODFLOW</i> . MODFLOW and More 2008: Groundwater and Public Policy. Conference proceedings, pp 489-493.	Y