



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:

1. 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:

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
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

DO97
LRD

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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
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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



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.

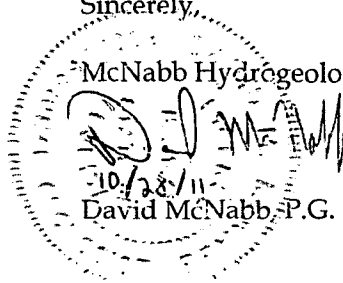
During the next reporting period, it is anticipated that the drilling contractor will complete pilot hole drilling to a depth of 3,500 feet bpl, perform geophysical logging of the pilot hole and begin packer testing of the pilot hole unless dredging of the pilot hole continues.

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.



10/28/11
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 Haberland/FDEP-Tallahassee
Ron Reese/USGS
David Paul/FGS



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Daily Construction Log

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 1/4-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

CONSTRUCTION ACTIVITIES

- 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.
- 1030 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.
- 1300 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.
- 1645 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.
- 0230 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.
- 0445 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



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stay at Kelly Down (3,234 feet bpl) for approximately 13 minutes before pulling up.

- 0600 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.



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Daily Construction Log

Date: October 21, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,234 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Clear and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,234 feet bpl
Recorded By: Eric Meyer/Mark McNeal

CONSTRUCTION ACTIVITIES

- 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.
- 0730 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.
- 1245 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.
- 1300 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.
- 1445 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.
- 1630 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.
- 1845 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.



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- 2300 The drilling contractor is dredging in the 3,232 feet to 3,234 feet bpl interval.
- 0130 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.
- 0445 The drilling contractor is circulating the borehole at 3,234 feet bpl. The hole is more stable but is continuing to dredge.
- 0515 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.
- 0600 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.



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Daily Construction Log

Date: October 22, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,234 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Clear and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,234 feet bpl
Recorded By: Eric Meyer/Mark McNeal

CONSTRUCTION ACTIVITIES

- 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.
- 0900 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).
- 0950 The drilling contractor begins dipping the slurry pit and transporting cuttings to the storage area.
- 1000 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.
- 1030 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.
- 1200 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.



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- 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.
- 0500 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.
- 0630 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.



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Daily Construction Log

Date: October 23, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,234 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Clear and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,241 feet bpl
Recorded By: Eric Meyer/Mark McNeal

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0834 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.
- 1600 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.
- 1626 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.



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- 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.
- 0145 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.
- 0345 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.
- 0345 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.
- 0545 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.
- 0645 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.



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Daily Construction Log

Date: October 24, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,241 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Clear, Windy, and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,241 feet bpl
Recorded By: Eric Meyer/Sally Durall

CONSTRUCTION ACTIVITIES

- 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.



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- 0150 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,239 feet bpl.
- 0325 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.



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Daily Construction Log

Date: October 25, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,241 feet bpl
Weather Day: Clear and Warm
Weather Night: Cloudy, Light Rain, Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,237 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0930 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.
- 1530 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.
- 2130 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.
- 0030 The drilling contractor continues to dredge the pilot hole. The pilot hole is currently at a depth of 3,239 feet bpl.
- 0330 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.



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Daily Construction Log

Date: October 26, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,237 feet bpl
Weather Day: Clear and Warm
Weather Night: Partly Cloudy and Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,252 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0930 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.
- 0015 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,238 feet bpl.
- 0230 The drilling contractor continues dredging the pilot hole between the depths of 3,238 feet to 2,245 feet bpl.
- 0420 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.
- 0700 The drilling contractor is dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,252 feet bpl.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F.P.L

Proposed Turkey Point Units 6 and 7

~~Docket Nos. 52-040 and 52-041~~

DATE _____

10-20-2011

108.5

1177

JOB SITE NAME

FW-1

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THUR DAYS

JOB SITE LOCATION

T. D.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	BOSI + GULOMOV	X	12		12
VI	VLAD ISTIMOV	X	12		12
SL	JOAN LOPEZ	X	12		12
BC	BILLY CRAWFORD,	X	12		12

EQUIPMENT DEPLOYED TODAY

Description			Unit #	Status
Working	WK	Mobilization		MB
Standby	SB	Demobilization		DM
Down In Shop	DS	Available in Yard		AY
Down on Site	DN	Available on Job		AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
TOTAL HOURS			

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
①	EYE AND FACE PROTECTION:
②	FOOT PROTECTION:
	PINCH POINT: HIGH PRESS LINES: LOADER SAFETY:
	HAND SAFETY: PPE:

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE DREDGING 12" BIT! FROM 3225' BPL TO 3232' BPL. LOST 8' KEEP LOSING AIR PRESS;
PRESS WASH RIG AND CANRIG;

Installer's Signature
ICC DSR 1082309

10-20-11
Date

Client's Signature

PAYROLL

Date _____

Supervisor's Signature

Date _____

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPLProposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 1 Page 19 of 35DATE 10-21-11
RSI NIGHTJOB # 11771JOBSITE NAME FWIJOBSITE LOCATION TP

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
PSILLER	Danny Keeley	X	12		12
NWR	MICHAEL Ramirez	X	12		12
IP	IGOR POPOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	WK	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MEETING
#1	SAFETY vs PRODUCTIVITY
	LABOR SAFETY
#2	DRIVING HOME AFTER NIGHTSHIFT
	PPL - HOUSE KEEPING - LABOR SAFETY -
	WASHPRESSUR 120505 - MENTAL PRESENT

TIME OF ACTIVITY BY ITEM

From	To	Circle One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE DREGGING 12/11/3 228' BPL TO 3234'

FINISH FABING TOOL RACK PAINT

TOOLS AND EQUIPMENT SEAL ROOF OF USED OIL AREA.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT F. P. L.Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 1 Page 20 of 35DATE 10-22-11
SAT DAYSJOB # 11771JOBSITE NAME FW-1JOBSITE LOCATION T. P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSI + GULOMOV	X	12		12
VF	VLAD ISHIMOV	X	12		12
SL	JOAN LOPEZ	X	12		12
BC	BILLY CRAWFORD	X	12		12
JP	JAMES PAYNE	-	4		4

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	WK	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
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27	13500	Install Screen	
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30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
①	BAD WEATHER DRIVING
	REMINDER.
②	DRIVER DISTRACTIONS:
	DUMP TRUCK. ⑤
E.C.	ELLIS - 7:00AM - TO - 5:30PM.

TIME OF ACTIVITY BY ITEM

From	To	Circle One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DREDGING 12 1/4 BIT: FROM 3230' BPL - TO 3234' BPL
SEALED ROOF ON BETWEEN DOG HOUSE, HELP ELLIS:
CLEAN UP JOB SITE;

10-22-11
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F.P.L.

Proposed Turkey Point Units 6 and 7

DATE

10-23-2011

JOB #

11771

JOBSITE NAME

EW-1

Docket Nos: 52-040 and 52-041

L-2011-503 Enclosure 1 Page 22 of 35

SUN DAYS

JOBSITE LOCATION

T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIT GULEMEV	X	12		12
VI	VLAD ISHIMOV	X	12		12
JL	JOAN LOPEZ	X	12		12
BC	BILLY CRAWFORD	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	WK	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
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30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG:
①	OPERATING CUT-OFF SAWS
	SAFETY:
②	PNEUMATIC TOOLS:
	PPE: HAND SAFETY: HIGH PRESS LINES:
	LOADER SAFETY: PINCH POINT:
	ELLIS - 7:30 PM - TO -

TIME OF ACTIVITY BY ITEM

From	To	Circle One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

DRILL 12 1/4 BIT: FROM / - 3230' BPL TO 3234' BPL.
DREDGING KEEP LOSING AIR PRESS: DREDGING LOSING 3'-4'
HELPING ELLIS: CLEAN RIG PAD: MAKE CONNECTION GO BACK
DREDGING 3234' BPL 3236' BPL. KILL BACK SIDE 3. BAG
SALT;

Signature
LCC 0821 082209

10-23-11
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

FPL

Proposed Turkey Point Units 6 and 7

~~Docket Nos. 52-040 and 52-041~~

L-2011-503 Enclosure 1 Page 23 of 35

DATE _____

10/23/11

JOB #

1177

JOB SITE NAME

EW-1

SUN NIGHT

JOB SITE LOCATION

T.P.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	GEORGE HAGA	X	12		12
J.P.	JAMES PAYNE	X	12		12
J.M	JAMES McDONNELL	X	12		12
A.P.	ANDREY POPOV	X	12		12

EQUIPMENT DEPLOYED TODAY

Description			Unit #	Status
Working	WK	Mobilization	MB	
Standby	SB	Demobilization	DM	
Down in Shop	DS	Available in Yard	AY	
Down on Site	DN	Available on Job	AV	

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	<u>SAFETY MEETINGS:</u>
	1: PNEUMATIC TOOLS SAFETY
	2: The proper USE Portable ventilators
	<u>Safety Topics</u>
	Over head Safety, pinch point
	Rotating Equipment, Loader
	Safety, high pressure lines

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to dredge w/12 1/4 bit from 3234 bbl to 3246 bbl
replace Rubber on rotating paw. Scrub floor clean
rig and hand rails. Swap & map mcs and engine talk.
pick up all trash throughout location. repair section
of the silt fence throughout location.

Installer's Signature
LCC D581 082209

10/23/11

Client's Signature

PAYROLL

Date _____

Supervisor's Signature _____

DEAC



-12-

124

• **Дад**

Project: Florida Power & Light Company
Miami-Dade County, Florida
Exploratory Well EW-1

MHC

ASRS inc.

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	

ft. btoc: feet below top of casing

TOC: Top of Casing

ft. NAVD 88: North American Vertical Datum of 1988


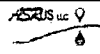
umhos/cm: micromhos per centimeter

mg/L: milligrams per liter

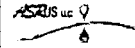
C: Celsius

*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence 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		<div>MHC</div> <div>ASDUS ac 9</div>				
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	-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	
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				
EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-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	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	

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:

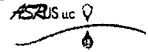
milligrams per liter

C:

Celsius

Note: TOC elevation is:

8.88 feet NAVD 88

<div> <div>MHC</div> <div> Florida Power & Light Company Turkey Point Exploratory Well EW-1 Lithologic Description </div> <div>  </div> </div>			
Date	Depth (ft. bpl)		Observer's Description
	From	To	
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 below pad level			

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	
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
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
feet bpl = feet below pad level				

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



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.

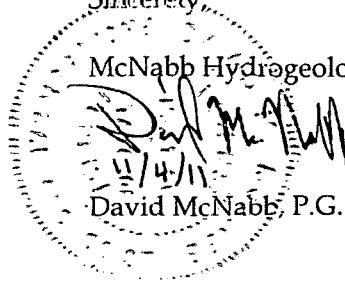
During the next reporting period, it is anticipated that the drilling contractor will complete pilot hole drilling to a depth of 3,500 feet bpl, perform geophysical logging of the pilot hole and begin packer testing of the pilot hole unless dredging of the pilot hole continues.

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.

A circular notary seal for David McNabb, P.G., is stamped over the signature. The seal contains the text "DAVID MCNABB, P.G." around the perimeter and the date "11/4/11" in the center. The signature "David McNabb" is written in black ink over the seal.

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

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



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: October 27, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,252 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Partly Cloudy and Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,244 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

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.

0930 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.

1200 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.

1400 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at a depth of 3,248 feet bpl.

1600 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.

1850 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.

0215 The drilling contractor is dredging the pilot hole between the depths of 3,239 feet and 3,252 feet bpl.

0445 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.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: October 28, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,244 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Some Rain and Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,211 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0930 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.
- 1630 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.
- 2010 The drilling contractor continues dredging the pilot hole. The pilot hole has filled in to a depth of 3,211 feet bpl.
- 0030 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.
- 0400 The drilling contractor is currently having trouble with the drill bit becoming plugged off and is trying to regain air line pressure.
- 0500 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.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

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 1/4-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

- 0700 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.
- 0150 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.



McNabb Hydrogeologic Consulting, Inc.





McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: October 30, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,215 feet bpl
Weather Day: Ptlly Cloudy and Warm
Weather Night: Cloudy and Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,217 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0030 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,217 feet bpl.
- 0255 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,218 feet bpl.
- 0520 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.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

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 1/4-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

CONSTRUCTION ACTIVITIES

- 0700 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.
- 0930 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.
- 0125 The drilling contractor continues dredging the pilot hole. The pilot hole is at a depth of 3,215 feet bpl.
- 0330 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.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: November 1, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,220 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Windy, Cool, Light Rain
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,213 feet bpl
Recorded By: Deborah Daigle/Sally Durall

CONSTRUCTION ACTIVITIES

0700 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.

1000 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,218 feet bpl.

1220 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,220 feet bpl.

1300 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.

1935 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.

0235 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,219 feet bpl.

0520 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.



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: November 2, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,213 feet bpl
Weather Day: Partly Cloudy and Windy
Weather Night: Clear, Windy and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,222 feet bpl
Recorded By: Marty Clasen/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 1000 The drilling contractor continues dredging the pilot hole. The pilot hole is filling in at a depth of 3,226 feet bpl.
- 1240 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.
- 1450 The drilling contractor is dredging the pilot hole between the depths of 3,222 feet bpl to 3,224 feet bpl.
- 1640 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.
- 1900 The drilling contractor continues dredging the pilot hole. The pilot hole is currently filling in at 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.
- 0430 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.

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT **FPL**

Proposed Turkey Point Units 6 and 7

DATE 10-27-11

FOR # 11771

JOBSITE NAME **EWI**

Docket Nos. 52-040 and 52-041

THURS DAYS

JOBSITE LOCATION *T.P.*

L-2011-503 Enclosure 2 Page 12 of 31

PERSONNEL EMPLOYED TODAY

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRIVER	Danny Keeley	X	12		12
IMP	Michelle Ramirez	X	12		12
BP	Bob Feetham	X	12	R/K	12
R/K	Igor Popov	X	12		12

Description	Unit #	Status
Working	-WK-	Mobilization
Standby	S3	Demobilization
Down In Shop	D5	Available In Yard
Down on Site	--DN	Available on Job

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Single Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0003	Training - Overhead	
6	0004	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		TOTAL HOURS	

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM

Quantity	Description
#1	SAFETY MEETING- Back Injury Prevention
#2	EMPLOYEE SAFETY RESPONSIBILITIES PPC - LADDER SAFETY - WELDING SAFETY - TRIP HAZARD HFG-A PROGRESS HOLE ELLIS 7:30 - 5:46

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE DREDGING 12K" BIT FROM
3259' BPL T 3264' BPL HOLE CAME IN TO
3244' BPL RESUME DREDGE 3244' BPL
TO 3252' BPL HELP WELDER - PRG FOR WELDER

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F. D. Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

JOB SITE NAME

L-2011-503 Enclosure 2 Page 15 of 31

DATE _____

10-28-2011

JOB #

11221

JOB SITE LOCATION

T.P

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	GEORGE HAGA	X	12		12
B.C	BOSIA CHUMOV	X	12		12
VI	VLAD ISHIMOV	X	12		12
JL	JOAN LOPEZ	X	12		12
B.C	BILLY CRAWFORD	X	12		12

MATERIALS AND METHODS

Quantity	Description
	1ST SAFETY MEETING
	FIRST AID SAFETY
	2ND SAFETY MEETING
	FIRE EXTINGUISHER SAFETY
	Lightning break 10 - 11pm
	Safety Topics
	PPE, over head safety, Rotating Equipment
	high pressure lines, Loader Safety

Comments, Praise, Complaints, Changes, Other Information

Continue to dredge w/ 12 1/4 bit From 3211 bpl to 3232 bpl. Plug off Sarge air compression and water Sarge pipe. Numerous times cannot regain Air pressure loader & track hoe training. Had 1 hour lightening break.

10/28/11

Client's Signature

PAYROLL

Case

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MB
Standby	30	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

TIME OF ACTIVITY BY MONTH.

[illegible]

DAILY ACCOUNTING OF ACTIVITIES BY ITEM N

Item#	Cost Code	Job Description	Hours
1	10000	Short Duration Job	
2	11000	Clearance / Maintenance	
3	12000	Job Preparation	
4	13000	Initial Meeting	
5	0000	Training - Classroom	
6	0000	Shop - Overhead	
7	0000	Site Research - Overhead	
8	13000	Trimming - Jack Chapsable	
9	13000	Trim Chapsable	
10	11000	Initial Survey - Work	
11	13000	Initial Site Visit	
12	13000	Initial Site Visit - Clearing	
13	13000	Initial Survey & Soil Test	
14	13000	Test Hole Drilling	
15	13000	Geophysical Logging & Other Testing	
16	13000	Aggr. Soil Testing	
17	13000	Remedial Action - Clearing	
18	13000	Remedial Action - Clearing	
19	13000	Remedial Action - Clearing	
20	13000	Remedial Action - Clearing	
21	13000	Geophysical Logging & Other Testing	
22	13000	Aggr. Soil Testing	
23	13000	Remedial Action - Clearing / Control Plant	
24	13000	Remedial Action - Clearing	
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15. *Journal of the American Medical Association*, 273:1225-1226 (1995).

De

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT**CLIENT**

EPZ

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041

DATE _____

10-29-11
SAT. OHTS

103.5

11771

JOHNSON NAME:

EWI

L-2011-503 Enclosure 2 Page 16 of 31

ON-SITE LOCATION

T-12

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
WILSON	Danny Keeley	X	12		12
MR	MICHAEL RANIERI	X	12		12
RKF	BOB FEET HAN	X	12		12
IP	IGOR POPOV	X	12		12
JB	Josh Brown	X	16		16

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MS
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN I'	Available on Job	AJ

DAILY ACCOUNTING OF ACTIVITIES BY ITEM A

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	2nd & 3rd Mob/Demob	
3	11350	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0005	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Changeable	
9	13300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decan Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13200	Install Conductor Pipe	
20	13150	Drill Bear Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Office Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
#1	SAFELY MULTIPLY 3 POINT CONTACT
#2	DRIVING HOME SAFELY
	PAC - HARNESSES - TRIPPO
	PINCH POINTS

TIME OF ACTIVITY BY ITEM #

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

ATTEMPT TO UN PLUG THE DRILL PIPE
TOO WET
KILL WELL 3 BAGS SALT
TIN WITH 12 40' BFT

Date _____



FPZ

Docket Nos. 52-040 and 52-041

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DATE _____

10/30/11

Sunday Night Day

JOB

1177

JOB SITE LOCATION

Turkey Point

RESEARCHER EMPLOYED TO DATE

EQUIPMENT DEPLOYED TODAY

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

MATERIALS USED TODAY

TIME OF ACTIVITY BY ITEM #COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to dredge from 3211 bpl to 3228 bpl. pickup
to tool joint let circulate for 1 hour to get
level right in pits. repair 50 ft of silt fence. Sweep's map
MCC's & ENGR trailers.

Willie May's Daughter

10/2/4

10/21



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPLProposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 2 Page 20 of 31DATE 10/31/11JOB # 11771JOBSITE NAME EW1JOBSITE LOCATION Turkey Point

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	X	12		12
JX	James Paywe	X	12		12
AP	Andrey Popov	X	12		12
JA	James McDowell	X	12		12

EQUIPMENT DEPLOYED TODAY

Description	Unit #	Status
Working	WE	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job

DAILY ACCOUNTING OF ACTIVITIES BY ITEM

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0006	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Worhole Abandonment	
18	13000	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Worhole Abandonment / Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19990	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	1st Safety meeting: Foot Protection
	2nd Safety Meeting: PPE AND Overview
	Lightning Break 1pm 2pm.
	⑤ Dump trucks
	Safety Topics
	Steel toe boots, PPE, Electrical Line
	Safety, overhead safety, high pressure line

TIME OF ACTIVITY BY ITEM

From	To	Grade One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to dredge w/12 1/4 bit from 3211 bpl to 3219 bpl.
Clean EWqr tub, mcs, straighten pants house.
Color code all electrical cords on location check
for serviceability. Went through and checked all five ext.
on location for correct charges.

Installer's Signature

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date



EVENT

F.P. 6
Sw-1

Proposed Turkey Point Units 6 and 7
~~Docket Nos. 52-040 and 52-041~~
L-2011-503 Enclosure 2 Page 21 of 31

DATE _____

10-31-11

main. NIGHT

地址：

4177

MINUTE EDUCATION

F. D.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem ? (X)	Onsite Hours	Offsite Hours	Total Hours
Miller	BOSI + GULAMOV	X	12		12
VI	VYAD TSHIMOV	X	12		12
JL	TOAN LOPEZ	X	12		12
BC	BILLY CRAWFORD	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MB
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

DAILY ACCOUNTING OF ACTIVITIES BY ITEM N

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Drive Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Pumpish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Headline	Description
	SAFETY MTE!
①	P.P.E - AN OVERVIEW!
②	H.I.R.A
	HAND SAFETY: PINCH POINT; HIGH PRESS URES! LOADER SAFETY!

TIME OF ACTIVITY BY ITEM

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Drill: 12" Bit: From/ 3212' BPL TO - 3219' BPL DREDGING
~~LOST~~ LOST 10' START OVER FROM/ 3212' BPL TO -
 3220' BPL

[Signature]


10-31-11


Chemical synthesis

KBeC



Supervisor's Signature

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

Project:		Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1						<div>MHC</div> <div>ASRS inc. </div>	
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		
<div>ft. btoc: feet below top of casing</div> <div>TOC: Top of Casing</div> <div>ft. NAVD 88: North American Vertical Datum of 1988</div> <div>umhos/cm: micromhos per centimeter</div> <div>mg/L: milligrams per liter</div> <div>C: Celsius</div> <div>*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence have been implemented.</div> <div>Note: TOC elevation is: 8.88 feet NAVD 88</div>									

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)											
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				
10/27/2011	1218	8.81	-0.22	82,400	28,000	56,500	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 Note: TOC elevation is: 8.59 feet NAVD 88											

[illegible]

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 (ft. 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	-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 bpl)	Kill Used	Approximate Volume (gallons)	Approximate 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
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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



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



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Daily Construction Log

Date: November 3, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,222 feet bpl
Weather Day: Sunny, Clear and Windy
Weather Night: Clear and Warm
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,220 feet bpl
Recorded By: Marty Clasen/Sally Durall

CONSTRUCTION ACTIVITIES

- 0700 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.
- 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 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.
- 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.



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Daily Construction Log

Date: November 4, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 3,220 feet bpl

Weather Day: Sunny and Clear

Weather Night: Clear and Warm

Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 3,227 feet bpl

Recorded By: Marty Clasen/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 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.



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- 2045 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.
- 0220 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.
- 0330 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.
- 0600 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.



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Daily Construction Log

Date: November 5, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,227 feet bpl
Weather Day: Cool, sunny and clear
Weather Night: Trace Rain and mild
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,223 feet bpl
Recorded By: Marty Clasen/Eric Meyer

CONSTRUCTION ACTIVITIES

- 0700 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.
- 1430 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.
- 1905 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.



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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 feet bpl.
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.



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Daily Construction Log

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 1/4-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

- 0700 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.
- 0930 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.



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- 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.
- 0100 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.
- 0230 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.
- 0255 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.
- 0445 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.
- 0530 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.
- 0630 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.



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Daily Construction Log

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	Ending Depth: 3,223 feet bpl
Weather Day: Cool, cloudy, windy	Recorded By: Marty Clasen
Weather Night: N/A	
Activity: Pilot Hole Drilling	

CONSTRUCTION ACTIVITIES

- 0700 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 ¼-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.



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Daily Construction Log

Date: November 8, 2011

Project: FPL Turkey Point EW

Contractor: Layne Christensen Company

Starting Depth: 3,223 feet bpl

Weather Day: N/A

Weather Night: N/A

Activity: No Construction Activities

FDEP UIC Permit #: 0293962-001-UC

Well No.: EW-1

Bit Diameter: 12 1/4-inch

Ending Depth: 3,223 feet bpl

Recorded By: Sally Durall

CONSTRUCTION ACTIVITIES

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



McNabb Hydrogeologic Consulting, Inc.



Daily Construction Log

Date: November 9, 2011
Project: FPL Turkey Point EW
Contractor: Layne Christensen Company
Starting Depth: 3,223 feet bpl
Weather Day: Partly Cloudy and Warm
Weather Night: Clear and Cool
Activity: Pilot Hole Drilling

FDEP UIC Permit #: 0293962-001-UC
Well No.: EW-1
Bit Diameter: 12 1/4-inch
Ending Depth: 3,231 feet bpl
Recorded By: Sally Durall/Deborah Daigle

CONSTRUCTION ACTIVITIES

- 0700 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.
- 1100 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.
- 1415 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.
- 0330 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.
- 0530 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.



LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT FPL
JOBSITE NAME EWI
Proposed Turkey Point Units 6 and 7
Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 3 Page 14 of 31

DATE 11-3-11
Thurs day shift
EQUIPMENT EMPLOYED TODAY

WELL # 11271
ALIBITE LOCATION Turkey Point
DAILY ACCOUNTING OF ACTIVITIES BY ITEM #

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
Driller	George Haga	X	12		12
SD	James Payne	X	12		12
AP	Andrew Popov	X	12		12
SM	Jim McDowell	X	12		12
BG	Bosht Gullmor	X	4		4

Description	Unit #	Status
Working	WK	Mobilization MB
Standby	SB	Demobilization DM
Down in Shop	DS	Available in Yard AY
Down on Site	DN	Available on Job AV

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Wte Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Wohole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Wohole Abandonment/ Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

Quantity	Description
	1 st Safety meeting: Bringing chemicals to jobsite w/out MSDS
	2 nd Safety meeting: Trip hazards on rig.
	Safety topics
	PPE, Hand signal safety, high pressure lines, overhead safety, fall protection

From	To	Circle One	Item #
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	
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		AM PM	
		AM PM	
		AM PM	
		AM PM	
		AM PM	

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

Continue to dredge from 3220 bpl to 3225 bpl
Straighten up welding area. Organize and straighten
EW, pallets in laydown area. covered and aligned.
Scrub floor, and clean and organize engine file.

[Signature] 11-3-11
Date

Client's Signature

PAYROLL

Date

Supervisor's Signature

Date

1768

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT



DATE _____

11-5-2011
Sat. Nights

JDR

JOB # 11771
JOBSITE LOCATION Turkey Point

• <http://www.fishbase.org>

Description	Unit #	Status
Working	WK	Mobilization
Standby	SB	Demobilization
Down in Shop	DS	Available in Yard
Down on Site	DN	Available on Job
		AV

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11190	Job Preparation	
4	11200	Safety Meeting	
5	0005	Traveling - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Traveling - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drift Pad	
14	11550	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack the Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Furnish & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Office Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Waiting for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

CONTINUE PROGRESS FROM 3218' BPL TO 3223'

CLEAN PRESSURE WASH RIG
CLEAN OUT INSIDE OF LOBBY/DUMP TRUCK/ROCK

Installer's Signature _____
CC D5010B2709

Client's Signature

PAYROLL

Supervisor's Signature _____

History

5

目錄

LAYNE CHRISTENSEN COMPANY - DRILLING SHIFT REPORT

CLIENT

F.P.L.

Proposed Turkey Point Units 6 and 7

Docket Nos. 52-040 and 52-041.

L-2011-503 Enclosure 3 Page 22 of 31

DATE _____

11-07-2011

MON, DAYS

JOB #

1177

JOB SITE NAME

۱- ۳۵

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
DRILLER	BOSIT GULEMOV	X	10		10
VI	VIAD ISHIMOV	X	10		10
PL	JOAN LOPEZ	X	10		10
BC	BILLY CRAWFORD	X	10		10

EQUIPMENT DEPLOYED TODAY

[illegible]

DAILY ACTIVITIES OF ACTIVITIES BY PERSON

Item #	Cost Code #	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Onsite Mob/Demob	
3	11130	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Drill Pad	
14	12050	Pest Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Dry Plot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Flush & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Isolation and Circulation	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Charize Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	99100	Job Superintendent Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
	SAFETY MTG.
①	H.I.R.A
②	P.P.E.
	HAND SAFETY: PINCH POINT: EYE PROTECTION
	FALL PROTECTION: ELECTRICAL SAFETY
	LADDER AND STAIRWAY SAFETY:

TIME OF ACTIVITY BY ITEM #

[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

T.O.H 12 1/2 BIT T.J.H. 2 COLLAR + 2 DRILL PIPE
CHANGED RUBBER: TOOK OFF 12 1/2 BIT
KILL WELL 3 BAGS SALT ~~R~~

11-07-11

Plate Region

PAYROLL

Dependence Diagrams

10

Layne Christensen Company - Drilling Shift Report

CLIENT **FPL**

Proposed Turkey Point Units 6 and 7

DATE _____

JOB #

JOBSITE NAME EW-1

Docket Nos. 52-040 and 52-041
L-2011-503 Enclosure 3 Page 23 of 31

Wedn. Days

JOBSITE LOCATION: Tucker, Ga.

PERSONNEL EMPLOYED TODAY

Crew Assignment	Employee - Full Name	Per Diem? (X)	Onsite Hours	Offsite Hours	Total Hours
VEHICLE	Dannu Keeley	X	12		12
VI	Mac Ishimoto	X	11		11
IP	Igor Popov	X	12		12

EQUIPMENT DEPLOYED TODAY

Description		Unit #	Status
Working	WK	Mobilization	MB
Standby	SB	Demobilization	DM
Down in Shop	DS	Available in Yard	AY
Down on Site	DN	Available on Job	AV

ONLY A COUNTRY OF STATES IS NEW

Item #	Cost Code	Labor Activity	Hours
1	10000	Short Duration Job	
2	11100	Inside Mob/Demob	
3	11150	Job Preparation	
4	11200	Safety Meeting	
5	0005	Training - Overhead	
6	0006	Shop - Overhead	
7	0007	Maintenance - Overhead	
8	11250	Training - Job Chargeable	
9	11300	Site Clean up	
10	11350	Install Sound Walls	
11	11400	Install Decon Pad	
12	11450	Install Surface Casing	
13	11500	Install Roadway & Deck Pad	
14	12050	Test Hole Drilling	
15	12100	Geophysical Logging & Other Testing	
16	12150	Aquifer Zone Testing	
17	12200	Borehole Abandonment	
18	13050	Production Well Installation	
19	13100	Install Conductor Pipe	
20	13150	Drill Pilot Hole	
21	13200	Geophysical Logging & Other Testing	
22	13250	Aquifer Zone Testing	
23	13300	Borehole Abandonment/Cement Plugs	
24	13350	Reaming	
25	13400	Under Reaming	
26	13450	Install Casing	
27	13500	Install Screen	
28	13550	Gravel Pack The Well	
29	13600	Install Annular Seal	
30	13650	Water Watching	
31	14050	Well Development Air Lift and Swab	
32	14100	Disposal of Fluids & Cuttings	
33	14150	Turn On & Install Test Pump and Discharge	
34	14200	Development Pumping	
35	14250	Test Pumping	
36	14300	Disinfection and Chlorination	
37	19050	Offsite Activities Mob/Demob	
38	19100	Shop	
39	19150	Administration	
40	19550	Other Activities Standby	
41	19600	Fishing for Lost/Broken Tooling	
42	19650	Change Order Activities	
43	88000	Equipment Repairs	
44	90170	Damages	
45	90200	Job Superintendent	
		Lunch	
		TOTAL HOURS	

MATERIALS USED TODAY

Quantity	Description
#1	SAFETY MEETING HAND SAFETY
#2	NO AEROSOL CANS IN LOCATION PPE - GLOVES - GOGGLES - THERMALZAPS - PUNCH POKERS - TIE -

TIME OF ACTIVITY BY ITEM IN


[illegible]

COMMENTS - EVENTS - CONDITIONS - CHANGES - OTHER INFORMATION

TI H WITH 12 1/4" BIT
TAG @ 3224' BPL
DREGG 3224' BPL TO 3232' BPL

PAYROLL

Supervisor's Signature _____

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)								
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	
11/3/2011	1049	8.91	-0.03	80,200	31,100	55,700	29.9	
<div>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</div> <div>*Results appear to be anomalous and are suspected to be related to a sampling error. Countermeasures to prevent reoccurrence have been implemented. Note: TOC elevation is: 8.88 feet NAVD 88</div>								

Project:		Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1						<div>MHC</div> <div>ASRS LLC</div>	
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		
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						<div>MHC</div> <div>ASAC inc</div>	
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	-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		
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		
<div>ft. btoc: feet below top of casing</div> <div>TOC: Top of Casing</div> <div>ft. NAVD 88: North American Vertical Datum of 1988</div> <div>umhos/cm: micromhos per centimeter</div> <div>mg/L: milligrams per liter</div> <div>C: Celsius</div> <div>Note: TOC elevation is: 8.84 feet NAVD 88</div>									

Project:		Florida Power & Light Company Miami-Dade County, Florida Exploratory Well EW-1						<div>MHC</div> <div>ASIS inc.</div>	
EW-1 Pad Monitoring Well Water Quality Data Southwest Pad Monitoring Well (SW-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	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		
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		
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 Volume (gallons)	Approximate 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
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**

Sample Date	Depth (ft bpl)	Conductivity (umhos/cm)	Total Dissolved Solids (mg/L)	Chlorides (mg/L)	Ammonia (mg/L)	Total Kjeldahl Nitrogen (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.