

L-2011-503 10 CFR 52.3

### November 28, 2011

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

Submittal of Underground Injection Control Exploratory Well Weekly Construction Summaries – #25, #26, and #27

### Reference:

 FPL Letter to NRC, L-2009-265 dated November 24, 2009, Revised Hydrology Response to NRC Information Requests in COL Application Acceptance Review Letter

This letter provides the Underground Injection Control (UIC) weekly construction summaries #25 dated October 28, 2011, #26 dated November 4, 2011, and #27 dated November 11, 2011, submitted to the Florida Department of Environmental Protection (FDEP) as required by Permit #0293962-001-UC, and discussed in FPL's Revised Response to NRC Information Requests in COL Application Acceptance Review Letter (Reference 1).

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

### WDM/RFB

### **Enclosures:**

- Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #25 dated October 28, 2011
- Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project;
   Permit #0293962-001-UC Weekly Construction Summary #26 dated
   November 4, 2011

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Page 2

3. Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #27 dated November 11, 2011

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 3 & 4

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 1 Page 1 of 35

### **Enclosure 1**

Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #25 dated October 28, 2011

### WEEKLY CONSTRUCTION SUMMARY

MHC

McNabb Hydrogeologic Consulting, Inc.

601 Heritage Drive, Suite 110 Jupiter, Florida 33458 Phone: 561-891-0763 Fax: 561-623-5469

October 28, 2011

MHCDEP-11-0493

Mr. Joseph May, P.G. Florida Department of Environmental Protection 400 N. Congress Ave, Suite 200 West Palm Beach, FL 33401

RE: Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC

Weekly Construction Summary #25

Dear Mr. May:

This is the twenty-fifth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, October 20, 2011 and ended at 7:00 AM, Thursday, October 27, 2011. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period the drilling contractor drilled a pilot hole over the interval from 3,233 feet below pad level (bpl) to 3,234 feet bpl. Most of the reporting period was spent dredging over the interval primarily from approximately 3,222 to 3,232 feet bpl.

During this reporting period, the drilling contractor drilled a pilot hole over the interval from 3,234 feet bpl to 3,265 feet bpl. Most of the reporting period was spent dredging over the interval primarily from approximately 3,233 to 3,241 feet bpl. The dredge material consists primarily of lime sand with some dolomite and limestone gravel. Lithologic samples were collected at 5-foot intervals during pilot hole drilling. A description of the lithologic samples collected during this reporting period is attached. A daily kill material log providing a summary of daily kill material and kill volume is attached.

There was no casing installation, cementing, packer testing, exploratory well development, or construction related issues during this reporting period.

During the next reporting period, it is anticipated that the drilling contractor will complete pilot hole drilling to a depth of 3,500 feet bpl, perform geophysical logging of the pilot hole and begin packer testing of the pilot hole unless dredging of the pilot hole continues.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on October 27, 2011. The most recent set of pad monitoring well sample results available are for samples collected on October 20, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

Should you have any questions regarding the above weekly construction summary, please contact David McNabb at (561) 891-0763.

Sincerely,

McNabb Hydrogeologic Consulting, Inc.

David McNabb, P.G.

Attachments: Consultant Daily Construction Log

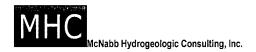
Layne Christensen Company-Drilling Shift Report Pad Monitor Well Water Quality Data Summary Sheets

Lithologic Description Daily Kill Material Log

Cc:

George Heuler/FDEP-Tallahassee Emily Richardson/SFWMD Matthew Raffenberg/FPL David Holtz/HCE

Joe Haberfeld/FDEP-Tallahassee Ron Reese/USGS David Paul/FGS





**Date:** October 20, 2011 **FDEP UIC Permit** #:0293962-001-UC

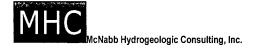
Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,234 feet bpl Ending Depth: 3,234 feet bpl

Weather Day: Clear to Partly Cloudy Recorded By: Eric Meyer/Mark McNeal

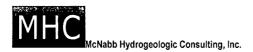
Weather Night: Clear Activity: Pilot Hole Drilling

- 0700 The drilling contractor continued dredging the pilot hole during the night shift. Dredging has been occurring between the depths of 3,226 to 3,234 feet below pad level (bpl). The drill cuttings consist mostly of coarse carbonate sand.
- 1015 Florida Spectrum Laboratories is onsite to sample the drilling pad monitoring wells.
- The drilling contractor continues to work the bit up and down to maintain reverse-air circulation as material is dredged from the bottom of the pilot hole. The top of the fill in the hole occurs at a depth of about 3,232 feet bpl.
- The drilling contractor continues dredging the pilot hole with the top of the fill occurring at a depth of about 3,228 feet bpl.
- 1500 The drilling contractor continues to dredge the pilot hole and is able to work the bit to the depth of 3,228 feet bpl before pulling up to restore reverse-air circulation.
- 1525 The drilling contractor dredged down to the depth of 3,234 feet and pulled the bit up to restore reverse-air circulation.
- The drilling contractor tagged the fill at the bottom of the pilot hole at 3,233 feet bpl and continued to dredge to 3,234 feet bpl before pulling the bit up.
- 1800 The drilling contractor continues to dredge the pilot hole to a depth of 3,234 feet bpl. Cuttings produced from the hole are predominantly pea gravel size whitish dolomite with little sand.
- 1930 The drilling contractor tagged the fill at the bottom of the pilot hole at 3,231 and continued to dredge to 3,234 feet bpl before pulling the bit up.
- 2315 The drilling contractor tagged the fill at the bottom of the pilot hole at 3,232 and continued to dredge to 3,234 feet bpl before pulling the bit up. They were able to maintain the bit at 3,234 for nearly 10 minutes before observing a pressure decrease and needing to pull back up, which was encouraging.
- O230 The drilling contractor tagged the fill at the bottom of the pilot hole at 3,233 and continued to dredge to 3,234 feet bpl before pulling the bit up.
- O445 The drilling contractor tagged the fill at the bottom of the pilot hole at 3,233 and continued to dredge to 3,234 feet bpl before pulling the bit up. They were able to





- stay at Kelly Down (3,234 feet bpl) for approximately 13 minutes before pulling up.
- The drilling contractor continues to dredge the pilot hole between 3,233 feet and 3,234 feet bpl. Cuttings produced are about 50 percent coarse sand (carbonate) and 50 percent whitish dolomite gravel or larger in size.
- 0700 The drilling contractor continues to dredge the pilot hole in the interval from 3,233 feet to 3,234 feet bpl.





**Date:** October 21, 2011 **FDEP UIC Permit** #:0293962-001-UC

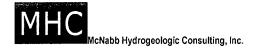
**Project:** FPL Turkey Point EW **Well No.:** EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,234 feet bpl Ending Depth: 3,234 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Eric Meyer/Mark McNeal

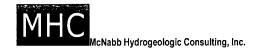
Weather Night: Clear and Cool Activity: Pilot Hole Drilling

- 0700 The drilling contractor continues to dredge the pilot hole between 3,233 feet and 3,234 feet bpl. Cuttings produced are about 50 percent coarse sand (carbonate) and 50 percent whitish dolomite gravel or larger in size.
- O730 During the drilling contractor's shift change, pressure in the wash pipe was declining as the borehole slowly filled with cuttings. The drilling contractor is circulating to clean the pilot hole to 3,234 feet bpl in preparation for adding drill pipe.
- 0830 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval. No weight on bit is observed as the tophead drive is bottomed out. The addition of drill pipe is required to progress the pilot hole deeper.
- 1130 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval.
- The drilling contractor has the bit positioned at a depth of 3,225 feet bpl and is surging the well by stopping and starting air flow to the wash pipe.
- The drilling contractor continues to dredge the pilot hole. The air pressure to the wash pipe began to drop when the bit reached the depth of 3,233 feet bpl. The top of rock was tagged at 3,234 feet with a weight on bit of 8,000 lb. The drill bit was subsequently raised up to 3,228 feet bpl to allow the air pressure in the wash pipe to recover.
- 1430 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval.
- The drilling contractor dredged to 3,233 feet bpl before wash pipe pressure declined. The bit was subsequently pulled up to 3,227 feet bpl to allow the pressure to recover which took approximately 5 minutes. The bit was then lowered and the process repeated.
- The drilling contractor continues to dredge from the depths between 3,232 feet and 3,234 feet bpl. Occasionally, the drilling contractor has applied surging by shutting off the air flow then restarting it several minutes later. Cuttings produced are predominantly whitish dolomite, with pieces approximately 1.5 cm and smaller.
- The drilling contractor is dredging in the 3,232 feet to 3,234 feet bpl interval.
- 2100 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval.





- 2300 The drilling contractor is dredging in the 3,232 feet to 3,234 feet bpl interval.
- O130 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval. They were able to remain at kelly down (3,234 feet bpl) for approximately 20 minutes before losing pressure and needing to pull up off of bottom.
- 0400 The drilling contractor is circulating the borehole at 3,234 feet bpl. They have been able to remain at kelly down for approximately 50 minutes without losing pressure.
- O445 The drilling contractor is circulating the borehole at 3,234 feet bpl. The hole is more stable but is continuing to dredge.
- The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval. They are not able to stay on bottom for very long without losing pressure.
- O600 The drilling contractor is dredging in the 3,233 feet to 3,234 feet bpl interval.
- 0700 The drilling contractor continues to dredge down to 3,234 feet bpl. Reverse-air circulation air pressure drops rapidly, so the time the bit is on the bottom of the hole is brief. The bit is pulled up to about 3,225 feet bpl to restore air pressure in the wash pipe.





**Date:** October 22, 2011 **FDEP UIC Permit** #:0293962-001-UC

**Project:** FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,234 feet bpl Ending Depth: 3,234 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Eric Meyer/Mark McNeal

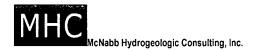
Weather Night: Clear and Cool Activity: Pilot Hole Drilling

- 0700 The drilling contractor continues to dredge the pilot hole between 3,233 feet and 3,234 feet bpl (below pad level). Time on bottom with the drill bit is brief as air pressure to the wash pipe drops rapidly.
- 0800 The drilling contractor is circulating the pilot hole with the drill bit positioned at 3,230 feet bpl.
- O900 The drilling contractor is circulating the pilot hole with the drill bit positioned at 3,231 feet bpl. The drilling contractor is advancing the bit very slowly (about 2 feet per hour) and is maintaining air pressure on the wash pipe at about 154 pounds per square inch (psi).
- O950 The drilling contractor begins dipping the slurry pit and transporting cuttings to the storage area.
- The drilling contractor is circulating the pilot hole with the drill bit positioned at 3,233 feet bpl. The drill bit continues to be progressed deeper at about 2 feet per hour and pressure is being maintained on the wash pipe.
- The drilling contractor tagged the top of the cuttings at a depth of about 3,233.5 feet bpl where wash pipe pressure began to decline. The bit was then raised to 3,230 feet bpl to restore air pressure.
- The drilling contractor continues to dredge the pilot hole to a depth of 3,234 feet bpl. Maintenance is also being performed on the power tong hydraulics.
- 1230 The drilling contractor is beginning another run to bottom starting at 3,228 feet bpl with full pressure on the wash pipe.
- 1430 The drilling contractor continues to dredge the pilot hole to a depth of 3,234 feet bpl. The time on bottom is very brief as air pressure to the wash pipe declines when the bit is at approximately 3,233 feet bpl. During the dredging, there is no weight on bit.
- 1630 The drilling contractor continues to dredge the pilot hole and reworks the interval from about 3,230 feet to 3,233 feet bpl. Surging has been applied occasionally today to aid in the removal of sand and cuttings from the bottom of the pilot hole.





- 1715 The drilling contractor continues to dredge the pilot hole and is surging the air pressure with the bit positioned at a depth of 3,330 feet bpl.
- 1815 The drilling contractor continues to dredge the pilot hole at a depth of 3,334 feet bpl. They were able to remain at kelly down for approximately 10 minutes before losing pressure and bringing the bit back off bottom.
- 2100 The drilling contractor continues to dredge the pilot hole from about 3,232 feet to 3,234 feet bpl.
- 0000 The drilling contractor continues to dredge the pilot hole from about 3,233 feet to 3,234 feet bpl. Cuttings are roughly pebble sized for the most part at this time.
- 0300 The drilling contractor continues to dredge the pilot hole from about 3,232 feet to 3,234 feet bpl. The cuttings arriving at the surface appear to be finer, almost sand sized particles.
- The drilling contractor continues to dredge the pilot hole from about 3,232 feet to 3,233 feet bpl. Cuttings have returned to more pebble-sized returns.
- O630 The drilling contractor continues to dredge the pilot hole and surging with air. The bit is positioned at 3,210 feet while pressure in the wash pipe increases.
- 0700 The drilling contractor continues to dredge the pilot hole at a depth of 3,234 feet bpl.





**Date:** October 23, 2011 **FDEP UIC Permit** #:0293962-001-UC

**Project:** FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,234 feet bpl Ending Depth: 3,241 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Eric Meyer/Mark McNeal

Weather Night: Clear and Cool Activity: Pilot Hole Drilling

### **CONSTRUCTION ACTIVITIES**

Overnight, the drilling contractor continued to dredge the pilot hole between 3,233 feet and 3,234 feet bpl (below pad level). Dredging the pilot hole continues today. The rock cuttings circulated from the hole are predominantly whitish dolomite pebbles, ranging from fine to very coarse; very little sand is being produced by the dredging. Dredging is currently at a depth of 3,234 feet bpl.

Over the past hour, the drilling contractor has dredged between 3,232 and 3,334 feet bpl.

1200 The drilling contractor is circulating the pilot hole with the bit positioned at the depth of 3,232 feet bpl.

1230 The drilling contractor tagged the top of the fill in the pilot hole at 3,233 feet bpl and air pressure declined immediately. The bit was pulled up to 3,212 feet bpl where air pressure to the wash pipe was restored.

1236 The drilling contractor made several quick runs, up and down with the bit, each time to 3,234 feet bpl while maintaining sufficient air pressure. The drilling contractor was able to leave the bit on bottom at 3,234 feet bpl for about 2 minutes before pulling back to restore air pressure.

1400 The drilling contractor continues to dredge the pilot hole from about 3,230 feet to 3,234 feet bpl.

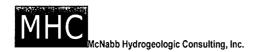
The drilling contractor has been circulating near the bottom of the pilot hole at 3,234 feet bpl for more than 1 hour without loss of pressure. A reverse-air water sample was collected and the drilling contractor is preparing to make a drill pipe connection (45 feet). To minimize the amount of time that reverse-air circulation is suspended and the potential for loss of hole, the deviation survey at 3,224 feet bpl will not be taken at this time; the deviation survey will be taken when the next drill pipe connection is made.

The drilling contractor completed the addition of a 45-foot long piece of drill pipe to the string. A 90-foot stand of drill pipe remains in the fingerboard. Reverse-air drilling is proceeding with the bit off of bottom at a depth of 3,232 feet bpl.





- 1700 The drilling contractor is circulating the pilot hole with the bit stationary at the depth of 3,228 feet bpl. Air pressure in the wash pipe was stable at 142 pounds per square inch (psi). The drilling contractor proceeded to drill to 3,235 feet bpl with weight on bit, at which point the air pressure declined. The bit was subsequently pulled up to 3,224 feet bpl to allow air pressure to recover from a low of 129 psi.
- 1800 The drilling contractor advanced the pilot hole to 3,236 feet bpl and has pulled up off bottom and is no longer circulating the well. They are killing the well to allow maintenance on the rubber seal at the wellhead which has been leaking.
- 1930 The drilling contractor has killed the well and replaced the rubber element at the wellhead as the previous one was worn out. They are preparing to button the wellhead back up to resume drilling.
- 2030 The drilling contractor has resumed pilot hole drilling.
- 2100 The drilling contractor is dredging the interval from 3,234 to 3,236 feet bpl.
- 2300 The drilling contractor has advanced the borehole to 3,237 feet bpl and is currently dredging the interval from 3,236 to 3,237 feet bpl.
- 2320 The drilling contractor has advanced the borehole to 3,239 feet bpl.
- 0015 The drilling contractor has advanced the borehole to 3,240 feet bpl.
- 0045 The drilling contractor has advanced the borehole to 3,245 feet bpl.
- The drilling contractor has advanced the borehole to 3,246 feet bpl. They are currently dredging fill in the hole between about 3,240 and 3,242 feet bpl.
- The drilling contractor continues dredging the hole between the interval of approximately 3,237 and 3,241 feet bpl. The dredging material is primarily sand.
- O345 The drilling contractor continues dredging the hole between the interval of approximately 3,237 and 3,241 feet bpl. The dredging material appears the same.
- The drilling contractor is circulating the pilot hole with the bit positioned at 3,230 feet bpl to restore pressure to the wash pipe. Dredging continues from approximately 3,237 feet to 3,241 feet bpl, the depth at which weight on the bit occurs. At this time, the rock cuttings circulated from the well are primarily carbonate sand.
- The drilling contractor continues to circulate the pilot hole with the bit positioned at 3,230 feet bpl. The top of dredge material is at a depth of 3,241 feet bpl.





**Date:** October 24, 2011

FDEP UIC Permit #:0293962-001-UC

**Project:** FPL Turkey Point EW

Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch Starting Depth: 3,241 feet bpl

Ending Depth: 3,241 feet bpl

Weather Day: Partly Cloudy and Warm

Recorded By: Eric Meyer/Sally Durall

Weather Night: Clear, Windy, and Cool

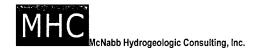
Activity: Pilot Hole Drilling

- 0700 Yesterday, the pilot hole was advanced to a depth of 3,246 feet below pad level (bpl). The drilling contractor is presently circulating the pilot hole with the bit positioned at 3,230 feet bpl to restore pressure to the wash pipe. Dredging is currently at 3,241 feet bpl. Dredge cuttings produced from the pilot hole are primarily carbonate sand.
- 0730 The drilling contractor is dredging at 3,237 feet bpl.
- 0800 The drilling contractor is starting his run down-hole in roughly 0.2 foot increments starting at the depth of 3,230 feet bpl. The wash pipe pressure is steady at 139 pounds per square inch (psi). The top of the fill is at 3,232 feet bpl based on wash pipe pressure decline.
- 0818 The drilling contractor is surging the pilot hole with the bit positioned at 3,229 feet bpl.
- 0950 The drilling contractor completed dredging to 3,235 feet bpl before pulling the bit up to restore wash pipe pressure.
- 1030 The drilling contractor completed dredging to 3,236 feet bpl before pulling the bit up to restore wash pipe pressure.
- 1230 The drilling contractor completed dredging to 3,237 feet bpl before pulling the bit up to restore wash pipe pressure.
- 1430 The drilling contractor continues dredging in the interval from about 3,230 feet to 3,237 feet bpl. The drilling contractor is moving the bit rapidly up and down in this interval without leaving the bit on bottom. Loss of pressure to the wash pipe is about 20 psi each run, but recovers quickly. Surging is also being applied periodically by turning the air compressor off and on.
- 1630 The drilling contractor continues dredging down to 3,237 feet bpl using the rapid up/down process previously noted.
- 1930 The drilling contractor is dredging the pilot hole at a depth of 3,237 feet bpl.
- 2030 The drilling contractor is dredging the pilot hole between the depths of 3,234 to 3,244 feet bpl.
- 2320 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,239 feet bpl.





- O150 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,239 feet bpl.
- O325 The drilling contractor is dredging the pilot hole between the depths of 3,239 to 3,244 feet bpl.
- 0520 The pilot hole is currently filling in at a depth of 3,235 feet bpl.
- 0700 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,241 feet bpl.





**Date:** October 25, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

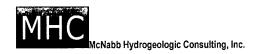
Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,241 feet bpl Ending Depth: 3,237 feet bpl

Weather Day: Clear and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Cloudy, Light Rain, Cool

**Activity:** Pilot Hole Drilling

- O700 Yesterday, dredging the pilot hole was generally over the interval from 3,225 to 3,241 feet below pad level (bpl). The night shift reported drilling to a depth of 3,247 feet bpl, but they were unable to keep the hole open to that depth. Dredging is currently at a depth of 3,241 feet bpl. Dredge cuttings produced from the pilot hole are primarily carbonate sand and some limestone.
- O930 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,241 feet bpl.
- 1215 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,240 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole was dredged to a depth of 3,247 feet bpl.
- 1540 The borehole has filled in to a depth of 3,240 feet bpl, where dredging is taking place.
- 1730 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,240 feet bpl.
- 1745 The drilling contractor has stopped dredging the pilot hole to conduct maintenance on the rollers for the top head unit.
- 1940 Resume dredging the pilot hole.
- The pilot hole is currently filling in to a depth of approximately 3,238 feet bpl. The drilling contractor is dredging the pilot hole between the depths of 3,238 feet to 3,245 feet bpl.
- The drilling contractor continues to dredge the pilot hole. The pilot hole is currently at a depth of 3,239 feet bpl.
- The drilling contractor continues to dredge the pilot hole. The pilot hole is currently at a depth of 3,240 feet bpl.
- 0530 The drilling contractor continues to dredge the pilot hole. The pilot hole is currently at a depth of 3,240 feet bpl.
- 0700 The drilling contractor continues to dredge the pilot hole. The pilot hole is currently filling in at a depth of 3,237 feet bpl.





**Date:** October 26, 2011 FDEP UIC Permit #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch
Starting Depth: 3,237 feet bpl
Ending Depth: 3,252 feet bpl

Weather Day: Clear and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Partly Cloudy and Warm

Activity: Pilot Hole Drilling

- O700 The pilot hole was advanced to a depth of 3,247 feet below pad level (bpl) yesterday. Dredging continues from approximately 3,237 feet to 3,247 feet bpl. Dredge cuttings produced from the pilot hole are primarily carbonate sand and some limestone. The pilot hole is currently filled in to a depth of 3,237 feet bpl.
- O930 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,238 feet bpl.
- 1130 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,238 feet bpl.
- 1330 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,242 feet bpl.
- 1530 The drilling contractor continues dredging the pilot hole. The pilot hole is currently at a depth of 3,252 feet bpl; however, the drilling contractor is losing air pressure at 3,252 feet bpl and is working the interval from approximately 3,242 feet bpl to 3,252 feet bpl.
- 1730 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,250 feet bpl.
- 1930 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,240 feet bpl.
- 2140 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,237 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,238 feet bpl.
- The drilling contractor continues dredging the pilot hole between the depths of 3,238 feet to 2,245 feet bpl.
- O420 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,255 feet bpl.
- 0500 The drilling contractor is drilling the pilot hole is at a depth of 3,265 feet bpl.
- The drilling contractor is dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,252 feet bpl.



,	CLIENT	F.P.L	Propo ———Docks	osed Turke et Nos. 52	y Point U -040-and	Inits 6 and	7 _ DATE	10-	20 -	20 i	/		JOB	<u> 11771</u>	
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Crew Assignment	Employee	- Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours	<b>!</b>	Description		Unit#	Status	Item#	Cost Code	Labor Activity Short Duration Job	Hours
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0.6	1	•	'v	1 .7		12						8	11250	Training - Job Chargeable	
<u> </u>	B1/14 CRA	W1-014),	X	12		16	<b>                                     </b>					9	11300	Site Clean up	
ļ						}	] ]			Į		10	11350	Install Sound Walls	
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			+				Standby	SB	Demobili		M_	13	11500	Install Roadway & Drill Pad	
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Quantity		Description	n				From	То	Circle One	Iter	n#	18	13050	Production Well Installation	
									AM PM			19	13100	Install Conductor Pipe	
	SAFETY	カッテム・							AM PM			20	13150	Drill Pilat Hale	
									AM PM	-		21	13200	Geophysical Logging & Other Testing	
									AM PM			22	13250	Aquifer Zone Testing	
$\kappa$	m, , , , , , , , , , , , , , , , , , ,								AM PM			23	13300	Borehole Abandonment/Cement Plugs	
$\mathcal{U}$	EYEANS	1-HCE DA	201EC	TION	<u>/                                    </u>				AM PM			24	13350	Reaming	
		•							AM PM			25	13400	Under Reaming	
									AM PM			26	13450	Install Casing	
2	FOOT PROS						L		AM PM			27	13500	Install Screen	
	tout pur	1601 PERCY					l		AM PM			28	13550	Gravel Pack The Well	
							ļ ———		AM PM			29	13600	Install Annular Seaf	ļ
<del></del>							<b></b>		AM PM			30	13650	Water Watching	ļ
	DINICH DOINET .	HICH DOES	12.100	1 1 -0	-0 -0			ļ-—-	AM PM			31	14050	Well Development Air Lift and Swab	<del> </del>
	PINCH POINT !	111001 11000	11465	. 204	SER SOT	1677	<del> </del>	<u> </u>	AM PM			33	14100	Disposal of Fluids & Cuttings Furnish & Install Test Pump and Discharge	
	HAND SAFETY!	OPEI							AM PM			34	14200	Development Pumping	<del> </del>
	THE PROPERTY OF	P 7							AM PM			35	14250	Test Pumping	1
									AM PM	<del>.</del>		36	14300	Disinfection and Chlorination	
							·		<del></del>			37	19050	Offsite Activities Mob/Demob	
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		COMMENTS -	EVENTS - CONDIT	IONS - CHANGES	- UTHER INFO	RMATION					_	39	19150	Administration	
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323K	BPL LOST WASH RIG	- B KEE	105	INC	ARR	<u>pas</u>	<u>-28€;</u>					43	88000	Equipment Repairs	
000 -	Linkste Ber	A. 18 A.				•	`					44	90170	Damages	<del> </del>
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<i>ul ~</i>	_											$\sim$ $\sim$		01	

PAYROLL

Client's Signature



	CLIENT	FPL				Inits 6 and	7 DATE	10	7-20.	-20:	11		10B#		
	<del></del>	FPL EW-1				<del>52-041</del> Page 17 c	of 35	Th	ur. N	Wah	15	100	CITE (OCATION	Turkey Point	
	JOBSITE NAME	PERSONNEL EMPLOYED TODAY					-		T DEPLOYED TO	//	. –	108		ALLY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew	_		Per Diem?	Onsite	Offsite	Total	l [			11-1-1	S	Item#	Cost Code	. Labor Activity .	Hours
Assignment	Er	mployee - Full Name	(X)	Hours	Hours	Hours		Description	1	Unit#	Status	1	10000	Short Duration Job	
prilivo	7	10 -1 -		10		200	1					2	11100	Onsite Mob/Demob	
	Vanny	Keeleg Ramirez	$\lambda$	12		12						3	11150	Job Preparation	
MR	1/5/	170, -	V			. ~						4	11200	Safety Meeting	
1045	Michael	Kamirez	X	12		12						5	0005	Training - Overhead	
DOF		eetham	~	10		17						6	0006	Shop - Overhead	
	DOD F	eetham	X	12		12	<b> </b>	·····-				7	0007	Maintenance - Overhead	
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1	Igor He	yev	X_	12		12						9 _	11300	Site Clean up	
	V /	<b>,</b>									1	10	11350	Install Sound Walls	
							l					11	11400	Install Decon Pad	
							Working	WK	Mobiliza		MB	12	11450	Install Surface Casing	
	-						Standby	SB	Demobiliz		DM	13	12050	Install Roadway & Drill Pad Test Hole Drilling	
			İ				Down in Shop	DN	Available i		AV	15	12100	Geophysical Logging & Other Testing	
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		MATERIALS USED TODAY						TIME OF	CTIVITY BY ITEM	1#		17	12200	Borehole Abandonment	
Quantity		Description			<del></del>	ς	From	То	Circle One	lter	m#	18	13050	Production Well Installation	
Quantity	0 1						7,0		AM PM		-	19	13100	Install Conductor Pipe	
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		_							AM PM			26	13450	Install Casing	
- 1	11/	O(1)							AM PM			27	13500	Install Screen	
#2	Foot 1	Protection							AM PM			28	13550	Gravel Pack The Well	
•	-								AM PM			29	13600	Install Annular Seal	
									AM PM			30	13650	Water Watching	
	PPC. HI	LADED SHEET	25 1	weip	F-C-				AM PM	_		31	14050	Well Development Air Lift and Swab	
	1 - 1 - 13								AM PM			32	14100	Disposal of Fluids & Cuttings	
	LEADERS 1	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							AM PM			33	14150	Furnish & Install Test Pump and Discharge	
	10000	CADES SAFE							AM PM			34	14200	Development Pumping	
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LUI	- biblac	dredging. Inventor	10- 07	200	<u> </u>	OFFE	<del></del>	^_	<del></del>			42	19650	Change Order Activities	
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20-	<del>, , , , , , , , , , , , , , , , , , , </del>	11	<del>y</del>	216	<u>un</u>	<u> Laur</u>	1,000	7	<del>/ /</del>	1	· · · · · · · · · · · · · · · · · · ·	44	90170	Damages	
Trai	ned on	welding. I	patr	1110	40	11101	ch au	. The	e to	0/	- 1	45	90200	Job Superintendent	
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rack	<i>-</i>													TOTAL HOURS	
A			-98-1	rf.								L		- Jh-	
staller's Signature			-20-1 Date		Client's Signatu	ıre	PAYROLI			Date		uperv/sor's Sign	ature		Date
C DSR1 082209							PAIKUL					1			



	CLIENT_	F.P.L				nits 6 and	7 DATE	10-	21-2	2011			108	11771	
		Ew./	DOCK			<del>52-041</del> Page 18 o	f 35	FRI	21-2	·				_	
	JOBSITE NAME	PERSONNEL EMPLOYED TODAY						EQUIPMEN	NT DEPLOYED TO	DAY		JOE	ISITE LOCATIO	DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew		<u> </u>	Per Diem?	Onsite	Offsite	Total	· ·		· · · · · · · · · · · · · · · · · · ·	,		Item#	Cost Code	Labor Activity	Hours
Assignment	Employe	ee - Full Name	(x)	Hours	Hours	Hours	l I	Description	}	Unit #	Status	1	10000	Short Duration Job	
	<b></b>		1	<u> </u>	·	<del> </del>						2	11100	Onsite Mob/Demob	
MOULER	Bosi+ G	U Lamau	X	12		12						3	11150	Job Preparation	
474.0												4	11200	Safety Meeting	
1/7	VLADI	SHIMOV	X	12		12						S	0005	Training - Overhead	
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	l .	•		10								8	11250	Training - Job Chargeable	
BC	BILLY CLA	wforn.	X	12		12	_					9	11300	Site Clean up	
	T .		1	0	ĺ	8						10	11350	Install Sound Walls	
JP.	JAMES PA	YNE	<u>X</u>	8			l <b> </b>					11	11400	Install Decon Pad	<u> </u>
							Working	WK	Mobiliza	ition	МВ	12	11450	Install Surface Casing	
				_			Standby	SB	Demobiliz		DM	13	11500	Install Roadway & Orill Pad	
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L					<u> </u>		Down on Site	DN	Available (	on Job	AV	15	12100	Geophysical Logging & Other Testing	
		MATERIALS USED TODAY						TIME OF	ACTIVITY BY ITEN	1.0		16	12150	Aquifer Zone Testing	
	T	2 1-1-1		-								17	12200	Borehole Abandonment	-
Quantity		Description					From	То	Circle One	Ite	n#	18	13050	Production Well Installation	
	CAPETU "						<u> </u>		AM PM			20	13100	Install Conductor Pipe Drill Pilot Hole	
	SAFETY N	776.		·				_	AM PM			21	13150	Geophysical Logging & Other Testing	
									AM PM			22	13250	Aquifer Zone Testing	<del></del>
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0	OUTBUTAN	POWER LIN	د ہے س						AM PM		<del></del>	24	13350	Reaming	
	OVERDERD	PUWER LIN	<u> </u>						AM PM			25	13400	Under Reaming	
(2)	IN CODYING	IN COIN U	1547	t LA 12 10					AM PM			26	13450	Install Casing	
	00000000	170 0013 0	<u> </u>						AM PM			27	13500	Install Screen	
									AM PM		-	28	13550	Gravel Pack The Well	
									AM PM			29	13600	Install Annular Seal	† <del></del>
	HIGH DRESS !	NES: PPE: H.	ANIA S.	BEETL	, ,				AM PM			30	13650	Water Watching	
	THE PROPERTY OF		<del>/////////////////////////////////////</del>	- Larl	<del>'</del>	_			AM PM	_		31	14050	Well Development Air Lift and Swab	
	LUADER AND .	TRACKHOE SAL	GTY!				<u> </u>		AM PM			32	14100	Disposal of Fluids & Cuttings	
	_			_					AM PM			33	14150	Furnish & Install Test Pump and Discharge	
	Du	IMP TRU	CK.	(5)	ł .				AM PM			34	14200	Development Pumping	
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	E1113: 11	OOPM TO E	1004	2 m					AM PM			36	14300	Disinfection and Chlorination	
												37	19050	Offsite Activities Mob/Demob	
		COMMENTS -	VENTS - CONDIT	IONS - CHANGE	S - OTHER INCO	PMATION						38	19100	Shop	
		COMMENTS	VEITI 3 - CONON	TONG - CHANGE	3-OTHER WATO	шинпон						39	19150	Administration	
		)	1		-1	_			1 _			40	19550	Other Activities Standby	
DKEDG	1106 12 -	FBIT: FRO	m /	<u> 322</u>	<u>8 B</u>	PL_	10- S	230	1 31	7 L ,		41	19600	Fishing for Lost/Broken Tooling	
					,							42	19650	Change Order Activities	
SERVIC	E TOP DRI	VE 100% /	1EIPI	NG	<u> </u>		EAN !	4P 1	SAD.			43	88000	Equipment Repairs	-
			•					'			I	44	90170	Damages	
MOK	KING PIT!											45	90200	Job Superintendent	<del></del>
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NST Hel's Signature	700007 **		Date	7	Client's Signatu	ire 6	PAYROLL		<del></del>	Date	S	upervisor's Sign	ature	``	Date
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## ayne

Installer's Signature LCC DSR1 082209

### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 1 Page 19 of 35

DATE 10-21-11
FI NIGHT

Supervisor's Signature

108# 11771 .00ation TP

	PERSONNEL EMPLOYED TODAY						EQUIPMEN	IT DEPLOYED TO	DAY			C	DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew	Employee - Full Name	Per Diem?	Onsite	Offsite	Total		Description		Unit#	Status	item if	Cost Code	Labor Activity	Hours
Assignment	Employee - run Name	(x)	Hours	Hours	Hours		Description		Onit #	Status	1	10000	Short Duration Job	
PSILLE	DIVI	3/	12		10						2	11100	Onsite Mob/Demob	
	Warry Keeley	<b>/</b> ~	( ~		12			1			3	11150	Job Preparation	
8.0	Mill I K	1	10								4	11200	Safety Meeting	
117W<	MICHAEL Kaninez	<b>X</b>	12		12	1					5	0005	Training - Overhead	
77	To be and		10		1						6	0006	Shop - Overhead	
1	L.GOR TOPUV	<b>x</b>	12		12			]			7	0007	Maintenance - Overhead	
											8	11250	Training - Job Chargeable	
											9	11300	Site Clean up	
											10	11350	Install Sound Walls	
										1	11	11400	Install Decon Pad	
						Working	wĸ	Mobiliza	tion	МВ	12	11450	Install Surface Casing	
					1 1	Standby	5B	Demobiliz	ation	DM	13	11500	Install Roadway & Drill Pad	
						Down in Shop	DS	Available is		AY	14	12050	Test Hole Drilling	
1						Down on Site	DN	Available o		AV	15	12100	Geophysical Logging & Other Testing	
L				<u> </u>		20111011310	-11	, .vginable 0			16	12150	Aquifer Zone Testing	<del> </del>
	MATERIALS USED TODAY						TIME OF	CTIVITY BY ITEM	#		17	12200	Borehole Abandonment	<del> </del>
Quantity	Description					From	То	Circle One	Ite		18	13050	Production Well Installation	<u> </u>
Quantity	Description					From	10		nte		19	13050		
	SAFETY MEET. SAFETY US PRODUCT LADET SAFETY DITUTUL HONE	エレム	,			<b> </b>		AM PM			20	13150	Install Conductor Pipe Drill Pilot Hole	<del> </del>
1.4	J. Trees					l <b></b>		AM PM				<del></del>	<del></del>	
to 1	SAFUTY WE PEODUC-	TIV AT	4			<del>                                   </del>					21	13200	Geophysical Logging & Other Testing	<del>                                     </del>
	7 7 7 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7 5 7							AM PM			22	13250	Aquifer Zone Testing	-
	LADET CACETO					<del>  </del>		AM PM			23	13300	Borehole Abandonment/Cement Plugs	-
<b>-</b>	199 - JAP 01/					<b> </b>		AM PM			24	13350	Reaming	<del>                                     </del>
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7-5-	DITOR PLOYING	17 /	70.	10.50	1 ) 14/	7		AM PM			26	13450	Install Casing	<del></del>
								AM PM			27	13500	Install Screen	
ļ								AM PM			28	13550	Gravel Pack The Well	
	ppe - House Keepfar -	LANDER	- 5 AB	cry-	å		,	AM PM			29	13600	Install Annular Seal	
								AM PM			30	13650	Water Watching	
1	NEW PressUR 1-0:05 - MI	y your	1 155°	7				AM PM			31	14050	Well Development Air Lift and 5wab	
								AM PM			32	14100	Disposal of Fluids & Cuttings	
					-			AM PM			33	14150	Furnish & Install Test Pump and Discharge	
			_					AM PM			34	14200	Development Pumping	
								AM PM			35	14250	Test Pumping	
								AM PM			36	14300	DisInfection and Chlorination	
											37	19050	Offsite Activities Mob/Demob	
	COMMENTS - EV	IENTS _ COMPIT	IONS - CHAMPE	- OTHER INFO	PMATION						38	19100	Shop	
				41	,						39	19150	Administration	
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·										į	43	88000	Equipment Repairs	
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	111										-	<b>\</b>		

**PAYROLL** 

Client's Signature



	CLIENT F, 771	Propo Pock			52-041			· ~ 22				JOB #	11771	
	JOBSITE NAME				Page 20 c		51	4T 131	745		109	SITE LOCATION		
	PERSONNEL EMPLOYED TODAY					-	EQUIPME	NT DEPLOYED TO	DAY		108		PAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew		Per Diem?	Onsite	Offsite	Total	1					Item#	Cost Code	Labor Activity	Hours
Assignment	Employee - Full Name	(X)	Hours	Hours	Hours		Description		Unit#	Status	1	10000	Short Duration Job	1.00.5
			<del>i</del>		1	l <del> </del>			-		2	11100	Onsite Mob/Demob	<del></del>
INDUTER	Bosit Gulomov	*	12		12						3	11150	Job Preparation	
		.,	in		12						4	11200	Safety Meeting	
1/1	VLAD ISHIMOV	X	12		12						S	0005	Training - Overhead	
		X	12	}	12						6	0006	Shop - Overhead	
51	JOAN LOPEZ						<del> </del>				7	0007	Maintenance - Overhead	
		×	12		12						8	11250	Training - Job Chargeable	
18 <u> </u>	BILLY CRAWFORD.		ļ								9	11300	Site Clean up Install Sound Walls	<del> </del>
T-0	JAMES PAYNE.		Ų		4						10	11350 11400	Install Decon Pad	
JP.	JAMES PATTICE.					Working	wĸ	Mobiliz	ation	мв	12	11450	Install Surface Casing	-
·						Standby	SB	Demobili		DM	13	11500	Install Roadway & Drill Pad	
		· · · · · · · · · · · · · · · · · · ·			-	Down in Shop	DS	Available		AY	14	12050	Test Hole Drilling	
					]	Down on Site	DN	Available		AV	15	12100	Geophysical Logging & Other Testing	
<u> </u>		<u> </u>	<u></u>		<u> </u>	· • • • • • • • • • • • • • • • • • • •					16	12150	Aquifer Zone Testing	
	MATERIALS USED TODAY						TIMEOF	ACTIVITY BY ITE	vi #		17	12200	Borehole Abandonment	
Quantity	Description					From	То	Circle One	lte	m #	18	13050	Production Well Installation	
	200000							AM PM			19	13100	Install Conductor Pipe	
	SAFETY MITE!							AM PM			20	13150	Drill Pilot Hole	
								AM PM			21	13200	Geophysical Logging & Other Testing	
								AM PM			22	13250	Aquifer Zone Testing	_
10	BAD WEATHER DE	1444	,					AM PM			23	13300	Borehole Abandonment/Cement Plugs	
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İ I	REMIN	MED						AM PM			25	13400	Under Reaming	
						l		AM PM			26	13500	Install Casing Install Screen	
2	DRIVER DISTRACTI	OK/ C)						AM PM			28	13550	Gravel Pack The Well	
	PRIVE DISTURNICIO	<u> </u>						AM PM			29	13600	Install Annular Seal	
								AM PM			30	13650	Water Watching	_
	<b>A</b>							AM PM			31	14050	Well Development Air Lift and Swab	
	SUMP TRUCK.	(5)						AM PM			32	14100	Disposal of Fluids & Cuttings	
								AM PM			33	14150	Furnish & Install Test Pump and Discharge	
								AM PM			34	14200	Development Pumping	
80	Eller Die	,						AM PM			35	14250	Test Pumping	
	Ellis - 7:00AM - TO	<u> ز کر ۱۰۰</u>	30 p	n,				AM PM			36	14300	Disinfection and Chlorination	
	•										37	19050	Offsite Activities Mob/Demob	
	COMMENTS -	EVENTS - CONDIT	IONS - CHANGE	S - OTHER INFO	RMATION						38	19100	Shop	+
<u> </u>					7						39 40	19150 19550	Administration Other Activities Standby	
Yo = v	SING 12 4 BIT	1 En	om 1	27	3012	201 -	Te	2 3 2	234	1202	41	19600	Fishing for Lost/Broken Tooling	+
1 '			•			•				1	42	19650	Change Order Activities	
SEAL	ED ROOF ON BET	WEE	N M	106	HOL	ACE	HE	LD.	EII	ا م ہے ۔	43	88000	Equipment Repairs	+
						· / <u>-</u> · ·	<del>/                                    </del>		_ \ /	$\hookrightarrow$ $+$	44	90170	Damages	T
CLEAN	UP JOB SITE;										45	90200	Job Superintendent	
					,		-						Lunch	
_													TOTAL HOURS	
M	inin 10	)^2_2_	11									A	nd Sten	
'nature		Date		Client's Signatu	ıre F	PAYROLL			Date	S.	pervisor's Sign	lature		Date



	CLIENT FPL	Propo	seed Turke	av Point I	Jnits 6 and	17		1.22 1					11-71	
				•	52-041	DAT	E	7/22/	<u> </u>		ı		<u>. 1/77/</u>	
	JOBSITE NAME EW)				Page 21 d	of 35	5年	TW	1,9 115	SNIK	JOB	SITE LOCATION	· Tholeey Point	-
	PERSONNEL EMPLOYED TODA	Υ					EQUIPMEN	NT DEPLOYED TO	DAY				DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew	Employee - Full Name	Per Diem?	Onsite	Offsite	Total	1 [					Item#	Cost Code	Labor Activity	Hours
Assignment	cmployee - run varie	(X)	Hours	Hours	Hours		Description		Unit#	Status	1	10000	Short Duration Job	
011.	0	X	12		12						2	11100	Onsite Mob/Demob	
Duller	George Haga				12	<b>↓</b>					3	11150	Job Preparation	
FIZ	James Payne Andrey Popor	v	12		12			1			4	11200	Safety Meeting	
	James Pagne	<u> </u>			-	┨┠───					5	0005	Training - Overhead	-
A.P.	Awayer Prone	X	12		12						7	0006	Shop - Overhead  Maintenance - Overhead	
700	1 . 9129 1 CP31			_	<del>-</del>	1					8	11250	Training - Job Chargeable	-
John .	Ding McDownell	X	12		12	11				l	9	11300	Site Clean up	
						1 -					10	11350	Install Sound Walls	
				ĺ							11	11400	Install Decon Pad	
						Working	wĸ	Mobili2	ation	мв	12	11450	Install Surface Casing	i
						Standby	5B	Demobili	zation	DM	13	11500	Install Roadway & Drill Pad	
						Down in Shop	DS	Available	in Yard	AY	14	12050	Test Hole Drilling	
				}		Down on Site	DN	Available	on Job	ΑV	15	12100	Geophysical Logging & Other Testing	
	MATERIALS USED TODAY						TIME OF A	ACTIVITY BY ITEM	A #		16	12150	Aquifer Zone Testing	
					<del></del>						17	12200	Borehole Abandonment	
Quantity	Descriptio		······································			From	То	Circle One	Ite	m#	18	13050	Production Well Installation	<u> </u>
	1st Sarley Meeting:	Safe	WAVE	· hail	7 Ac		<del> </del>	AM PM			19	13100	Install Conductor Pipe	
	1 sarrey meeting.	- CONC			-11	<b>.</b>	ļ	AM PM			20	13150	Drill Pilot Hole	
	and sorte mealing!	2. H. S	c <c< td=""><td> 54</td><td>ict-ca</td><td>l</td><td><del> </del></td><td>AM PM</td><td></td><td></td><td>21</td><td>13200</td><td>Geophysical Logging &amp; Other Testing</td><td>ļ</td></c<>	54	ict-ca	l	<del> </del>	AM PM			21	13200	Geophysical Logging & Other Testing	ļ
	2 Saffag Mcorius	MII QU	<u> </u>		<del>``'</del>	<b>┧├──</b> ─	<del> </del>	AM PM			23	13250 13300	Aquifer Zone Testing  Borehole Abandonment/Cement Plugs	
	•					<b>                                     </b>		AM PM	_		24	13350	Reaming	<del> </del>
	,		_			1	<u> </u>	AM PM			25	13400	Under Reaming	
								AM PM			26	13450	Install Casing	
						1 h		AM PM			27	13500	Install Screen	
	-							AM PM			28	13550	Gravel Pack The Well	
						]		AM PM			29	13600	Install Annular Seal	
	Pinch Points, Trip have	<u>Pi CS</u>						AM PM			30	13650	Water Watching	
	0		0.0		1.			AM PM			31	14050	Well Development Air Lift and Swab	
	FINCH POINTS, Trip have	ivd5 ,	VE	~ YZOJ	into (	l L		AM PM			32	14100	Disposal of Fluids & Cuttings	
						<b>                                     </b>		AM PM			33	14150	Furnish & Install Test Pump and Discharge	
	Equipment, overhead Sarte	7,40	<u>le 51</u>	11616		<b>                                     </b>		AM PM			34	14200	Development Pumping	
	when grinding					l		AM PM			35 36	14250	Test Pumping	
1	<u> </u>					I	<u> </u>	AM PM			36	14300	Disinfection and Chlorination Offsite Activities Mob/Demob	
											38	19100	Shop	
	COMMENTS	- EVENTS - CONDIT	IONS - CHANGE	S - OTHER INFO	RMATION						39	19150	Administration	
13	1	1	,	. 1					<del> </del>		40	19550	Other Activities Standby	
_ (ON)	tinue to duedge u	1/12	47	but	From	322	o byte	323	74 bo	/	41	19600	Fishing for Lost/Broken Tooling	
/		, ,		- +	, ,	<i>i</i> ,					42	19650	Change Order Activities	
LOSE	air Diesuic pull o	D 2	8 RT	Civi	Culat	e cl	can	. Sive	rao		43	88000	Equipment Repairs	
0.1	, , , , , , , , , , , , , , , , , , , ,	, ,	-1-	E. 1. C.	a 1	4	_	1'0	( / m	,	44	90170	Damages	
anc	mor Enga trin, mo	°C.S	CH	our c	Naviv	ge no	tuse,	<u>, 1791</u>	りたい		45	90200	Job Superintendent	
bolt	s on side allo	<i>~</i> —	<u> </u>		~l		1 -	- 1.		1		_	Lunch	
10011.	air presence pull of mop Enga trin, mo s ow side plate of	riop	Driv-	( 40	040	sp Tu	e Le	-K			L		TOTAL HOURS	<u></u>
			***************************************											
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	100 /00	/22/1	/								_		tal Then	7
nstaller's Signature	10	Date		Client's Signatu	ıre				Date	Si.	pervisor's Signa	ature —	10.1	Date
C DSR1 082209	,					PAYROL	L		-44	.30	F-14-04 3 948111		)	200

### (layne)

	CLIENT	F.P.L				nits 6 and	7 DATE	10	- 23 - DAY	-20	11		JOB	<u> 11771</u>	
		EW-1	DOCK			<del>52-041</del> Page 22 o	of 35	SUN	DAY	5		107	ISITE LOCATION	$\mathcal{T}, \mathcal{P},$	
	JOBSITE NAME	PERSONNEL EMPLOYED TODAY					-	EQUIPMEN	IT DEPLOYED TO	DAY		106		DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Crew			Per Diem?	Onsite	Offsite	Total	1					Item#	Cost Code	Labor Activity	Hours
Assignment	Employee -	Full Name	(x)	Hours	Hours	Hours	11	Description		Unit#	Status	1	10000	Short Duration Job	
20.1/	D - 1. C			12		12						2	11100	Onsite Mob/Demob	
DUITE	Bosi+ Gul	emer	_X			12	<b> </b>					3	11150	Job Preparation	
				12		12			!			4	11200	Safety Meeting	
VI	VUAD ISHI	mov	X	15	À	, –	<b>                                     </b>					5	0005	Training - Overhead	
457	TAN LOOK			12		12	1 1					7	0006	Shop - Overhead  Maintenance - Overhead	
<u> </u>	JOAN LOPE Billy CRA	<u> </u>	_X_				<b>                                     </b>					8	11250	Training - Job Chargeable	<del> </del>
RY	Bill con	WEAR N	ν	12		12	<b>!</b>					9	11300	Site Clean up	
	DILL CKA	<u> </u>		,		` ` `	l				-	10	11350	Install Sound Walls	
											İ	11	11400	Install Decon Pad	
			<u> </u>			<b> </b>	Working	WK	Mobiliza	ation	МВ	12	11450	Install Surface Casing	
			İ				Standby	SB	Demobili	zation	DM	13	11500	Install Roadway & Drill Pad	
							Down in Shop	DS	Available	in Yard	AY	14	12050	Test Hole Drilling	
							Down on Site	DN	Available	on Job	AV	15	12100	Geophysical Logging & Other Testing	
·			· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·						<del></del>	15	12150	Aquifer Zone Testing	
		MATERIALS USED TODAY						TIME OF	ACTIVITY BY ITEN	vi #		17	12200	Borehole Abandonment	
Quantity		Description					From	То	Circle One	lte	m#	18	13050	Production Well Installation	
	e a a								AM PM			19	13100	Install Conductor Pipe	
	SAFETY	MTG!							AM PM			20	13150	Drill Pilot Hole	
	•								AM PM		****	21	13200	Geophysical Logging & Other Testing	
									AM PM			22	13250	Aquifer Zone Testing	
0	00000			<b>n</b>					AM PM			23	13300	Borehole Abandonment/Cement Plugs	-
	OPERATINO	- CUT-DI-	1-51	7WS	<u> </u>		l		AM PM			24	13350	Reaming	
		(05000	, ,						AM PM			25	13400 13450	Under Reaming Install Casing	_
		SAFETY					<del> </del>		AM PM			26	13500	Install Screen	
	DAMELLOADE						}		AM PM		-	28	13550	Gravel Pack The Well	-
	PNEUMAT	C 10019	<del>-</del> ,						AM PM			29	13600	Install Annular Seal	-
]									AM PM			30	13650	Water Watching	
ļi							ļ		AM PM		-	31	14050	Well Development Air Lift and Swab	
	PPE: HAND	SAFETY! H	ucli m	DE SS	tine	٠,		<del></del> :	AM PM			32	14100	Disposal of Fluids & Cuttings	
	17 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	30 2 7 7 17	104 P	<i></i>	11100	2	l ————		AM PM			33	14150	Furnish & Install Test Pump and Discharge	
	LOADER SAR	DTY! DINC	H DOI	NT!					AM PM			34	14200	Development Pumping	
		•	-						AM PM			35	14250	Test Pumping	
	Ellis - 7:30	Dan - TO	>						AM PM			36	14300	Disinfection and Chlorination	
		· · · · · · · · · · · · · · · · · · ·										37	19050	Offsite Activities Mob/Demob	
		COMMENTS.	EVENTS - CONDIT	ONS - CHANGE	S - OTHER INFO	RMATION						38	19100	Shop	
												39	19150	Administration	
No.11	12 to B17	! From	1 ,	, , , l	0 mt	<b>~</b> •	2 9 7	., 1.	<b>7</b> ~ 1			40	19550	Other Activities Standby	
1314	1 C 4 B 17	FROM	<u>/ - 5</u>	460	Byl	10	<u> </u>	<u> </u>	<u> 3 % C.</u>			41	19600	Fishing for Lost/Broken Tooling	
2002	A	on lance	A . 5			NO.00	6:- 11	1-		1 13	j	42	19650	Change Order Activities	
15K (= 12)	GING KEE	P TUSTING	AIL	PRE	35	DKED	<u> </u>	1091	<del>~ -</del>	5 - 7		43	90170	Equipment Repairs	
Lirin	NG Ellis:	Clook D.	0 DM	À .	AD AV		ALL IE AT	1000	60	RAC	יער י	45	90200	Job Superintendent	-
12E1121	NU CIII)	CIETTO KI	is je F	: درا	MAL	<u> </u>	1000C	140	<u></u>	17110			30200	Lunch	
NOEN	GING 323	Winni 2	フマムり	RO	( . i	1.11 6	LEV V	SIDE	3.	BB	16-		1	TOTAL HOURS	
TYKEL	10110 DC3	-1-13-11 - J	<u> </u>	- <del>12   '</del>	<u> </u>	~ 111-1	747	// //	(_	₩ <b>'</b>	12	<u> </u>		1	
SALT	• •			-										. 1	3
	<u> </u>				***************************************							•		9. /	
AA ~		=											(	Vm	
2/200			23-1) Date								_				
tooder on the total	.0000		Date	·	Client's Signatu	ıre	PAYROLL			Date		Supervisor's Sign	nature		Date



Crew Assignment DIZTLLER

A.P.

Quantity

Installer's Signature

### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT_FPL				Inits 6 and	7	10	0/23	/11			108	, <i>11771</i>	
JOBSITE NAME EW-1				Page 23			N NI			JOE	SITE LOCATIO	N T.P.	
PERSONNEL EMPLOYED TODAY					-	-	T DEPLOYED TO	. ,		30.		DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
Employee - Full Name	Per Diem?	Onsite	Offsite	Total		Description		Unit#	Status	Item#	Cost Code	Labor Activity	Hours
	(X)	Hours	Hours	Hours	<b> </b>					1	10000	Short Duration Job	
GEORGE HAGA	χ	12		12						2 3	11100	Onsite Mob/Demob  Job Preparation	
	_/ •	<u> </u>		<del>  '                                   </del>	<b>!</b>					4	11200	Safety Meeting	
JAMES PAYNE	X	12		12	11					5	0005	Training - Overhead	
1		10	L.———	_ · _						6	0006	Shop - Overhead	
JAMES MCDONNELL	- X	12		12	<b> </b>					7	0007	Maintenance - Overhead	
autoney	×	12		12						8	11250	Training - Job Chargeable	
ANDREY POPOV		1		10	<b>!                                    </b>					9	11300	Site Clean up	
					<b>!</b>					10	11350	Install Sound Walls	
<del></del>				ļ	<b>                                     </b>			Ļ		11	11400	Install Decon Pad	
					Working	WK	Mobiliz		MB	12	11450	Install Surface Casing	
					Standby	SB	Demobil		DM	13	11500	Install Roadway & Drill Pad	
					Down in Shop  Down on Site	DS	Available Available		AY	14	12050	Test Hole Drilling	
	i				Down on Site	DN	Available	OU 100	AV	15	12100 12150	Geophysical Logging & Other Testing  Aquifer Zone Testing	
MATERIALS USED TODAY						TIME OF A	CTIVITY BY ITE	<b>VI</b> #		17	12200	Borehole Abandonment	
Description	-1777- <u>- 21</u> 0	**************************************			From	To	Circle One	Ite	m #	18	13050	Production Well Installation	-
							AM PM			19	13100	Install Conductor Pipe	
SAFETY MEETIN	VGS.	8					AM PM	_	_	20	13150	Drill Pilot Hale	+
							AM PM			21	13200	Geophysical Logging & Other Testing	
							AM PM			22	13250	Aquifer Zone Testing	
1		_					AM PM			23	13300	Borehole Abandonment/Cement Plugs	
1: PNEUNIATIC TO	<u> </u>	SA	FE7	<i>Y</i>			AM PM			24	13350	Reaming	
D' -1 0.1	ماطم		1101	Sice			AM PM			25	13400	Under Reaming	
2. The proper USE Port	aue	vent	11004	2005		***	AM PM		_	26	13450	Install Casing	
1 1							AM PM			27	13500	install Screen	
							AM PM			28	13550	Gravel Pack The Well	
Tick-					<del>  </del>		AM PM			29	13600	instail Annular Seal	
Sarroy Cop	125						AM PM			30	13650	Water Watching	
Over head sactor	1	Olive	- / ~	L			AM PM			31	14050	Well Development Air Lift and Swab	
ove per saper	1	PIN	در م	012	<del>                                   </del>		AM PM			32	14100	Disposal of Fluids & Cuttings	
Rotating Follow	Dunt	· /.	- 104	_	<b> </b>		AM PM			33	14150 14200	Furnish & Install Test Pump and Discharge Development Pumping	
Cy of pin	· VV I	<del>,</del>	9 6 61		<del> </del>		AM PM			35	14250	Test Pumping	
sargey high Dre	55 W	re L	ines		<b> </b>		AM PM			36	14300	Disinfection and Chlorination	
Saffay Top Over head Saffer Rotating Equipm. Saffay, high pres					<u> </u>					37	19050	Offsite Activities Mob/Demob	
										38	19100	Shop	
. COMMENTS - EV	ENTS - CONDITI	ONS - CHANGES	- OTHER INFO	RMATION						39	19150	Administration	
100 100 100	. 1 . 0	1/ 1	( )			. 1		2 2010		40	19550	Other Activities Standby	
nue to dredge	2   /كر	-74	oit_	from	3234	hol	40	3246	601	41	19600	Fishing for Lost/Broken Tooling	
and Octhor	- 1 -	1	- 0	. la 1	أ ٢			م) نہ	V. I	42	19650	Change Order Activities	
ace Rubber on 1	1040	-t. Nº	7 (1	<u>LW</u>	261MP	1-1	20 V	<u> </u>	can	43	88000	Equipment Repairs	
nd hand rails. Suc		mm	m		م ليا ه	1	1.1.			44	9D170	Damages	
102 11000 - 10019, 300	up c	1119P	177	<u>(S</u>	and C	25. K	TVIK			45	90200	Job Superintendent	
up an trash th	1049	hou	+ 11	catio	ON SO	natio	Sec	Liku	,			Lunch	
up an trash the Silt Fence through	- 1	<del></del>	<u> </u>	1	. , ,	A 2.11		/1 J ON		L		TOTAL HOURS	
L Sitt Fence through	owt	CO C	ation	✓.									
7. 4			· · ·									/	
10	123/1											1/12	

Supervisor's Signature

Client's Signature

**PAYROLL** 



Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041

CATE.		24/11
	MON	DAYS

1081 1771

JOBSÍTE	LOCATION
JOBSITE	LOCATION

	-			L-2011-t	003 En	closure	1 Page	24 01 3
OBSITE NAME	F	W-!						
			<del></del>					÷ .

FPL

CLIENT

FOUNDAMENT DESIGNATION TO DAY

DANY ACCOUNTING OF ACTIVITIES BY ITEM #

	Personnel Employed Today						EQUIPMEN	T DEPLOYED TOD	AY	_			DAILY ACCOUNTING OF ACTIVITIES BY I TEM #	
Crew	- 4 5	Per Diem?	Onsice	Offsite	Total		Description	1	Unix #	Simo	lem#	Cost Code	Labor Activity	Hours
Assignment	Emploγee - Fujl Name	(X)	Hours	Hours	Hours		neset ha ou		Olifen	31603	11.	10000	lihort Duration Job	
305//50					- ,,,,	1		1	1		2	11100	Shis te Mob/Demob	
DRILLER	BOSTT GULOMOV	K	12		. 12	ļ		- 1	l	<u> </u>	3	, 11150	lob Preparation	3-0000
	CAROL PROPERTY.	_			100						4	11200	Safety Meeting	
VI	VLAD ISHINOV	×	12		12						5	0005	Fraining - Overhead	
•	<del></del>	- X	12		12						5	: 0006	Ahop - Ovelhead	
JL	TOAN LOPEZ	<u> </u>	14		16		-				7	DAD7	Majntenance - Overhead	
	The second of th	1	B		8						8	11290	raining - Job Chargeobie	ļ
BC	BILLY CRAWFORD	i ×	_0.			l					9	11300	Die Cean up	-
	- Alexander - Alex	ļ									10	11350	Instalt Sound Walls	
					i i						1111	11400	Install Decon Pad	
						Working #	WK	" Mobiliză	tion	M6	12	11450	install Surface Casing	
1						Standby	62	Demob <b>il</b> i	ation	DM :	13	11500	nstall Roadway & Or Pad	
						Down in Shop	D5	Avallable	Yard	, AY	14	12050	Fest Hola Dr#Ing	
1					<u> </u>	Down on Site	ON	Avaliable	n Job	AV	13	C2108	Geophysical Logging & Olhar Testing	
	And the state of t				:	i <del>ji kamanan manakasani</del>					16	12150	Aquifer Zone Tesling	
	MATERIALS USED TODAY					<u>:</u>	TIME OF	ACTIVITY BY ITEM	*	_	17	12200	Boreho e Abandonmeni (.	ENGRAPHIA -
Quantity	Descr'pt <sup>†</sup> tin				0A-4-200-11-1	from [	Тр	. Circle One	ite	m II	18	13050	Production Well Installation	-
	93-14E-14-14-14-14-14-14-14-14-14-14-14-14-14-							AM PM			19	13100	install Conductor Pipe	
	SAFETY MTG:							AM PM			20	13350	Dril Plat Ha'a	``` : = ' · · ·
				<del></del>				AM PM			21.	13200	Geophysical Logging & Other Testing	
(7)	SLING SAFETY :							AM PM	-i		22	13250	Agulfer Zone Testing	<u> </u>
	3000 300 50					·		AM PM		·	- 23	1330D	Borehg's Atlandonment/Cement Plugs	
		-				<del></del>		AM PM			24	~ 13350	Reamina	
·		<del></del>						AM PM			- 19	13400	Under Rearring	<del>                                     </del>
(7)	USTNG PIPE PLU	CaC	CATO	CIV	B			AM PM	-		26		Jinslal Cosing	<del>`</del>
			7/17/	-4/	<del>نے نک</del> ا			AM PM			27	13500	Install Screen	<u> </u>
60	FILSE FROM 7.0		·	5 A	المحرين	. —		AM PM			28	13550	Sravej Pack The Wo J	1
الوستاسي	Ellis: FROM - 7:0	, O <i>M</i> /	<u> </u>	<u>د</u> د	-OOP"			AM PM		BONDON, ST. OR. JAC.	Z9	12500	Install Annular Seat	1
	HAND SAFETY: PIN							AM PM			- 30	13650	Water Watching	·
	MANY SAFETT: PLI	<u></u>	راد بری معم		JULY.			AM PM				14050	WET Development Arr Lift and Swab	
l.	anderly a large in par	. د ــــ	-A 1270	0	DE I			AM PM			32	14100	Disposal of Fluids & Cuttings	
	SAFETY , ASGA PRE	<u> </u>	1002	<u>} /-/</u>		<b> </b>	W. W. T				32	14150	Furnish & Install Test Pump and Discharge	
				•				AM PM			34	1420D	Development Pumping	
	i		·			<u>-</u>		AM PM	NAME OF TAXABLE PARTY.			14250	Lest Pumping	
ļi	DUMP TRUCK Q	7)						AM PM		-	, 35 36	- <del> </del>	Disinfection and Chronination	<del>                                     </del>
. <sub>y.</sub>	Darin PROCEE							AM PM	Carter and Company of the Company of	·	37	1430D	Distre Activities Mob/Demob	
	•							-				19050	Shop	
	COMMENTS -	EVENTS - COND	MONS - CHANGE	S - OTHER NF	RMATION						-20	19100	<del></del>	
- PROTECTION OF THE PROTECTION							anne pro-managiment	Dar Caral Ellis Control (1977)		90.00	39	19150	Administration .	<del> </del>
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													TOTAL HOURS	I

CSent's Signature PAYROLL

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Supervisor's Signature

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Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041

LOUSITE LOCATION

Labor Activity

JOBSITE NAME

EW-1

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CONTINUES DESCRIPTION

DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Short Duration Job

Onsite Mob/Demob ob Preparation

Jafety Meeting

Iraining - Overhead

#Asintenance - Overhead I raining - Job Chargeabie

Thep - Overhead

Lite Clean up Postal Sound Walk

Anstall Decon Pad Instal Surface Casing

11500 Insial Roadway & Drift Pad

Flest Hole Dilling

Aquifer Zone Testing

L'orchole Abandonment Production Welflosial airon

Install Conductor Pipe Dr. I Part Hole

Aquifor Zone Testing

(rave) Pack The Wol

install Annular Sea

Water Watching

Meaming.

Under Reaming

Jasta Casing Install Screen

(leophysical Logging & Other Testing

Geophysical Logging & Other Testing

fjorehole Abandonment/Cement Plyas

Well Development Ar Lift and Swab

Jurnish & Instal Test Pump and Discharge

Disposal of Fluids & Cuttings

Districction and Chionnation

E)Hsag Activities Mob/Demob

Development Pumping

Fest Pumping

4dministration

Jiher Activités Standby

Phange Order Activities

quipment Repairs

lob Superintendent Lunch

Darnages

Hishing for Lost/Broken Tooling

TOTAL HOURS

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PERSONNEL EMPLOYED TODAY

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Standby -	SB	Demob@zation	_ DM "
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Down on Sile	DN	Avaliable on Job	AV

TIME OF ACTIVITY BYSTEM #

	THE CONTRACTOR OF THE CONTRACT
Quentity	Description
	SHEETY MEETINGS:
	1: GRINDER SAFETY
	2. STOP WORK AUTHORITY
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	SARtey Topics
	right tool for the Right job, over head sartes
<b>.</b>	rotating Equip. high presure line. PRE
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

-day///wo-3238 to 32476/202E Resume and walls

Chain Salan

PAYROLL

Bearing Spain

Proposed Turkey Point Units 6 and 7 <u>Docket Nos. 52-040 and 52-041</u> L-2011-503 Enclosure 1 Page 26 of 35

JOB #	11	7	7/	

nor FPL

	JOBSITE NAME EN LY Z		011 000 =	110100010	1. ugo 20	TUE	- D4	75		JOBS	ITE LOCATION	1.1%	
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<u> </u>		~					AM PM			29	13600	Install Annular Seal	<b>.</b>
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	ENTRUCT DE CONTROL	731	من الله		cs water	1	AM PM	i -		32	14150	Furnish & Install Test Pump and Discharge	
	TITIPHAZAMOS - Tracking		CA HI	CATO	7,44		- AM PM	-10: (H7-0)		34	- 14200	Development Pumping	<u>L</u>
		·			· inter		AM PM	-		35	. 14250	Test Pumping	1 -
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	COMMENTS	- EVENTS - CON	OTTONS - CHANG	ES - OTHER IN	FORMATION	on at				39	19150	(Administration	<u>.</u> -
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PAYROLL



EW-1

JOBSITE NAME

### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 1 Page 27 of 35

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TUE MIGHT

JOBSITE LOCATION

	PERSONNEL EMPLOYED TODAY						EQUIPMEN	u piringaning	y <del>)</del>				-	DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
1! Crew		Per Diem7	Onsile	Offsite	Total				41-74-14			rem#	Casl Cade	Labor Activity	Hours
Assignment	Employee " Full Name	(X)	Hours	Hours	Hours		Description		Uria X	Status		1	10000	🏂 hort Duration Job	ľ
DRILLER		1.	1-				<b>^</b> -		100000000000000000000000000000000000000	200000	Ŀ	1	11100	Drisite Mob/Demob	<b>.</b>
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$\Delta \Delta_{n}$	JAMES PAYNE	X	12	1	12				F			3	0003	Iraining - Overhead	<u> </u>
- No			, ,	i				1	-		11-	5 <u> </u>	0005_	- hap - Overhead	<u> </u>
- 7 M	JAMES NEDONNELL	; <b>X</b>	12		15						1	7		Maintenance - Overhead	<u> </u>
مما	amagil and	\ \	12	1	1 5			. 1			I	<b>8</b> :	11250	Training - Job Chargeable	<del> </del>
A.P.	ANDREY POPOV	X	1. 4		12						L	8	11300	☐ Be Clean up	1
1.	-					_				·	-	10	11350	Install Sound Walls	142
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ļ	JULETY MECKETORY						<del> </del>	AM PM			- -	. 21	: 13200	Geophysical Logging & Other Tosting	1
į.								AM PM			-	22	13250	Agullar Zona Testing	1
								AM PM			-	23	13300	Trorehole Abandonment/Cement Plugs	
	D. QUICK-DISCONNECT	OTTAC	WAIFA	IT CO	VIDIFO	r = -		AM PM			-	24	13350	leaning	<del></del>
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ľ	2) OVERHEAD SAFET	7/					<del> </del>	AM PMT		<del></del>	<b>   </b>	26	13450	Instal Casing	1
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4	pinch paints , Los da	متهايط بهرك	7 - 20	15				AM PM				34	14200	Development Pumping	
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1150	Replace wheel on top drive service Topdiverleuc all											41	19600	Fishing for Lost/Broken Tooling	<u> </u>
1	Oil Levels. Resume dredging From 3234 bp/ to. 324/6											42	19650	Change Order Act Wiles	
011	Levels, Kesume o	red	11WG	<u></u>	on -	125Y	bp/	<u> </u>	767	OP.		43	88000	Equipment Repairs	
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13	11th 12/4 bit wave entire bation picking up trash.												(1	Aunch :	1

Client's Signature PAYROLL Dail.

Supërvisor's Signature

TOTAL HOURS



Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 1 Page 28 of 35

JOBSTENAME EWZ

OF ENTEPL

FOLUMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM I

	PERSONNEL EMPLOYED TODA	1				EQ	DEPLOYED TO	ODAY			Į.	DAFLY ACCOUNTING OF ACTIVITIES BY ITEM #		
Crew		Per Diem?"	Onsite	Offsite	Total	f <b>f</b>		i .	!	loem #	Cost Code	Labor Activity 1	H	lours .
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							S Availabl	-	AY	14	1205D -	Test Holo Ori Bing	<del> </del>	
						Down on Size	N Avallab	dot no a	′- ду	15	12100	Geophysical Logging & Other Testing	<u> </u>	
	MATERIALS USED TODAY				-	· ·	ME OF ACTIVITY BY TO	EM #		£5	12150	Aquifor Zone Testing	<del> </del>	
	MATERIALS USED TODAY									17	12200	Norehole Abandonment		
Quantity	Description Description	ก				From	o Circle One	_ 210	m# -	18	13050	Production Wellinstallation		
			,			ľ	AM PM			<b>29</b> 1	13100	(nslali Canducter Pipe	<u> </u>	
	Safety Meetings					1	AM PM			- 20	13150	Drill Pilot Hole		
异之						1 _	AM PM			21	13200	iScophysical Logging & Other Testing	<u> </u>	
	HURICANE PIER						AM PM	1		772	13250	'Aquiter Zone Testing		
				T W		· <del></del> -	AM PM	1	*	23	13360	Forehole Abandonment/Cement Plugs		
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7702	1 / 1 72						AM PM			_ ES	-13400	# Inder Reaming		
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							AM_ PM	1		28	13550	Strayei Pack The Well: .		
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	TOUR CITY SUPPLY TO DO THE TO CHE						-AM PM	1.		30	13550	Water Watching	-	
							AM PM	-		31	14050	We' Dave opment A'r L'ft and Swab	/	
	PPC - SLIP HAZAKOS- HI		ناور می وجی	Luck	1000	=}	AM PM			32	14100	Exposal of Fluids & Cuttings		
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10	5 60 6 35 F									43	88000	Equipment Repairs		
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נטקו ן	OR HURRICONE IN WELDERS	-C	1//LC:	>	i	MOVE	C457	ムヘンゼ	<u> </u>	1.		TOTAL HOURS		
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Client's Signature

PAYROLL



Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 1 Page 29 of 35

CLIENT

RECORD HARDA X 12 12 12 12 1 110 Security Control Cont		JOBSITE NAME EW-/	. 494 -4	_ WED NIGHT					JOBSITE LOCATION T.P.						
Deliver flavor to the property of the property		-					eimäkeinu üzeitürin 10574				DAILY ACCOUNTING OF ACTIVITIES BY ITEM #				
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### JAMES PANNE   X   12   12   12   12   12   12   12	DKILLEJ	GEORGE HAGA	X	J-1		12						<u></u>	11150 Lob Preparation		
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D. SAFE USE OF DIPE PLUGS  AM PUL  D. Operation of Equipment  AM PUL	1	SAFETY MEETIN	/c>5 :	,					AM _ PM		3_22.2.6.3000.4000.3	20	11150 Ura Piathole		
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Sarking Topics  AM PM  30 15550 Mile Washing Washington Full and Sub  Fall protection. 100% The acc. High pressure  AM PM  22 1000 Disposed if yet as a Curdings  Lines - Electrical Safter PRE. Night ares  Loader Sarker, Hand Signals  Comments events conditions changes other Arosmanion  Comments events conditions changes other Arosmanion  Comments events conditions changes other Arosmanion  Comments events conditions changes other Arosmanion  Comtinue diediging w/ 12/4 bit from 3238 bpl to 3265 bpl.  Paint shelves in both parts how ses, Scrubbed 175 Plane  Sweap Map MCCs, Sweap & Map Change how se, great  Wash PM  29 1860 Arosmania soal  30 15550 Wide washing  31 1450 Disposed if yet as Curdings  32 14250 Disposed in yet of substance in the substance in the part of substance in the substance in	-								_AM_ PM_	· · · · · · ·		Z7	13500 Install Screen	7	
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Fall protection, 100% Tit acc. High pressure  And Part		Sarting T	01/15						AM PM			30	13650 Wai er Watching		
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Continue declination of the from 3238 bpl to 3265 bpl.  Continue declination parts house, scrubbed from the following the follow		Fall protection 100% To	ir vec	Hit	sh poles	Sura		***************************************	AM PM			32'	14100 Disposal of Huids & Cuttings		
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Project: Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1





### EW-1 Pad Monitoring Well Water Quality Data Northeast Pad Monitoring Well

(NE-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000		Background Sampling
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4	
5/5/2011	1157	11,40	-2.52	81,400	27,500	52,350	31.2	
5/11/2011	1309	11,00	-2.12	76,800	31,600	51,200	29.7	
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5	
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7	
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6	
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3	
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5	
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5	
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2	
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9	
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9	
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7	
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7	
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5	
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6	
8/18/2011	1039	9.45	<b>-</b> 0.57	71,900	29,400	54,850	30.0	
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7	
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9	
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3	
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8	
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1	
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8	
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1	
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1	
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

\*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurance have been implemented.

Note: TOC elevation is: 8.88 feet NAVD 88

Project: Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1





### EW-1 Pad Monitoring Well Water Quality Data Southeast Pad Monitoring Well (SE-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1311	10.10	-1.51	81,600	30,200	57,800	29.9	Background Sampling
4/29/2011	1349	10.40	-1.81	86,700	33,100	55,000	30.4	
5/5/2011	1008	11.10	-2.51	83,000	29,500	54,700	29.9	
5/11/2011	1228	10.65	-2.06	78,200	30,100	52,600	30.1	
5/19/2011	1039	10.12	-1.53	75,200	30,000	51,100	29.8	
5/26/2011	1235	10.47	-1.88	73,890	31,200	53,800	29.9	
6/2/2011	1056	10.50	-1.91	74,200	29,400	57,400	29.6	
6/9/2011	1210	10.32	-1.73	72,200	32,100	51,000	29.6	
6/16/2011	1035	10.00	-1.41	71,300	32,200	54,000	29.8	
6/23/2011	1109	10.10	-1.51	71,900	31,600	55,650	29.8	
6/30/2011	1009	9.85	-1.26	72,800	27,600	53,050	29.5	
7/8/2011	1138	9.12	-0.53	73,150	29,800	54,450	29.9	
7/14/2011	1414	9.48	-0.89	79,700	29,000	55,350	29.8	
7/21/2011	1119	9.36	-0.77	74,100	34,000	54,100	30.0	
7/28/2011	1229	9.55	-0.96	74,300	30,200	56,300	29.8	
8/4/2011	1224	9.50	-0.91	72,700	31,500	53,000	27.7	
8/11/2011	1209	9.37	-0.78	77,400	30,000	56,800	29.7	
8/18/2011	1149	9.45	-0.86	74,100	30,100	55,500	30.0	
8/25/2011	1149	9.38	-0.79	73,300	31,200	57,450	29.6	
9/1/2011	1224	9.10	-0.51	72,700	30,700	57,300	29.8	
9/8/2011	1159	9.21	-0.62	73,200	32,200	51,800	30.1	
9/16/2011	1303	9.40	-0.81	70,280	29,600	50,550	27.7	
9/23/2011	1239	9.20	-0.61	75,200	29,000	55,550	29.8	
9/29/2011	1300	9.10	-0.51	68,500	30,700	53,600	27.4	
10/6/2011	1229	9.25	-0.66	79,100	31,300	54,050	30.0	
10/13/2011	1209	9.95	-1.36	76,900	30,200	52,250	30.1	
10/20/2011	1200	8.60	-0.01	69,900	28,000	57,150	29.8	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.59 feet NAVD 88

Project: Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1



### EW-1 Pad Monitoring Well Water Quality Data Northwest Pad Monitoring Well (NW-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/01/0011		<u> </u>					<u> </u>	D. d d C dia-
4/21/2011	1221	10.50	-1.66	84,300	33,500	59,900		Background Sampling
4/29/2011	1120	10.65	-1.81	86,300	33,700	56,400	30.0	
5/5/2011	1051	11.40	-2.56	87,400	31,300	57,650	31.1	
5/11/2011	1034	12.40	-3.56	79,100	33,500	55,650	30.4	
5/19/2011	1113	13.90	-5.06	80,000	36,000	53,700	30.4	
5/26/2011	1125	10.73	-1.89	75,130	32,300	55,450	30.4	
6/2/2011	1215	10.75	-1.91	75,900	30,700	59,500	30.3	
6/9/2011	1248	10.60	-1.76	72,500	32,200	51,950	29.9	
6/16/2011	1118	10.25	-1.41	72,500	31,500	54,550	30.0	
6/23/2011	1143	10.37	-1.53	73,300	31,600	57,750	30.3	
6/30/2011	1049	10.10	-1.26	75,700	27,400	54,300	30.0	
7/8/2011	1112	9.38	-0.54	74,100	30,700	53,950	30.3	
7/14/2011	1524	9.75	-0.91	79,900	27,600	56,350	30.3	
7/21/2011	1226	9.60	-0.76	76,200	32,600	54,500	29.7	
7/28/2011	1154	9.80	-0.96	74,900	32,200	57,050	30.5	
8/4/2011	1317	9.85	-1.01	78,000	30,500	59,300	28.7	
8/11/2011	1134	9.61	-0.77	77,600	31,100	58,150	30.4	
8/18/2011	1114	9.68	-0.84	73,100	30,000	55,350	30.6	
8/25/2011	1114	9.61	-0.77	72,300	31,800	56,950	30.0	
9/1/2011	1149	9.33	-0.49	71,900	29,300	56,000	30.4	
9/8/2011	1124	9.45	-0.61	73,800	30,100	52,300	30.5	
9/16/2011	1203	9.60	-0.76	67,200	23,400	51,650	28.2	
9/23/2011	1204	9.43	-0.59	73,800	30,800	54,450	30.4	
9/29/2011	1205	9.35	-0.51	68,700	27,500	50,800	27.6	
10/6/2011	1154	9.50	-0.66	78,400	30,000	56,550	30.2	
10/13/2011	1133	10.21	-1.37	75,800	29,300	50,500	30.2	
10/20/2011	1124	8.81	0.03	70,200	27,500	56,850	30.1	
				,	_ · <b>,</b>	,		
ft htop:	foot holous ton	<u> </u>	1			L	L	Lang.

ft. btoc:

feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.84 feet NAVD 88

Project:

Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1

MHC

SSRIS uc Q

### EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-EW PMW)

		Depth to	Water	Specific	au ·	mrs a	m .	
Date	Time (hours)	Water (ft. btoc)	Elevation (ft. NAVD 88)	Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1414	10.50	-1.62	72,500	26,400	51,500	30.6	Background Sampling
4/29/2011	1025	10.60	-1.72	77,400	28,300	51,600	29.8	
5/5/2011	0930	11.85	-2.97	75,200	29,000	49,400	28.7	
5/11/2011	1124	16.40	-7.52	78,100	28,300	51,050	31.6	
5/19/2011	1202	15.95	-7.07	73,100	29,700	48,450	32.6	
5/26/2011	1155	11.20	-2.32	66,630	27,800	48,350	29.4	
6/2/2011	1035	11.25	-2.37	68,500	26,000	52,600	29.4	
6/9/2011	1319	11.05	-2.17	65,400	26,300	44,150	29.5	
6/16/2011	1154	10.75	-1.87	64,900	27,000	48,450	29.5	
6/23/2011	1214	10.85	-1.97	65,500	30,400	50,800	29.6	
6/30/2011	1119	10.60	-1.72	68,500	24,300	46,650	29.4	
7/8/2011	1045	9.85	-0.97	64,950	25,600	47,650	29.6	
7/14/2011	1445	10.22	-1.34	69,900	24,800	48,300	29.6	
7/21/2011	1154	10.10	-1.22	67,800	27,400	47,900	29.6	
7/28/2011	1259	10.26	-1.38	67,000	26,600	48,650	27.7	
8/4/2011	1157	10.30	-1.42	68,420	25,600	51,350	27.5	
8/11/2011	1243	9.21	-0.33	67,800	26,400	51,150	29.7	
8/18/2011	1219	10.15	-1.27	66,300	25,400	47,500	29.8	
8/25/2011	1219	10.31	-1.43	66,000	26,900	50,150	29.4	
9/1/2011	1254	9.87	-0.99	65,400	25,700	49,450	29.8	
9/8/2011	1229	9.97	-1.09	66,800	26,300	46,500	29.9	
9/16/2011	1329	10.10	-1.22	64,000	25,700	46,800	28.0	
9/23/2011	1309	9.95	-1.07	66,200	25,800	47,500	29.6	
9/29/2011	1230	9.80	-0.92	64,100	25,400	46,150	27.7	
10/6/2011	1259	9.97	-1.09	76,200	25,800	45,800	29.7	
10/13/2011	1239	10.67	-1.79	69,100	26,100	46,700	29.8	
10/20/2011	1229	9.31	-0.43	64,700	23,800	51,100	29.6	
Δ 14444	frat halamatan	<u> </u>	L				1	<u> </u>

ft. btoc:

C:

feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

Celsius

Note: TOC elevation is:

8.88 feet NAVD 88



# Florida Power & Light Company Turkey Point Exploratory Well EW-1 Lithologic Description



	Depth	(ft. bpl)				
Date	From	То	Observer's Description			
10/23/2011	3,230	3,235	Limestone and Dolomite: Limestone, 80%, dolomitic, very pale orange (10YR 8/2) to white (N9), fine to medium grained, moderately to moderately well indurated, low to moderate porosity, low to moderate permeability; Dolomite, 20%, medium gray (N5) to medium dark gray (N4) to pale yellowish brown (10YR6/2), fine crystalline, well indurated; Minor amount of sparry calcite cement.			
10/23/2011	3,235	3,240	Limestone and Dolomite: same as above.			
10/23/2011	3,240	3,245	Limestone and Dolomite: 80%, dolomitic, very pale orange (10YR 8/2) to white (N9), fine to medium grained, moderately poor to moderately well indurated, low to moderate porosity, low to moderate permeability; Dolomite, 20%, medium gray (N5) to medium dark gray (N4) to pale yellowish brown (10YR6/2), fine crystalline, well indurated; Minor amount of sparry calcite cement.			
10/26/2011	3,245	3,250	Limestone and Dolomite: Limestone, 95%, very pale orange (10YR 8/2) to white (N9), fine to medium grained, oolitic, some vugs, moderately poor to moderately well indurated, low to moderate porosity, low to moderate permeability; Dolomite, 5%, medium gray (N5), pale yellowish brown (10YR 6/2), and pale reddish brown (10R 5/4), fine crystalline, well indurated			
10/26/2011	3,250	3,255	Limestone: 100%, very pale orange (10YR 8/2) to white (N9), fine to medium grained, moderately poor to moderately well indurated, low to moderate porosity, low to moderate permeability; Dolomite, trace, medium gray (N5) to medium dark gray (N4), fine crystalline, well indurated			
10/26/2011	3,255	3,260	Limestone and Dolomite: 70%, dolomitic, very pale orange (10YR 8/2) to white (N9), fine grained, moderately well indurated, low to moderate porosity, low to moderate permeability; Dolomite, 30%, medium gray (N5) to medium dark gray (N4) to pale yellowish brown (10YR6/2), fine crystalline, well indurated.			
10/26/2011	3,260	3,265	Limestone and Dolomite: same as above.			
ft. bpl = feet b						

### Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log

Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)
7/7/2011	1655	Bentonite /Barite	569	Quantity (pounds)
7/8/2011	1655	Bentonite /Barite	6,064	
7/9/2011	1655	Bentonite /Barite	2,085	
7/10/2011	1655	Bentonite /Barite	1,137	
7/11/2011	1655	Bentonite /Barite	9,475	
7/12/2011	1655	Bentonite /Barite	759	
7/12/2011	1655	Bentonite /Barite	4,548	
7/15/2011	1655	Bentonite /Barite	1,925	
7/16/2011	1655	Bentonite /Barite	2,200	
7/17/2011	1655	Bentonite /Barite	284	
7/18/2011	1655	Bentonite /Barite	275	
7/19/2011	1655	Bentonite /Barite	275	
		<del></del>		
7/31/2011	1542	Bentonite /Barite	18,950	
8/1/2011	1542 1542	Bentonite /Barite	4,548	
8/2/2011		Bentonite /Barite	284	
8/5/2011	1542	Bentonite /Barite	4,548	•
8/6/2011	1542	Bentonite /Barite	2,274	·
8/10/2011	1542	Bentonite /Barite	6,443	
8/10/2011	1542	Salt		2,000
8/13/2011	1722	Bentonite /Barite	6,250	
8/14/2011	1722	Bentonite /Barite	379	
8/17/2011	2026	Salt		2,000
8/18/2011	2026	Bentonite /Barite	379	2,000
8/19/2011	2110	Bentonite/Barite and Salt	570	2,000
8/20/2011	2110	Bentonite /Barite and Salt	189	4,000
8/21/2011	2288	Salt		6,000
8/22/2011	2288	Salt		4,000
8/24/2011	2396	Bentonite /Barite and Salt	379	2,000
8/25/2011	2396	Salt		4,000
8/26/2011	2576	Bentonite /Barite and Salt	379	2,000
8/28/2011	2580	Bentonite /Barite and Salt	379	6,000
8/30/2011	2638	Salt		4,000
8/31/2011	2638	Bentonite /Barite/Salt	569	2,000
9/1/2011	2652	Bentonite /Barite	379	
9/2/2011	2666	Salt		2,000
9/3/2011	2666	Bentonite /Barite	569	,
9/10/2011	3214	Salt		6,000
9/11/2011	3210	Salt		4,000
9/19/2011	3227	Salt		4,000
9/22/2011	3228	Salt		4,000
10/9/2011	3220	Salt		6,000
10/9/2011	3220	Salt		
	· · · · · · · · · · · · · · · · · · ·			6,000
10/12/2011	3227	Salt		4,000
10/23/2011	3234	Salt		6,000

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 2 Page 1 of 31

### **Enclosure 2**

Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #26 dated November 4, 2011

#### WEEKLY CONSTRUCTION SUMMARY

MHC

McNabb Hydrogeologic Consulting, Inc.

601 Heritage Drive, Suite 110 Jupiter, Florida 33458 Phone: 561-891-0763 Fax: 561-623-5469

November 4, 2011

MHCDEP-11-0497

Mr. Joseph May, P.G. Florida Department of Environmental Protection 400 N. Congress Ave, Suite 200 West Palm Beach, FL 33401

RE: Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well

Project; Permit #0293962-001-UC Weekly Construction Summary #26

Dear Mr. May:

This is the twenty-sixth weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, October 27, 2011 and ended at 7:00 AM, Thursday, November 3, 2011. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period the drilling contractor drilled a pilot hole over the interval from 3,234 feet below pad level (bpl) to 3,265 feet bpl. Most of the reporting period was spent dredging over the interval primarily from approximately 3,233 to 3,241 feet bpl.

The drilling contractor spent the first half of the reporting period dredging the interval from 3,244 feet bpl to 3,262 feet bpl. The lower portion of the borehole subsequently filled in to a depth of 3,211 feet bpl, after which the drilling contractor dredged the interval from 3,211 feet bpl to 3,228 feet bpl. The dredge material consists primarily of limestone sand. Salt was used to kill the well one time during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is also attached.

There was no casing installation, cementing, packer testing or exploratory well development and no lithologic samples were collected during this reporting period since the pilot hole was not advanced. There were no construction related issues during this reporting period.

During the next reporting period, it is anticipated that the drilling contractor will complete pilot hole drilling to a depth of 3,500 feet bpl, perform geophysical logging of the pilot hole and begin packer testing of the pilot hole unless dredging of the pilot hole continues.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on November 3, 2011. The most recent set of pad monitoring well sample results available are for samples collected on October 27, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

Should you have any questions regarding the above weekly construction summary, please contact David McNabb at (561) 891-0763.

Sincerely,

McNabb Hydrogeologic Consulting, Inc.

David McNabb,

Attachments: Consultant Daily Construction Log

Layne Christensen Company-Drilling Shift Report Pad Monitor Well Water Quality Data Summary Sheets

Daily Kill Material Log

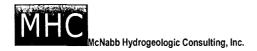
Cc: George Heuler/FDEP-Tallahassee Emily Richardson/SFWMD

Matthew Raffenberg/FPL David Holtz/HCE

David Paul/FGS

Ron Reese/USGS

Joe Haberfeld/FDEP-Tallahassee





**Date:** October 27, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

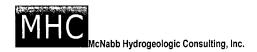
Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch Starting Depth: 3,252 feet bpl Ending Depth: 3,244 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Partly Cloudy and Warm

Activity: Pilot Hole Drilling

- 0700 Yesterday, the pilot hole was advanced to a depth of 3,265 feet below pad level (bpl). Dredging continues from approximately 3,252 feet to 3,265 feet bpl. The pilot hole is currently filled in to a depth of 3,252 feet bpl.
- O930 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- 1050 Florida Spectrum Laboratories is onsite to sample the drilling pad monitoring wells.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- 1730 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,244 feet bpl.
- 2030 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,246 feet bpl.
- 2350 The drilling contractor is dredging the pilot hole between the depths of 3,234 feet and 3,252 feet bpl. The dredged formation cuttings are a fine to medium grained sand.
- O215 The drilling contractor is dredging the pilot hole between the depths of 3,239 feet and 3,252 feet bpl.
- O445 The drilling contractor is dredging the pilot hole between the depths of 3,243 feet and 3,252 feet bpl.
- 0700 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,244 feet bpl.





**Date:** October 28, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch
Starting Depth: 3,244 feet bpl
Ending Depth: 3,211 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Deborah Daigle/Sally Durall

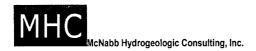
Weather Night: Some Rain and Warm

Activity: Pilot Hole Drilling

#### **CONSTRUCTION ACTIVITIES**

- O700 Yesterday, the pilot hole was dredged to a depth of 3,252 feet below pad level (bpl). Dredging continues from approximately 3,244 feet to 3,265 feet bpl. The pilot hole is currently filled in to a depth of 3,244 feet bpl.
- O930 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.
- 1130 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,261 feet bpl.
- 1330 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,252 feet bpl.
- 1430 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,258 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,262 feet bpl.
- 1800 The drilling contractor is currently having trouble with the drill bit becoming plugged off and is trying to regain air line pressure.
- The drilling contractor continues dredging the pilot hole. The pilot hole has filled in to a depth of 3,211 feet bpl.
- The drilling contractor is dredging the pilot hole between the depths of 3,211 feet and 3,332 feet bpl.
- 0200 The drilling contractor is dredging the pilot hole at a depth of 3,211 feet bpl.
- O400 The drilling contractor is currently having trouble with the drill bit becoming plugged off and is trying to regain air line pressure.
- O500 The drilling contractor is currently having trouble with the drill bit becoming plugged off and is trying to regain air line pressure.
- 0700 The drilling contractor is currently having trouble with the drill bit becoming plugged off and is trying to regain air line pressure.

102811 Page 1 of 1





**Date:** October 29, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,211 feet bpl Ending Depth: 3,215 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Rain and Warm Activity: Pilot Hole Drilling

#### **CONSTRUCTION ACTIVITIES**

O700 Yesterday, the pilot hole was dredged to a depth of 3,261 feet below pad level (bpl), but the hole filled in to 3,211 during the night. The drilling contractor is currently having trouble with the drill bit plugging off and is currently trying to regain air line pressure.

0900 The drilling contractor is unable to restore air line pressure indicating that the drill bit is plugged off. The drilling contractor will trip out of the hole to unplug the bit.

0930 The drilling contractor begins tripping the air line and drill pipe out of the hole.

1200 The drilling contractor continues to trip out of the hole with the drill pipe.

1500 The drilling contractor continues to trip out of the hole with the drill pipe.

1710 The drilling contractor has killed the well using three 2,000 pound bags of salt and completed tripping the drill pipe out of the hole, and the drill bit is on the rig floor.

1715 The drilling contractor is clearing cuttings from the drill bit and last collar string.

1800 The drilling contractor begins to trip in the borehole with the drilling bit.

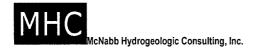
2200 The drilling contractor continues to trip in the borehole with the drilling bit.

The drilling contractor resumes dredging the pilot hole. The pilot hole has filled back in to a depth of 3,211 feet bpl.

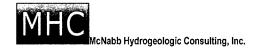
0400 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,228 feet bpl.

0540 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.

0700 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.









**Date:** October 30, 2011 FDEP UIC Permit #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,215 feet bpl Ending Depth: 3,217 feet bpl

Weather Day: Ptly Cloudy and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Cloudy and Warm

Activity: Pilot Hole Drilling

#### **CONSTRUCTION ACTIVITIES**

O700 Yesterday, the drilling contractor was unable to restore air line pressure indicating and tripped the drill pipe and bit out of the hole. Drilling resumed with the hole having filled in to a depth of approximately 3,211 feet bpl. The drilling contractor continues dredging the pilot hole. The pilot hole is currently at a depth of 3,215 feet bpl.

0930 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,220 feet bpl.

1130 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,226 feet bpl.

1330 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,228 feet bpl.

1430 The drilling contractor continues dredging the pilot hole. The pilot hole has filled in to a depth of 3,214 feet bpl.

1630 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,220 feet bpl.

1740 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,223 feet bpl.

1900 The drilling contractor is dredging the pilot hole between the depths of 3,215 feet and 3,228 feet bpl.

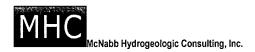
2200 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,216 feet bpl.

The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,217 feet bpl.

The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,218 feet bpl.

The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,216 feet bpl.

0700 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,217 feet bpl.





**Date:** October 31, 2011 **FDEP UIC Permit** #:0293962-001-UC

**Project:** FPL Turkey Point EW Well No.: EW-1

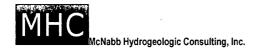
Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,217 feet bpl Ending Depth: 3,220 feet bpl

Weather Day: Cloudy, Warm, Rain Recorded By: Deborah Daigle/Sally Durall

Weather Night: Cloudy, Windy, and Cool

**Activity:** Pilot Hole Drilling

- O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged from a depth of approximately 3,211 ft below pad level (bpl) to 3,228 ft bpl. The pilot hole is currently at a depth of 3,217 feet bpl.
- O930 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,217 feet bpl.
- 1130 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,214 feet bpl.
- 1500 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.
- 1730 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.
- 1900 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.
- 2215 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,216 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.
- O330 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,217 feet bpl.
- 0520 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,219 feet bpl.
- 0700 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,220 feet bpl.





**Date:** November 1, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch Starting Depth: 3,220 feet bpl Ending Depth: 3,213 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Deborah Daigle/Sally Durall

Weather Night: Windy, Cool, Light Rain

Activity: Pilot Hole Drilling

- O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged from a depth of approximately 3,211 ft below pad level (bpl) to 3,220 ft bpl. The pilot hole is currently filling in at a depth of 3,220 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,218 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,220 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,221 feet bpl.
- 1530 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,222 feet bpl.
- 1700 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,220 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,218 feet bpl.
- 2330 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,218 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,219 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,220 feet bpl.
- 0700 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,213 feet bpl.





**Date:** November 2, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,213 feet bpl Ending Depth: 3,222 feet bpl

Weather Day: Partly Cloudy and Windy Recorded By: Marty Clasen/Sally Durall

Weather Night: Clear, Windy and Cool

Activity: Pilot Hole Drilling

- O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged from a depth of approximately 3,213 ft below pad level (bpl) to 3,222 ft bpl. The pilot hole is currently filling in at a depth of 3,213 feet bpl.
- The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,226 feet bpl.
- The drilling contractor continues dredging the pilot hole. The bit plugged off and the drilling contractor has pulled the drill pipe up to a depth of 3,197 feet bpl.
- 1340 The air pressure has recovered and dredging resumes.
- The drilling contractor is dredging the pilot hole between the depths of 3,222 feet bpl to 3,224 feet bpl.
- The drilling contractor was able to clean the pilot hole to a depth of 3,227 feet bpl. The pilot hole remained open to a depth of 3,222 feet bpl, but when attempting to drill past this depth, the bit began to plug off and the drill string had to be raised up approximately 30 feet to regain air pressure.
- The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at to a depth of 3,222 feet bpl.
- 2230 The pilot hole is currently at the depth of 3,223 feet bpl.
- 0200 The pilot hole is currently at the depth of 3,223 feet bpl.
- O430 The drilling contractor is dredging the pilot hole between the depths of 3,220 feet to 3,224 feet bpl.
- 0700 The drilling contractor is dredging the pilot hole at a depth of 3,222 feet bpl.

CLIENT FPL JOBSITE NAME EWZ

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 2 Page 12 of 31 DATE 10-27-11 THURS DAYS 108 # 11771

IOBSTELOCATION T.P.

	PERSONNEL EMPLOYED TODAY						EQUIPMENT DEPLOYED TODAY					DAILY ACCOUNTING OF ACTIVITIES BY ITEM #			
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Installer's Signature

LCC DSR± 012209

Client's Signature

PAYROLL

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Supervisor's Signature

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PAYROLL

Client's Signature



Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 2 Page 14 of 31 DATE No-28-2011
Friday Days

	WATCHWITTEN STATES TO LOCATE						EQUIPMEN	OEPLOYED TODAY			i	DAILY ACCOUNTING OF ACTIVITIES BY ITEM #	
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PAYROLL



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Installer's Signature

LCC DSR1 091209

#### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

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Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 2 Page 16 of 31

Clent's Signature

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	PERSONNEL EMPLOYED TODAY	EQUIPMENT DEPLOYED TODAY				DA'LY ACCOUNTING OF ACTIVITIES BY ITEM #							
Crew	***	Per Diam?	. Onsite	Offsile	Total		J 11			. Bem #	Cost Code	Labor Activity	Hours
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Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

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L-2011-503 Enclosure 2 Page 18 of 31

Sunday With Day

Unit #

JOBSTE LOCATION THE Key Point

LIEUW Activity

Hours

PERSONAL EMPLOYED TORACT

Description

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m.	Jim McDoNOCEL	_ X	12		12
	Josh Brown	X	12		12

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Standby	82	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

TIME OF ACTIVITY BY ITEM # Orcle One

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	7	0007	Windstein - Charlend
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	9	11300	Har-chaunup
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	MATERIALS USED TODAY
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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

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TERM SOURCE



Canno	CLIENT- E.P.	1 Prop	osed Turk	ev Point l	Jnits 6 and	17	1.0	- 20		<u>.</u>			: 1 <u>1771</u>	
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	JOBSITE NAMEEW	~ (L-20	11-503 En	closure 2	Page 19 o	if 31	See All Lines.	a, January	# <sub>1</sub> F #		úú	ESTERONICA	F. P.	
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(alline)	CLIENT FPL				Units 6 and	d7 DATE_	1	0/3/1	111			308	. 1177/	
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	JOBSITE NAME EUS PERSONNEL EMPLOYED TÓDAY		711 000 E	noiceare :	L i ago Lo	5.01	£011EFE/F	or navoven roo	New Y		Joa		DALS ACCOUNTING OF ACCOUNTS OF 11914 S	
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	Maria Fill-	/ L-2011	-503 Encl	osure 2 F	age 21 of	31	me	in. N	IGHT	<del>.</del>		e Section		
	PERSONNEL EMPLOYED TODA	λY	: :::: :::::::::::::::::::::::::::::::		:		EQ HDA	Electronic courses			10	BRITE COCATS		
Crew		Per Diem?	Onsite	Offsite	T	1	EUDIPIY	ENT DEPLOYED T	UDAY				DAILY ACCOUNTING OF ACTIVITIES BY TEM #	
Assignment	Employee - Full Name	(X)	Hours	Hours	Total Hours		Description		Unite	Status	Item#	Cost Code	e Labor Activity	Hours
1 - 11 -				rioura	neurs				-		1	10000	Thorc Durafton Job	
DUITER	Bosi+ Guioma	Y	12		112						2	11100	Driste Mob/Demob	
									1		3 4	11150	lob Preparation	-271
VI	VIAD ISHIMOV		12		12	1-1					3	0005	latety Meeting	
1371	T-MAI 1		17				_				6	0005	Shop - Overhead	
0.2	JOHN LOPEZ	X	12	-	12						7	0007	Maintenance - Overhead	-
BC	BULY CRAWFORD.		12								8	11250	Fraining Job Chargeable	+
O-L	SILL CHARLEST	X	16		12						- 5	11300	Site Clean up	
						- a					10	11350	Instal Sound Walls	
		-	- MANAGEN		-						11	11400	Install Decon Pad	
						Working	WK	Mobili	THE PERSON NAMED IN	MB	12	11450	Install Surface Cosing	
				T THE REAL PROPERTY.		Standby Down in Shop	58	Demobil	-	DM	13	11500	Install Roadway & Drill Pad	
			1			Down on Site	DS DN	Available		AY	14	12050	Test Hole Orilling	
	MATERIALS USED TODAY					pount dit sie	DIN	Available	on Job	AV	11	12100	Goophysical Logging & Other Testing	
	WATERIALS USED TODAY						TIME OF	ACTIVITY BY ITE	M #		16	12150	Aquifer Zone Testing	
Nawifig	Descripaçã	3				Fram	To	Circle One	Her	n il	10	12200	Borehole Abandonmeni	
	correcte manes							AM PM			19	13100	Production Well Installation	-
	SAFETY MTG!							AM PM			20	13150	Fill Pilot Hole	200 Y.
								AM PM			21	13200	eophysical Logging & Odier Testing	-
								AM PM			22	13250	Aquifer Zone Testing	-
(1)	P.P.E - AN OVE	0	F-1 X X					AM PM			2.3	19300	Borehale Abandonmont/Cement Plugs	
	TILLE TO DAG	KVIE	W,	-				AM PM			24	13350	Rearning	
								AM PM			25	13400	Under Reaming	
-						-		AM PM			2.6	13450	i nstal i Cosing	
12	H.I.R.A							AM PM			27	13500	Instal Screen	
								AM PM			28	13550	Grave Pack The Well	Personal Property of the Party
							-	AM PM			29 30	13600	Install Annular Seal	
	Lau II	2312						AM PM	77,277,02,230		30	13650 14050	Waller Walching	
	HAND SAFETY: pINCH DO	NITT	41GH	PRE	55			AM PM	en e e e e e e e e e e e e e e e e e e		32	14100	Well Development Air Lift and Swab  Disposal of Fluids & Cutlings	
							-	AM PM			33	14150	Furnish & Instal Test Pump and Discharge	
	INGS! LOADER SAFETY!							AM PM			34	14200	Development Pumping	
								AM PM			35	14250	lest Pumping	1 3
								AM PM			36	14300	Disinfection and Chlorington	
											37	19050	Offsite Activities Mab/Demob	
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and a l	W. Ve.										39	19150	Administration	
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1	12 4 BIT : FROM	* d.y.	-7.		-	1 1991 5		-1.00		——   -	41		Fishing for Lost/Broken Tooling	
05-7	LOST 10 START	OVER	F	ROM	/ 3	212' 4	201	700		- 11	43	TOTAL CONTRACTOR	Change Order Activities	
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										——    -	-	The State of	lab Superintenden) Lunch	
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	CLIENT: FPL	Propose	ed Turkey P	oint Units 6 and	d 7 DATE	. 11	- N				: . Piggi	1177)		
	JOBSTENAME & W	Docket	Nos. 52-040	o and 52-041 ure 2 Page 22-	TVE	Day	Shik	<del></del>				Twillen F	ال در در کار	<u> </u>
	JOBS TE NAME:		-505 <u>CIICIOS</u>	ule z raye zz-	0131		NT DEPLOYED TO			108	SITE LOCATION	DALLY ACCOUNTING OF ACTIVITIES BY ITEM #		<u></u>
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Crew Assignment. ~	Employee - Full Name	1 4	Onsite Offs Hours - Hai	site Total urs Hours =	_	Description		Dale	Status :	item#	Cost Code 10000	Labor Activity		pritz
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-		n in	The same of the same		-		AM PM		-	25	13400	Under Reaming		
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Assignment

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Assignment	Employee - Full Name	: (x)	Hours	Hours	Hours		Description		ម្បីក្រុំក្	Status	i	10000	Anon Duralion Job	
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00	Billy Crawford	🔨	12		12						9	11250	Site Clean up_	
احيب		· ;	· \ _			<b>F</b>			-		10	11350	Install Sound Walk	
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Quantily	Descript on					From	То	Circle One	<u>l</u> er	n#	18	13050	Production Wellinstallation	
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	CLIENT, FPL	_ Pro	osed Turk	key Point	Units 6 and	17 DATE	1/	/ 2	1/11			IOR	11.271	
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LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

L-2011-503 Enclosure 2 Rage 25 of 31

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Signatura Sections

	PERSONNEL EMPLOYED TODAY						museum	i i lestricii și d	án.				hean ead improve printing of nice.	
Crew		Per Dlem?	Onsite	Offsite	Total						item#	Cost Code	Labor Activity	Hours 4-
Assignment	Employee' Full Name	(x)	Hours.	Hours	Hours		Description	_ _	Unit#	Status	1	10000	Short Duration Job	
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	L. I and the second sec	4.		**	1	•		· · · · · · · · · · · · · · · · · · ·			116	12150	Raidfer Zone Testing	
	MATERIALS USED TODAY						TIME OF	CTIVITY BY TEM	ă		17	1220G	Borehole Abandonmens	
Quantity	Condictor	her sa's or as the same consecutive				From	- To	- Circle One *	ite	7.8	18	.13050	Product on Well Installation	
	C 0 4 D	,	7:	. 1				AM PM E			19	:13100	Insial Conductor Prog	
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		٠٠٨	U.S. E.S.	6 2 CAL		<u> </u>	<u> بوجوان در س</u>	AM PM	or other Transport		21	13200	Beophysical Logging & Other Testing	
	Soufety Meet 2: Packer Infla	(YYY )	ochine.			l <del> </del> -		AM PM			22	13250	Aquifer Zone Testing	
-	SOLES LACE TO THE OF	Liga X L	<u> </u>	-		i		AM PM			23	13100	Forehole Abandonment/Cemont Plugs	
ĺ							M	AM PM			24	13350	Reaming	
						: <del> </del>		AM PM			25	13400	Under Reaming	
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·							C	AM PM			31	14050	Well Development Air Lift and Swab	
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PAYROLL

Clent s Signature

Project: Florida Power & Light Company
Miami-Dade County, Florida

Exploratory Well EW-1





#### EW-1 Pad Monitoring Well Water Quality Data Northeast Pad Monitoring Well (NE-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4	
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2	
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7	
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5	
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7	
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6	
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3	
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5	,
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5	
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2	
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9	
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9	
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7	·
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7	
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5	
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6	
8/18/2011	1039	9.45	-0.57	71,900	29,400	54,850	30.0	
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7	
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9	
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3	
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8	
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1	
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8	
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1	
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1	
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9	
10/27/2011	1109	8.95	-0.07	80,200	27,700	54,950	30.0	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

\*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurance have been implemented.

Note: TOC elevation is: 8.88 feet NAVD 88

Project:

Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1



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#### EW-1 Pad Monitoring Well Water Quality Data Southeast Pad Monitoring Well (SE-EW PMW)

		i -	T	·····	<del></del> ,	(52 277 1772		The second secon
Date	Time	Depth to Water	Water Elevation	Specific Conductance	Chloride	TDS	Temperature	Remarks
Date	(hours)	(ft. btoc)	(ft. NAVD 88)	(umhos/cm)	(mg/L)	(mg/L)	(degrees C)	Kenaiks
4/21/2011	1311	10.10	-1.51	81,600	30,200	57,800	29.9	Background Sampling
4/29/2011	1349	10.40	-1.81	86,700	33,100	55,000	30.4	
5/5/2011	1008	11.10	<b>-2</b> .51	83,000	29,500	54,700	29.9	
5/11/2011	1228	10.65	-2.06	78,200	30,100	52,600	30.1	
5/19/2011	1039	10.12	-1.53	75,200	30,000	51,100	29.8	
5/26/2011	1235	10.47	-1.88	73,890	31,200	53,800	29.9	
6/2/2011	1056	10.50	-1.91	74,200	29,400	57,400	29.6	
6/9/2011	1210	10.32	-1.73	72,200	32,100	51,000	29.6	
6/16/2011	1035	10.00	-1.41	71,300	32,200	54,000	29.8	
6/23/2011	1109	10.10	-1.51	71,900	31,600	55,650	29.8	
6/30/2011	1009	9.85	-1.26	72,800	27,600	53,050	29.5	
7/8/2011	1138	9.12	-0.53	73,150	29,800	54,450	29.9	
7/14/2011	1414	9.48	-0.89	79,700	29,000	55,350	29.8	
7/21/2011	1119	9.36	-0.77	74,100	34,000	54,100	30.0	
7/28/2011	1229	9.55	-0.96	74,300	30,200	56,300	29.8	
8/4/2011	1224	9.50	-0.91	72,700	31,500	53,000	27.7	
8/11/2011	1209	9.37	-0.78	77,400	30,000	56,800	29.7	
8/18/2011	1149	9.45	-0.86	74,100	30,100	55,500	30.0	
8/25/2011	1149	9.38	-0.79	73,300	31,200	57,450	29.6	
9/1/2011	1224	9.10	-0.51	72,700	30,700	57,300	29.8	
9/8/2011	1159	9.21	-0.62	73,200	32,200	51,800	30.1	
9/16/2011	1303	9.40	-0.81	70,280	29,600	50,550	27.7	
9/23/2011	1239	9.20	-0.61	75,200	29,000	55,550	29.8	
9/29/2011	1300	9.10	-0.51	68,500	30,700	53,600	27.4	
10/6/2011	1229	9.25	-0.66	79,100	31,300	54,050	30.0	
10/13/2011	1209	9.95	-1.36	76,900	30,200	52,250	30.1	
10/20/2011	1200	8.60	-0.01	69,900	28,000	57,150	29.8	
10/27/2011	1218	8.81	-0.22	82,400	28,000	56,500	30.0	
	l	L	l			L	L	·

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.59 feet NAVD 88

Project:

Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1





#### EW-1 Pad Monitoring Well Water Quality Data Northwest Pad Monitoring Well (NW-EW PMW)

Water Depth to Specific Date Time Water Elevation Conductance Chloride TDS Temperature Remarks (hours) (ft. btoc) (ft. NAVD 88) (umhos/cm) (mg/L) (mg/L) (degrees C') 4/21/2011 1221 10.50 84,300 33,500 59,900 -1.66 30.8 Background Sampling 4/29/2011 1120 10.65 86,300 33,700 56,400 30.0 -1.81 5/5/2011 1051 11.40 -2.56 87,400 31,300 57,650 31.1 5/11/2011 1034 12.40 -3.56 79,100 33,500 55,650 30.4 5/19/2011 1113 13.90 -5.06 80,000 36,000 53,700 30.4 5/26/2011 1125 10.73 -1.89 75,130 32,300 55,450 30.4 6/2/2011 1215 10.75 75,900 30,700 59,500 30.3 -1.91 6/9/2011 1248 10.60 72,500 32,200 51,950 -1.76 29.9 6/16/2011 1118 10.25 72.500 31.500 54,550 -1.41 30.0 6/23/2011 1143 10.37 -1.53 73.300 31,600 57,750 30.3 6/30/2011 1049 10.10 -1.26 75,700 27,400 54,300 30.0 7/8/2011 1112 9.38 30,700 53,950 30.3 -0.54 74,100 7/14/2011 1524 9.75 -0.91 79,900 27,600 56,350 30.3 7/21/2011 1226 9.60 -0.76 76,200 32,600 54,500 29.7 7/28/2011 1154 9.80 -0.96 32,200 74,900 57,050 30.5 8/4/2011 1317 9.85 -1.01 78,000 30,500 59,300 28.7 8/11/2011 1134 9.61 -0.77 77,600 31,100 58,150 30.4 8/18/2011 1114 9.68 -0.8473,100 30,000 55,350 30.6 8/25/2011 1114 9.61 -0.7772,300 31,800 56,950 30.0 9/1/2011 1149 9.33 -0.49 71,900 29,300 56,000 30.4 9/8/2011 1124 9.45 52,300 -0.61 73,800 30,100 30.5 9/16/2011 1203 9.60 23.400 -0.7667,200 51,650 28.2 9/23/2011 1204 9.43 -0.5973.800 30,800 54,450 30.4 9/29/2011 1205 9.35 **-**0.51 68,700 27,500 50,800 27.6 10/6/2011 9.50 1154 -0.66 78,400 30,000 56,550 30.2 10/13/2011 1133 10.21 -1.37 75,800 29,300 50,500 30.2 10/20/2011 1124 8.81 0.03 70,200 27,500 56.850 30.1 10/27/2011 1143 10.39 -1.55 81,500 28,800 54,600 30.2

ft. btoc:

C:

feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter

mg/L: milligrams per liter

Celsius

Note: TOC elevation is:

8.84 feet NAVD 88

Project: Florida Power & Light Company
Miami-Dade County, Florida

Exploratory Well EW-1



#### EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-EW PMW)

		Depth to	Water	Specific				
Date	Time	Water	Elevation	Conductance	Chloride	TDS	Temperature	Remarks
	(hours)	(ft. btoc)	(ft. NAVD 88)	(umhos/cm)	(mg/L)	(mg/L)	(degrees C)	
4/21/2011	1414	10.50	-1.62	72,500	26,400	51,500	30.6	Background Sampling
4/29/2011	1025	10.60	-1.72	77,400	28,300	51,600	29.8	
5/5/2011	0930	11.85	-2.97	75,200	29,000	49,400	28.7	
5/11/2011	1124	16.40	-7.52	78,100	28,300	51,050	31.6	
5/19/2011	1202	15.95	-7.07	73,100	29,700	48,450	32.6	
5/26/2011	1155	11.20	-2.32	66,630	27,800	48,350	29.4	
6/2/2011	1035	11.25	<b>-</b> 2.37	68,500	26,000	52,600	29.4	
6/9/2011	1319	11.05	-2.17	65,400	26,300	44,150	29.5	
6/16/2011	1154	10.75	-1.87	64,900	27,000	48,450	29.5	
6/23/2011	1214	10.85	-1.97	65,500	30,400	50,800	29.6	
6/30/2011	1119	10.60	-1.72	68,500	24,300	46,650	29.4	
7/8/2011	1045	9.85	-0.97	64,950	25,600	47,650	29.6	
7/14/2011	1445	10.22	-1.34	69,900	24,800	48,300	29.6	
7/21/2011	1154	10.10	-1.22	67,800	27,400	47,900	29.6	
7/28/2011	1259	10.26	-1.38	67,000	26,600	48,650	27.7	
8/4/2011	1157	10.30	-1.42	68,420	25,600	51,350	27.5	
8/11/2011	1243	9.21	-0.33	67,800	26,400	51,150	29.7	
8/18/2011	1219	10.15	-1.27	66,300	25,400	47,500	29.8	
8/25/2011	1219	10.31	-1.43	66,000	26,900	50,150	29.4	
9/1/2011	1254	9.87	-0.99	65,400	25,700	49,450	29.8	
9/8/2011	1229	9.97	-1.09	66,800	26,300	46,500	29.9	
9/16/2011	1329	10.10	-1.22	64,000	25,700	46,800	28.0	
9/23/2011	1309	9.95	-1.07	66,200	25,800	47,500	29.6	
9/29/2011	1230	9.80	-0.92	64,100	25,400	46,150	27.7	
10/6/2011	1259	9.97	-1.09	76,200	25,800	45,800	29.7	
10/13/2011	1239	10.67	-1.79	69,100	26,100	46,700	29.8	
10/20/2011	1229	9.31	-0.43	64,700	23,800	51,100	29.6	
10/27/2011	1249	10.87	-1.99	75,600	26,500	50,000	29.7	

ft. btoc:

feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.88 feet NAVD 88

### Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log

Date	Depth (feet	Kill Used	Approximate	Approximate
	bpl)		Volume (gallons)	Quantity (pounds)
7/7/2011	1655	Bentonite /Barite	569	
7/8/2011	1655	Bentonite /Barite	6,064	
7/9/2011	1655	Bentonite /Barite	2,085	
7/10/2011	1655	Bentonite /Barite	1,137	
7/11/2011	1655	Bentonite /Barite	9,475	
7/12/2011	1655	Bentonite /Barite	759	* -
7/13/2011	1655	Bentonite /Barite	4,548	
7/15/2011	1655	Bentonite /Barite	1,925	
7/16/2011	1655	Bentonite /Barite	2,200	
7/17/2011	1655	Bentonite /Barite	284	
7/18/2011	1655	Bentonite /Barite	275	
7/19/2011	1655	Bentonite /Barite	275	
7/31/2011	1542	Bentonite /Barite	18,950	·— ···
8/1/2011	1542	Bentonite /Barite	4,548	
8/2/2011	1542	Bentonite /Barite	284	
8/5/2011	1542	Bentonite /Barite	4,548	
8/6/2011	1542	Bentonite /Barite	2,274	
8/10/2011	1542	Bentonite /Barite	6,443	
8/10/2011	1542	Salt		2,000
8/13/2011	1722	Bentonite /Barite	6,250	
8/14/2011	1722	Bentonite /Barite	379	
8/17/2011	2026	Salt		2,000
8/18/2011	2026	Bentonite /Barite	379	2,000
8/19/2011	2110	Bentonite/Barite and Salt	570	2,000
8/20/2011	2110	Bentonite /Barite and Salt	189	4,000
8/21/2011	2288	Salt		6,000
8/22/2011	2288	Salt		4,000
8/24/2011	2396	Bentonite /Barite and Salt	379	2,000
8/25/2011	2396	Salt		4,000
8/26/2011	2576	Bentonite /Barite and Salt	379	2,000
8/28/2011	2580	Bentonite /Barite and Salt	379	6,000
8/30/2011	2638	Salt		4,000
8/31/2011	2638	Bentonite /Barite/Salt	569	2,000
9/1/2011	2652	Bentonite /Barite	379	
9/2/2011	2666	Salt		2,000
9/3/2011	2666	Bentonite /Barite	569	,
9/10/2011	3214	Salt		6,000
9/11/2011	3210	Salt		4,000
9/19/2011	3227	Salt		4,000

### Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log

Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)			
9/22/2011	3228	Salt		4,000			
10/9/2011	3220	Salt		6,000			
10/10/2011	3220	Salt		6,000			
10/12/2011	3227	Salt		4,000			
10/23/2011	3234	Salt		6,000			
10/29/2011	3211	Salt		6,000			
feet bpl = feet below pad level							

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 3 Page 1 of 31

### **Enclosure 3**

Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC Weekly Construction Summary #27 dated November 11, 2011

#### WEEKLY CONSTRUCTION SUMMARY

MHC

McNabb Hydrogeologic Consulting, Inc.

601 Heritage Drive, Suite 110 Jupiter, Florida 33458 Phone: 561-891-0763 Fax: 561-623-5469

November 11, 2011

MHCDEP-11-0511

Mr. Joseph May, P.G. Florida Department of Environmental Protection 400 N. Congress Ave, Suite 200 West Palm Beach, FL 33401

RE: Florida Power & Light Company Turkey Point Units 6 & 7 Exploratory Well Project; Permit #0293962-001-UC

Weekly Construction Summary #27

Dear Mr. May:

This is the twenty-seventh weekly construction summary for the above referenced project. The reporting period for this weekly construction summary began at 7:00 AM, Thursday, November 3, 2011 and ended at 7:00 AM, Thursday, November 10, 2011. There was no construction activity at the site between 5:00 PM, Monday, November 7, 2011 and 7:00 AM Wednesday, November 9, 2011 to allow the drilling contractor to conduct safety training. No drilling contractor daily reports were prepared for the period when no construction activity was taking place. Consultant and drilling contractor daily reports were prepared for this reporting period. Copies of the consultant and drilling contractor daily construction logs are attached.

During the previous reporting period the drilling contractor dredged the interval from 3,211 feet below pad level (bpl) to 3,262 feet bpl. The interval from 3,211 feet bpl to 3,228 feet bpl was being dredged at the end of the reporting period.

During this reporting period, the drilling contractor dredged the interval from 3,218 feet bpl to 3,234 feet bpl. Most of the reporting period was spent dredging over the interval primarily from approximately 3,220 to 3,227 feet bpl. The dredge material consists primarily of limestone sand. Salt was used to kill the well once during the reporting period. A daily kill material log providing a summary of daily kill material and kill quantity is also attached. Laboratory results for a pilot hole water sample collected on October 23, 2011 were received during this reporting period. A table providing a summary of the pilot hole water quality laboratory data is attached.

There was no casing installation, cementing, packer testing or exploratory well development and no lithologic samples were collected during this reporting period since the pilot hole was not advanced. There were no construction related issues during this reporting period.

During the next reporting period, it is anticipated that the drilling contractor will complete pilot hole drilling to a depth of 3,500 feet bpl, perform geophysical logging of the pilot hole and begin packer testing of the pilot hole unless dredging of the pilot hole continues.

In addition, sampling of the pad monitor wells began on April 21, 2011 and has been taking place on a weekly basis since the initial sampling. The pad monitor wells were most recently sampled on November 10, 2011. The most recent set of pad monitoring well sample results available are for samples collected on November 3, 2011. Sampling of the pad monitor wells around EW-1 will continue until drilling and testing of EW-1 has been completed. Copies of the pad monitor well water quality data summary sheets are attached.

Should you have any questions regarding the above weekly construction summary, please contact David McNabb at (561) 891-0763.

Sincerely,

McNabb Hydrogeologic Consulting, Inc.

David McNabb, P.G.

Attachments: Consultant Daily Construction Log

Layne Christensen Company-Drilling Shift Report Pad Monitor Well Water Quality Data Summary Sheets

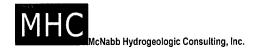
Daily Kill Material Log

Pilot Hole Water Quality Summary

Cc: George Heuler/FDEP-Tallahassee Emily Richardson/SFWMD Matthew Raffenberg/FPL

David Holtz/HCE

Joe Haberfeld/FDEP-Tallahassee Ron Reese/USGS David Paul/FGS





**Date:** November 3, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,222 feet bpl Ending Depth: 3,220 feet bpl

Weather Day: Sunny, Clear and Windy Recorded By: Marty Clasen/Sally Durall

Weather Night: Clear and Warm Activity: Pilot Hole Drilling

#### **CONSTRUCTION ACTIVITIES**

O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged over the interval of approximately 3,222 feet below pad level (bpl) to 3,227 feet bpl. The pilot hole is currently filling in at a depth of 3,222 feet bpl.

0830 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

O930 The drilling contractor continues dredging. Sand sized material clogs the bit when the drilling bit approaches a depth of approximately 3,222 to 3,224 feet bpl. The air line pressure drops below approximately 120 to 130 pounds per square inch (psi) and the drill pipe is raised up approximately 10 to 15 feet until the air line pressure returns to approximately 150 psi and then an attempt is made to advance the pilot hole again.

1030 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

1138 The drilling contractor pulled the drill pipe up to a depth of 3,208 feet bpl because of clogging and a drop in air line pressure to 130 psi.

1244 The drilling contractor is currently circulating at a depth of 3,209 feet bpl with an air line pressure of 126 psi.

1330 The drilling contractor is currently dredging at a depth of 3,222 feet bpl.

1430 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

1530 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

1639 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

1770 Till 1 'II' and the training and the delivery to the last held

1730 The drilling contractor is currently dredging at a depth of 3,224 feet bpl.

1900 The pilot hole has filled back in to a depth of 3,222 feet bpl.

2145 The drilling contractor is dredging the pilot hole at a depth of 3,222 feet bpl.

2335 The drilling contractor is dredging the pilot hole at a depth of 3,222 feet bpl.

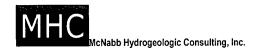
0150 The pilot hole has filled back in to a depth of 3,220 feet bpl.

0330 The drilling contractor is dredging the pilot hole at a depth of 3,220 feet bpl.

0510 The drilling contractor is dredging the pilot hole at a depth of 3,220 feet bpl.

0600 The drilling contractor is dredging the pilot hole at a depth of 3,220 feet bpl.

0700 The drilling contractor is dredging the pilot hole at a depth of 3,220 feet bpl.





**Date:** November 4, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,220 feet bpl Ending Depth: 3,227 feet bpl

Weather Day: Sunny and Clear Recorded By: Marty Clasen/Eric Meyer Weather Night: Clear and Warm

Activity: Pilot Hole Drilling

### **CONSTRUCTION ACTIVITIES**

O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged to a maximum depth of approximately 3,224 feet below pad level (bpl).

0830 The drilling contractor is currently dredging at a depth of 3,223 feet bpl.

0930 The drilling contractor continues dredging. Sand sized material clogs the bit when the drilling bit approaches a depth of approximately 3,222 to 3,224 feet bpl. The air line pressure drops below approximately 120 to 130 pounds per square inch (psi) and the drill pipe is raised up approximately 10 to 15 feet until the air line pressure returns to 150 psi and then an attempt is made to advance the pilot hole again.

1030 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,226 feet bpl.

1130 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,222 feet bpl.

1230 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,222 feet bpl.

1330 The drilling contractor continues to dredge the pilot hole. The maximum depth obtained today has been 3,226 feet bpl. However, the borehole continues to fill in and is consistently filling up to a depth of 3,216 feet bpl.

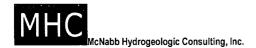
1430 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,222 feet bpl.

1530 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,220 feet bpl.

1630 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,219 feet bpl.

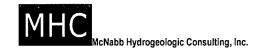
1730 The drilling contractor is currently dredging the pilot hole at a maximum depth of approximately 3,219 feet bpl.

1900 The drilling contractor is currently dredging the pilot hole at a depth of 3,222 feet bpl. The drill bit is being raised and lowered between the depths of approximately 3,212 feet and 3,222 feet bpl to clear the cuttings from the drill pipe and maintain air pressure to the wash pipe.





- The drilling contractor is currently dredging the pilot hole at a depth of 3,223 feet bpl.
- 2230 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,220 feet bpl.
- 2330 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,220 feet bpl where air pressure in the wash pipe declines. The bit must be raised to 3,213 feet bpl to permit the air pressure to recover.
- 0100 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,226 feet bpl.
- O220 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,226 feet bpl. The bit continues to being worked up and down within the depth interval from 3,217 feet to 3,226 feet bpl.
- O330 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,227 feet bpl.
- 0500 The drilling contractor is currently dredging the pilot hole to a depth of approximately 3,227 feet bpl.
- Of the drilling contractor is currently dredging the pilot hole to a depth of approximately 3,227 feet bpl.
- 0700 The drilling contractor continued dredging the pilot hole from 3,221 feet bpl to 3,227 feet bpl. The current depth is 3,227 feet bpl.





**Date:** November 5, 2011 FDEP UIC Permit #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,227 feet bpl Ending Depth: 3,223 feet bpl

Weather Day: Cool, sunny and clear Recorded By: Marty Clasen/Eric Meyer

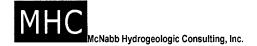
Weather Night: Trace Rain and mild

**Activity: Pilot Hole Drilling** 

### **CONSTRUCTION ACTIVITIES**

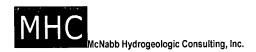
- O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged to a maximum depth of approximately 3,227 feet below pad level (bpl).
- 0830 The drilling contractor is currently dredging at a depth of 3,225 feet bpl.
- 0930 The drilling contractor continues dredging. Sand sized material clogs the bit when the drilling bit approaches a depth of approximately 3,222 to 3,224 feet bpl. The air line pressure drops below approximately 120 to 130 pounds per square inch (psi) and the drill pipe is raised up approximately 10 to 15 feet until the air line pressure returns to 150 psi and then an attempt is made to advance the pilot hole again.
- 1030 The drilling contractor is currently dredging at a depth of approximately 3,225 feet bpl.
- 1130 The drilling contractor continues dredging at a depth of 3,225 feet bpl.
- 1230 The drilling contractor is currently dredging at a depth of approximately 3,225 feet bpl.
- 1330 The drilling contractor is currently dredging at a depth of approximately 3,225 feet bpl.
- The drilling contractor continues to dredge the pilot hole at a depth obtained of 3,225 feet bpl.
- 1530 The drilling contractor is currently dredging at a depth of approximately 3,223 feet bpl.
- 1630 The drilling contractor is currently dredging at a depth of approximately 3,223 feet bpl.
- 1730 The drilling contractor is currently dredging at a depth of approximately 3,223 feet bpl.
- 1830 The drilling contractor is circulating the pilot hole with the bit positioned at the depth of 3,210 feet bpl.
- 1900 The drilling contractor is circulating the pilot hole with the bit positioned at the depth of 3,206 feet bpl.
- The drilling contractor tagged the top of the fill in the pilot hole at 3,219 feet bpl then pulled the bit up as pressure to the wash pipe declined.
- 1908 The drilling contractor tagged the top of the fill in the pilot hole at 3,220 feet bpl.

110511





2040 The drilling contractor is currently dredging at a depth of 3,220 feet bpl. 2130 The drilling contractor is currently dredging at a depth of 3,220 feet bpl. 2220 The drilling contractor is currently dredging at a depth of 3,223 feet bpl. 2350 The drilling contractor is currently dredging at a depth of 3,220 feet bpl. 2355 The drilling contractor is currently dredging at a depth of 3,222 feet bpl. 2358 The drilling contractor is currently dredging at a depth of 3,222 feet bpl. 0000 The drilling contractor is currently dredging at a depth of 3,222 feet bpl. 0100 The drilling contractor is currently dredging at a depth of 3,222 feet bpl. 0103 The drilling contractor is currently dredging at a depth of 3,223 feet bpl. 0200 Return to Eastern Standard Time; adjusted clock backward one hour. 0100 The drilling contractor is currently dredging at a depth of 3,222 feet bpl. 0200 The drilling contractor continues to dredge at a depth of approximately 3,222 0240 The drilling contractor is beginning to lose depth. Dredging is now occurring at 3,217 feet bpl. 0315 Dredging continues between the depths of 3,220 feet and 3,222 feet bpl. 0500 The drilling contractor is currently dredging at a depth of 3,221 feet bpl. 0600 The drilling contractor continues to dredge at a depth of approximately 3,221 feet bpl. 0700 The drilling contractor is currently dredging at a depth of approximately 3,223 feet bpl.





**Date:** November 6, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,223 feet bpl Ending Depth: 3,223 feet bpl

Weather Day: Cloudy, Windy, Rain Recorded By: Marty Clasen/Eric Meyer

Weather Night: Trace Rain and Mild

Activity: Pilot Hole Drilling

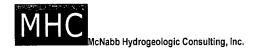
### **CONSTRUCTION ACTIVITIES**

- O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged to a maximum depth of approximately 3,227 feet below pad level (bpl).
- 0830 The drilling contractor is currently performing maintenance on the top head drive.
- O930 The drilling contractor continues dredging. Sand sized material clogs the bit when the drilling bit approaches a depth of approximately 3,218 feet bpl. The air line pressure drops below approximately 120 to 130 pounds per square inch (psi) and the drill pipe is raised up approximately 10 to 15 feet until the air line pressure returns to 150 psi and then an attempt is made to advance the pilot hole again.
- 1030 The drilling contractor is currently dredging at a depth of approximately 3,218 feet bpl.
- 1130 The drilling contractor is currently dredging at a depth of approximately 3,219 feet bpl.
- 1230 The drilling contractor is currently dredging at a depth of approximately 3,219 feet bpl.
- 1330 The drilling contractor is currently dredging at a depth of approximately 3,220 feet bpl.
- 1430 The drilling contractor continues to dredge the pilot hole at a depth of 3,220 feet bpl.
- 1530 The drilling contractor is currently dredging at a depth of approximately 3,220 feet bpl.
- 1630 The drilling contractor is currently dredging at a depth of approximately 3,220 feet bpl.
- 1730 The drilling contractor is currently dredging at a depth of approximately 3,220 feet bpl.
- 1830 The drilling contractor continues dredging the pilot hole to a depth of approximately 3,220 feet bpl.
- 1923 The drilling contractor dredged down to a depth of approximately 3,220 feet bpl before immediately pulling the bit off bottom to restore air pressure to the wash pipe.





- 2009 The drilling contractor has circulated the pilot hole at a depth of 3,204 feet bpl for 45 minutes. The bit was then lowered to the top of fill at approximately 3,220 feet bpl and was slowly advanced in roughly 0.2 foot increments. Pressure continued to hold at about 145 psi until the bit reached the depth of 3,224 feet bpl.
- 2100 The drilling contractor is circulating the pilot hole with the bit positioned at 3,210 feet bpl.
- 2200 The drilling contractor dredged down to a depth of 3,226 feet bpl and was able to maintain circulation for about 30 minutes with the bit on bottom.
- 2315 The drilling contractor dredged down to a depth of 3,225 feet bpl. A repetition of lowering and raising the drill bit continues to maintain air pressure in the wash pipe.
- 0000 The drilling contractor dredged down to a depth of 3,225 feet bpl.
- The drilling contractor is circulating the pilot hole with the bit positioned at 3,211 feet bpl.
- 0130 The drilling contractor dredged down to a depth of 3,225 feet bpl.
- The drilling contractor continues to dredge the pilot hole. The fill was tagged at the depth of 3,222 feet bpl and the bit was lowered to 3,223 feet bpl where pressure in the wash pipe rapidly declined.
- The drilling contractor is having difficulty restoring air pressure to the wash pipe. The bit has been raised to 3,184 feet bpl and the air is being surged to clear the drill pipe.
- 0330 The drilling contractor continues efforts to restore air pressure to the wash pipe for reverse-air circulation.
- O445 The drilling contractor continues efforts to restore air pressure and reverse-air circulation. The drill pipe is being refilled with water and surged with air in an effort to restore fluid movement within the drill pipe.
- The drilling contractor continues efforts to restore reverse-air circulation. The drill pipe is being refilled with water and surged with air in an effort to restore fluid movement within the drill pipe.
- O630 The drilling contractor continues efforts to restore air pressure to the wash pipe for reverse-air circulation.
- 0700 The drilling contractor continues efforts to restore air pressure to the wash pipe for reverse-air circulation.





**Date:** November 7, 2011 **FDEP UIC Permit** #:0293962-001-UC

Project: FPL Turkey Point EW Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch
Starting Depth: 3,223 feet bpl
Weather Day: Cool, cloudy, windy
Recorded By: Marty Clasen

Weather Night: N/A Activity: Pilot Hole Drilling

### **CONSTRUCTION ACTIVITIES**

O700 Yesterday, the drilling contractor continued dredging the pilot hole. The pilot hole was dredged to a maximum depth of approximately 3,226 feet below pad level (bpl). During the night, the drilling bit plugged off at a depth of 3,223 feet bpl and reverse-air circulation was lost. The drilling contractor has attempted to regain circulation by flushing the drill pipe with water and surging the pipe with air pressure, but so far, has not been successful.

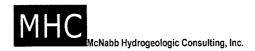
0720 The drilling contractor decided to trip out the drill pipe because the bit is plugged off and circulation could not be regained. Tripping out the entire drill string is expected to take most of the shift. No drilling will be conducted tonight or tomorrow because the drilling contractor will be conducting safety training.

1200 The drilling contractor has tripped out of hole and is in the process of killing the well.

1430 The drilling contractor has removed the  $12 \frac{1}{4}$ -inch diameter drill bit and will replace it with a new bit.

1630 The drilling contractor has shut-in the well and there will be no construction activity until Wednesday morning to allow scheduled safety training.

1700 Off site.





Date: November 8, 2011

FDEP UIC Permit #:0293962-001-UC

**Project:** FPL Turkey Point EW

Well No.: EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 1/4-inch

Ending Depth: 3,223 feet bpl

Starting Depth: 3,223 feet bpl

Recorded By: Sally Durall

Weather Day: N/A

Weather Night: N/A

Activity: No Construction Activities

### **CONSTRUCTION ACTIVITIES**

No construction activities took place on site today due to scheduled drilling contractor safety training.





**Date:** November 9, 2011 **FDEP UIC Permit** #:0293962-001-UC

**Project:** FPL Turkey Point EW **Well No.:** EW-1

Contractor: Layne Christensen Company Bit Diameter: 12 ¼-inch Starting Depth: 3,223 feet bpl Ending Depth: 3,231 feet bpl

Weather Day: Partly Cloudy and Warm Recorded By: Sally Durall/Deborah Daigle

Weather Night: Clear and Cool Activity: Pilot Hole Drilling

### **CONSTRUCTION ACTIVITIES**

- No work was performed at the drilling site yesterday due to a scheduled safety meeting for the drilling contractor. On November 6, 2011 the drilling bit plugged off while dredging at a depth of 3,223 feet below pad level (bpl). After several unsuccessful attempts to unplug the bit, the drilling contractor tripped out of the hole with the drill pipe and drilling bit. The drill bit was replaced with a new drill bit.
- 0840 The drilling contractor begins to trip in the borehole with the drill pipe and drilling bit.
- The drilling contractor continues to trip in the borehole with drill pipe and drilling bit.
- 1230 The drilling contractor continues to trip in the borehole with drill pipe and drilling bit.
- The drilling contractor resumes dredging the pilot hole. The top of the dredge material was encountered at a depth of 3,223 feet bpl.
- 1540 The drilling contractor is dredging the pilot hole at depth of 3,226 feet bpl.
- 1645 The drilling contractor is dredging the pilot hole at depth of 3,231 feet bpl.
- 1735 The pilot hole has filled back in to a depth of 3,227 feet bpl.
- 1845 The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl.
- 2030 The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl.
- 2200 The pilot hole has filled back in to a depth of 3,225 feet bpl.
- 0015 The drilling contractor is dredging the pilot hole at depth of 3,225 feet bpl.
- 0100 The drilling contractor is dredging the pilot hole at depth of 3,225 feet bpl.
- 0200 The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl.
- O330 The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl.
- 0430 The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl.
- The drilling contractor is dredging the pilot hole at depth of 3,229 feet bpl. The pressure is holding at the maximum depth, so the drilling contractor is removing the bells on the top head and will attempt to advance the hole to 3,234 feet bpl.
- 0600 The drilling contractor is dredging the pilot hole at depth of 3,234 feet bpl.
- 0700 The drilling contractor is dredging the pilot hole at depth of 3,231 feet bpl.



### COMPANY - DRILLING SHIFT REPORT

	PERSONNEL EMPLOYED TODA	
SITE NAME	EW1	L-2011-503 Enclosure 3 Page 14 of 3
CONT_	FPL	Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041
		LAYNE CHRISTENSEN

DATE	11	-3-11
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11		or my

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MARTEHOCATION TUVKEY

Labor Activity

DAILY ACCOUNTING OF ACTIVITIES BY ITEM I

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Install Surface Casing

Aquiller Zone Testing

Ilorehole Abandonment

nstal Conductor Pipe

Aquifer Zone Testing

Under Reaming

Install Casing

nstall Screen Gravel Pack The Well

Instal Annular Sool

Water Watching

Or# Pliat Hale

roduction Wellinstallation

install Roadway & Drill Pad

Seophysical Lagging & Other Tasting

Seaphysical Logging & Other Testing

Marchole Abandonmen /Comont Plugs

Well Development Air Ult and Swab

urnish & install Test Pump and Discharge

Disposal of Fluids & Cuttings

Disinfection and Chiomnation

Offsite Activities Mab/Demob

Fishing for Lost/Broken Tooling Change Order Activities

TOTAL HOURS

Development Pumping

Test Pumping

Administration

Other Adionies Standby

Equipment Repairs

Damages ob Superintendent

Lunch

Shon

Install Decon Pad

Test Hale Drilling

Onsite Mob/Demob

Training - Overhead Thop - Overhead

Maintenance - Overhead

Training - Job Chargeable

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13650

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14150

14300

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19100

19550

19600

SECOLO

Crew Assignment	Employee - Full Name	Per Diem <sup>3</sup> (X)	Onsite Hours	Offsice Hours	Total Hours
viller	George Haga	X	12		12
SD	James Paynie	X	12		12
AP	Andrey Popor	X	12		12
Lon	Jim mcdownell	X	12		12
B6-	Bosit Gullmor	X	ų		ب
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Down on Site	DN	Available on J	lob	AV

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM # Circle One

	TIAL STATE OF COURT
Quantity	Description
	1st Saftey Meeting: Bringing Chemicals
	to Jobsite w/out
	msds
	2nd Safty meeting: Trip hazards ow
	r.q.
	Saffey topics
	PRE, Hand Signal Safter, high pressure
	lines, overhead safter, Fall protection

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COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to diedge from 3220 bpl to 3225 bpl
Straighten up welding avea, organize and Straight
EN. pallets in lay down area, covered and aligned.
Scrub floor, and alean and organize engatile.

Semilial's Signatury

AUCCESSIBLISHED

Client's Signature

PAYROLL

flam

Supervisor's Signature



(day)	CLIENT FPL	Proposed	Turkey Po	oint Units	6 and 7	<del>(maria</del>	. 11-	- 3.~	201	!!		JOB	11771	
	F.1.1.1	Docket No L-2011-50				491	Tho	- 3 - vs. ir	zi`shd	<u> </u>	IOR	SITE LOCATION	7. Al. O.	n'a f
	JOBS TE NAME PERSONNEL EMPLOYED TODAY						EQUIPME	NT DEPLOYED TO	DDAY		,,,,,,		Darf & William Zeng of Stillellighted & Like &	······································
Crew	14	Per Diem?"	Onsite	Offsite	Total	-	Ψ.	d	.1		ltein #	- Cost Code	Labor Activity	Hours -
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### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT.

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Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 3 Page 17 of 31

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Client's Signature



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### LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Proposed Turkey Point Units 6 and 7 Docket Nos. 52-040 and 52-041 L-2011-503 Enclosure 3 Page 18 of 31

DATE - 11/5-/11 510 7 - 00495466

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Tarker, Point

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EQUIPMENT DEPLOYED TODAY

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11/5/11

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	Proposed <sup>2</sup>	Гurkey Ро	int Units 6	6.and.7	MPANY - D	RILLING	11/6	REPOR			3001	11771		
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Chart : Section:

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### LAYNE CHRISTENSEN COMPANY - DRICEING SHIFT REPORT

	CLEINT FPL	Proposed				DAT	e <i>[i]</i> ,	-09	-			JOB	11.141	<u></u>
	EIX/ 1	Docket No				-	18/2	odn.	72.	الصفار			Turker En	7
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Project: Florida Power & Light Company
Miami-Dade County, Florida
Exploratory Well EW-1

MHC



### EW-1 Pad Monitoring Well Water Quality Data Northeast Pad Monitoring Well (NE-EW PMW)

<u> </u>			1				T	
		Depth to	Water	Specific				
Date	Time	Water	Elevation	Conductance	Chloride	TDS	Temperature	Remarks
	(hours)	(ft. btoc)	(ft. NAVD 88)	(umhos/cm)	(mg/L)	(mg/L)	(degrees C)	
4/21/2011	1108	10.49	-1.61	78,700	32,200	57,000	29.8	Background Sampling
4/29/2011	1157	10.68	-1.80	80,400	29,900	53,800	30.4	
5/5/2011	1157	11.40	-2.52	81,400	27,500	52,350	31.2	
5/11/2011	1309	11.00	-2.12	76,800	31,600	51,200	29.7	
5/19/2011	0958	10.48	-1.60	72,600	35,600	51,200	29.5	
5/26/2011	1050	10.76	-1.88	71,360	29,500	52,900	29.7	
6/2/2011	1134	10.78	-1.90	71,700	29,000	55,700	29.6	
6/9/2011	1128	10.61	-1.73	69,700	32,300	50,650	29.3	
6/16/2011	0958	10.35	-1.47	69,300	33,000	53,450	29.5	
6/23/2011	1028	10.41	-1.53	69,400	30,600	55,600	29.5	
6/30/2011	0928	10.15	-1.27	70,300	27,600	51,950	29.2	
7/8/2011	1210	9.00	-0.12	72,570	30,100	54,150	29.9	
7/14/2011	1338	9.75	-0.87	76,400	27,200	54,550	29.9	
7/21/2011	1039	9.35	-0.47	72,200	32,600	49,760	29.7	
7/28/2011	1119	9.51	-0.63	71,600	30,200	54,250	29.7	
8/4/2011	1249	9.70	-0.82	64,400	31,500	53,850	27.5	
8/11/2011	1059	9.25	-0.37	73,900	29,500	57,150	29.6	
8/18/2011	1039	9.45	-0.57	71,900	29,400	54,850	30.0	
8/25/2011	1039	9.45	-0.57	69,800	31,300	55,550	29.7	
9/1/2011	1109	9.15	-0.27	71,700	29,500	56,300	29.9	
9/8/2011	1049	9.15	-0.27	70,700	31,400	49,800	30.3	
9/16/2011	1233	9.30	-0.42	5320*	1260*	2668*	27.8	
9/23/2011	1129	9.10	-0.22	72,900	31,200	52,750	30.1	
9/29/2011	1330	9.16	-0.28	11,500*	3,200*	7,010*	27.8	
10/6/2011	1119	9.30	-0.42	72,600	30,000	56,200	30.1	
10/13/2011	1058	10.15	-1.27	75,200	32,500	51,600	30.1	
10/20/2011	1049	8.40	0.48	68,400	29,100	57,450	29.9	
10/27/2011	1109	8.95	-0.07	80,200	27,700	54,950	30.0	
11/3/2011	1049	8.91	-0.03	80,200	31,100	55,700	29.9	
							<u> </u>	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

\*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurance have been implemented.

Note: TOC elevation is: 8.88 feet NAVD 88

Project: Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1

MHC



### EW-1 Pad Monitoring Well Water Quality Data Southeast Pad Monitoring Well (SE-EW PMW)

1		Depth to		Specific				
Date	Time	Water	Water Elevation	Conductance	Chloride	TDS	Temperature	Remarks
	(hours)	(ft. btoc)	(ft. NAVD 88)	(umhos/cm)	(mg/L)	(mg/L)	(degrees C)	
4/21/2011	1311	10.10	-1.51	81,600	30,200	57,800	29.9	Background Sampling
4/29/2011	1349	10.40	-1.81	86,700	33,100	55,000	30.4	
5/5/2011	1008	11.10	-2.51	83,000	29,500	54,700	29.9	
5/11/2011	1228	10.65	-2.06	78,200 .	30,100	52,600	30.1	
5/19/2011	1039	10.12	-1.53	75,200	30,000	51,100	29.8	
5/26/2011	1235	10.47	-1.88	73,890	31,200	53,800	29.9	
6/2/2011	1056	10.50	-1.91	74,200	29,400	57,400	29.6	
6/9/2011	1210	10.32	-1.73	72,200	32,100	51,000	29.6	
6/16/2011	1035	10.00	-1.41	71,300	32,200	54,000	29.8	,
6/23/2011	1109	10.10	-1.51	71,900	31,600	55,650	29.8	
6/30/2011	1009	9.85	-1.26	72,800	27,600	53,050	29.5	
7/8/2011	1138	9.12	-0.53	73,150	29,800	54,450	29.9	
7/14/2011	1414	9.48	-0.89	79,700	29,000	55,350	29.8	
7/21/2011	1119	9.36	-0.77	74,100	34,000	54,100	30.0	
7/28/2011	1229	9.55	-0.96	74,300	30,200	56,300	29.8	
8/4/2011	1224	9.50	-0.91	72,700	31,500	53,000	27.7	
8/11/2011	1209	9.37	-0.78	77,400	30,000	56,800	29.7	
8/18/2011	1149	9.45	-0.86	74,100	30,100	55,500	30.0	
8/25/2011	1149	9.38	<b>-</b> 0.79	73,300	31,200	57,450	29.6	
9/1/2011	1224	9.10	-0.51	72,700	30,700	57,300	29.8	
9/8/2011	1159	9.21	-0.62	73,200	32,200	51,800	30.1	
9/16/2011	1303	9.40	-0.81	70,280	29,600	50,550	27.7	
9/23/2011	1239	9.20	-0.61	75,200	29,000	55,550	29.8	
9/29/2011	1300	9.10	-0.51	68,500	30,700	53,600	27.4	
10/6/2011	1229	9.25	<b>-</b> 0.66	79,100	31,300	54,050	30.0	
10/13/2011	1209	9.95	-1.36	76,900	30,200	52,250	30.1	
10/20/2011	1200	8.60	-0.01	69,900	28,000	57,150	29.8	
10/27/2011	1218	8.81	-0.22	82,400	28,000	56,500	30.0	
11/3/2011	1159	9.56	-0.97	82,900	31,000	56,400	30.1	

ft. btoc: feet below top of casing TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.59 feet NAVD 88

Project: Florida Power & Light Company

Miami-Dade County, Florida Exploratory Well EW-1





### EW-1 Pad Monitoring Well Water Quality Data Northwest Pad Monitoring Well (NW-EW PMW)

Date	Time (hours)	Depth to Water (ft. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1221	10.50	-1.66	84,300	33,500	59,900	30.8	Background Sampling
4/29/2011	1120	10.65	-1.81	86,300	33,700	56,400	30.0	
5/5/2011	1051	11.40	-2.56	87,400	31,300	57,650	31.1	
5/11/2011	1034	12.40	-3.56	79,100	33,500	55,650	30.4	
5/19/2011	1113	13.90	-5.06	80,000	36,000	53,700	30.4	
5/26/2011	1125	10.73	-1.89	75,130	32,300	55,450	30.4	
6/2/2011	1215	10.75	-1.91	75,900	30,700	59,500	30.3	
6/9/2011	1248	10.60	-1.76	72,500	32,200	51,950	29.9	
6/16/2011	1118	10.25	-1.41	72,500	31,500	54,550	30.0	
6/23/2011	1143	10.37	-1.53	73,300	31,600	57,750	30.3	
6/30/2011	1049	10.10	-1.26	75,700	27,400	54,300	30.0	
7/8/2011	1112	9.38	-0.54	74,100	30,700	53,950	30.3	
7/14/2011	1524	9.75	-0.91	79,900	27,600	56,350	30.3	
7/21/2011	1226	9.60	-0.76	76,200	32,600	54,500	29.7	
7/28/2011	1154	9.80	-0.96	74,900	32,200	57,050	30.5	
8/4/2011	1317	9.85	-1.01	78,000	30,500	59,300	28.7	
8/11/2011	1134	9.61	-0.77	77,600	31,100	58,150	30.4	
8/18/2011	1114	9.68	-0.84	73,100	30,000	55,350	30.6	
8/25/2011	1114	9.61	-0.77	72,300	31,800	56,950	30.0	
9/1/2011	1149	9.33	<b>-</b> 0.49	71,900	29,300	56,000	30.4	
9/8/2011	1124	9.45	-0.61	73,800	30,100	52,300	30.5	
9/16/2011	1203	9.60	-0.76	67,200	23,400	51,650	28.2	,
9/23/2011	1204	9.43	-0.59	73,800	30,800	54,450	30.4	
9/29/2011	1205	9.35	<b>-</b> 0.51	68,700	27,500	50,800	27.6	
10/6/2011	1154	9.50	-0.66	78,400	30,000	56,550	30.2	
10/13/2011	1133	10.21	-1.37	75,800	29,300	50,500	30.2	
10/20/2011	1124	8.81	0.03	70,200	27,500	56,850	30.1	
10/27/2011	1143	10.39	-1.55	81,500	28,800	54,600	30.2	
11/3/2011	1123	10.50	-1.66	80,500	30,400	55,900	30.1	
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ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius
Note: TOC elevation is:

8.84 feet NAVD 88

Project: Florida Power & Light Company Miami-Dade County, Florida

Exploratory Well EW-1





### EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-EW PMW)

Date	Time (hours)	Depth to Water (fl. btoc)	Water Elevation (ft. NAVD 88)	Specific Conductance (umhos/cm)	Chloride (mg/L)	TDS (mg/L)	Temperature (degrees C)	Remarks
4/21/2011	1414	10.50	-1.62	72,500	26,400	51,500	30.6	Background Sampling
4/29/2011	1025	10.60	-1.72	77,400	28,300	51,600	29.8	
5/5/2011	0930	11.85	-2.97	75,200	29,000	49,400	28.7	
5/11/2011	1124	16.40	-7.52	78,100	28,300	51,050	31.6	
5/19/2011	1202	15.95	-7.07	73,100	29,700	48,450	32.6	
5/26/2011	1155	11.20	-2.32	66,630	27,800	48,350	29.4	
6/2/2011	1035	11.25	<b>-</b> 2.37	68,500	26,000	52,600	29.4	
6/9/2011	1319	11.05	-2.17	65,400	26,300	44,150	29,5	
6/16/2011	1154	10.75	-1.87	64,900	27,000	48,450	29.5	
6/23/2011	1214	10.85	-1.97	65,500	30,400	50,800	29.6	
6/30/2011	1119	10.60	-1.72	68,500	24,300	46,650	29.4	
7/8/2011	1045	9.85	-0.97	64,950	25,600	47,650	29.6	
7/14/2011	1445	10.22	-1.34	69,900	24,800	48,300	29.6	
7/21/2011	1154	10.10	-1.22	67,800	27,400	47,900	29.6	
7/28/2011	1259	10.26	-1.38	67,000	26,600	48,650	27.7	
8/4/2011	1157	10.30	-1.42	68,420	25,600	51,350	27.5	
8/11/2011	1243	9.21	-0.33	67,800	26,400	51,150	29.7	
8/18/2011	1219	10.15	-1.27	66,300	25,400	47,500	29.8	
8/25/2011	1219	10.31	-1.43	66,000	26,900	50,150	29.4	· ·
9/1/2011	1254	9.87	<b>-</b> 0.99	65,400	25,700	49,450	29.8	
9/8/2011	1229	9.97	-1.09	66,800	26,300	46,500	29.9	
9/16/2011	1329	10.10	-1.22	64,000	25,700	46,800	28.0	
9/23/2011	1309	9.95	-1.07	66,200	25,800	47,500	29.6	
9/29/2011	1230	9.80	-0.92	64,100	25,400	46,150	27.7	
10/6/2011	1259	9.97	-1.09	76,200	25,800	45,800	29.7	
10/13/2011	1239	10.67	-1.79	69,100	26,100	46,700	29.8	
10/20/2011	1229	9.31	-0.43	64,700	23,800	51,100	29.6	
10/27/2011	1249	10.87	-1.99	75,600	26,500	50,000	29.7	
11/3/2011	1229	10.93	-2.05	75,600	27,700	49,750	29.7	
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ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988

umhos/cm: micromhos per centimeter mg/L: milligrams per liter

C: Celsius

Note: TOC elevation is:

8.88 feet NAVD 88

## Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log

Date Depth (feet bpl)		Kill Used	Approximate	Approximate
7/7/2011	1655	Dontonito /Donito	Volume (gallons) 569	Quantity (pounds)
7/7/2011	<del></del>	Bentonite /Barite		
7/8/2011	1655 1655	Bentonite /Barite Bentonite /Barite	6,064 2,085	
7/9/2011				
7/10/2011	1655	Bentonite /Barite	1,137	
7/11/2011	1655	Bentonite /Barite	9,475	
7/12/2011	1655	Bentonite /Barite	759	
7/13/2011	1655	Bentonite /Barite	4,548	
7/15/2011	1655	Bentonite /Barite	1,925	
7/16/2011	1655	Bentonite /Barite	2,200	
7/17/2011	1655	Bentonite /Barite	284	
7/18/2011	1655	Bentonite /Barite	275	
7/19/2011	1655	Bentonite /Barite	275	
7/31/2011	1542	Bentonite /Barite	18,950	
8/1/2011	1542	Bentonite /Barite	4,548	
8/2/2011	1542	Bentonite /Barite	284	
8/5/2011	1542	Bentonite /Barite	4,548	
8/6/2011	1542	Bentonite /Barite	2,274	
8/10/2011	1542	Bentonite /Barite	6,443	
8/10/2011	1542	Salt		2,000
8/13/2011	1722	Bentonite /Barite	6,250	
8/14/2011	1722	Bentonite /Barite	379	
8/17/2011	2026	Salt		2,000
8/18/2011	2026	Bentonite /Barite	379	2,000
8/19/2011	2110	Bentonite/Barite and Salt	570	2,000
8/20/2011	2110	Bentonite /Barite and Salt	189	4,000
8/21/2011	2288	Salt		6,000
8/22/2011	2288	Salt		4,000
8/24/2011	2396	Bentonite /Barite and Salt	379	2,000
8/25/2011	2396	Salt		4,000
8/26/2011	2576	Bentonite /Barite and Salt	379	2,000
8/28/2011	2580	Bentonite /Barite and Salt	379	6,000
8/30/2011	2638	Salt		4,000
8/31/2011	2638	Bentonite /Barite/Salt	569	2,000
9/1/2011	2652	Bentonite /Barite	379	
9/2/2011	2666	Salt		2,000
9/3/2011	2666	Bentonite /Barite	569	
9/10/2011	3214	Salt		6,000
9/11/2011	3210	Salt		4,000
9/19/2011	3227	Salt		4,000

## Florida Power & Light Company Turkey Point Exploratory Well EW-1 Daily Kill Material Log

Date	Depth (feet bpl)	Kill Used	Approximate Volume (gallons)	Approximate Quantity (pounds)
9/22/2011	3228	Salt		4,000
10/9/2011	3220	Salt		6,000
10/10/2011	3220	Salt		6,000
10/12/2011	3227	Salt		4,000
10/23/2011	3234	Salt		6,000
10/29/2011	3211	Salt		6,000
11/7/2011	3223	Salt		6,000
feet bpl = feet	below pad level			·

## Florida Power & Light Company **Turkey Point Exploratory Well EW-1 Pilot Hole Water Quality**

			Total			Total
Sample	Depth (ft	Conductivity	Dissolved	Chlorides	Ammonia	Kjeldahl
Date	bpl)	(umhos/cm)	Solids	(mg/L)	(mg/L)	Nitrogen
			(mg/L)	_		(mg/L)
6/30/2011	1,100	1,228	610	61.3	0.04	0.55
7/1/2011	1,190	1,177	768	85.5	0.06	0.59
7/1/2011	1,255	1,167	776	97.3	0.03	0.56
7/1/2011	1,345	2,420	1,428	551	0.06	0.42
7/1/2011	1,435	2,900	1,736	640	0.08	0.44
7/2/2011	1,525	6,760	4,168	2,045	0.09	0.35
7/3/2011	1,615	5,660	3,548	1,670	0.08	0.45
8/13/2011	1,704	9,500	5,688	3,120	U	0.56
8/15/2011	1,794	14,670	9,260	5,010	U	0.57
8/16/2011	1,884	20,400	13,520	7,180	U	0.38
8/17/2011	1,974	25,190	16,910	9,160	U	0.22
8/19/2011	2,064	37,000	24,280	14,400	U	0.71
8/21/2011	2,154	30,000	18,525	11,000	U	0.32
8/21/2011	2,244	32,100	16,967	11,500	U	0.17
8/23/2011	2,334	60,100	40,400	26,000	U	0.44
8/25/2011	2,424	38,200	23,200	14,200	U	0.17
8/26/2011	2,514	39,130	26,867	14,200	U	0.18
8/29/2011	2,604	48,400	32,767	17,400	U	0.13
9/4/2011	2,694	63,800	41,500	27,200	U	0.12
9/4/2011	2,784	59,600	40,400	25,800	U	0.12
9/5/2011	2,874	52,200	34,000	25,600	U	0.25
9/5/2011	2,964	47,240	31,200	17,900	U	0.28
9/6/2011	3,054	50,000	32,000	19,500	U	0.25
9/6/2011	3,144	49,900	33,100	19,500	U	0.47
10/23/2011	3,234	52,700	40,250	21,100	U	0.54

ft bpl = feet below pad level

umhos/cm - micromhos per centimeter

mg/L = milligrams per liter
U = undetected

Note: Pilot hole water quality may be influenced by salt used to control artesian head.