



Florida Department of
Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

December 30, 2010

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Mimi A. Drew
Secretary

Thomas L. Hernandez
Vice President of Energy Supply
Tampa Electric Company
702 North Franklin Street
Tampa, Florida 33601-0111
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FDEP File No. 0281232
Class V, Group 9, Exploratory Well
TECO Polk Power Station
Polk County

**NOTICE OF PERMIT MODIFICATION FOR
PERMIT NO. 0281232-001-UC**

Enclosed is Permit No. 0281232-003-UC/M5, to modify one Class V, Group 9, Exploratory Well, issued pursuant to Section 403.087(1), Florida Statutes. Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**

**UNDERGROUND INJECTION
CONTROL PROGRAM**

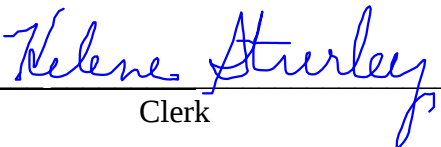
for 
Jeffry S. Greenwell, P.E.
Water Facilities Administrator
Southwest District

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this Notice of Permit Modification and all copies were mailed before the close of business on December 30, 2010 to the persons listed below.

FILING AND ACKNOWLEDGMENT

FILED on this date, pursuant to § 120.52(11), Florida Statutes, with the designated Department clerk, receipt of which is hereby acknowledged.


Clerk

12-30-10
Date

Copies Furnished To:

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MODIFICATION OF CONDITIONS PERMIT NO. 0281232-003-UC/M5

Per the request of Tampa Electric Company, Polk Power Station, the Department is modifying the content of Permit No. 0281232-001-UC to include the construction of a dual zone monitoring well as specified below:

MODIFIED:

Page 1, Paragraphs 2 and 3.

TO CONSTRUCT: One Class V, Group 9, Exploratory Well (IW-1) in order to obtain hydrologic and geologic information to determine the feasibility of a Class I industrial injection well for disposal of non-hazardous grey wastewater and cooling tower blowdown water into the Lower Lawson Limestone Formation, approximately 5,000 feet below land surface (bls). The well will be constructed with a 52-inch diameter surface casing to ± 300 feet bls; a 42-inch diameter steel casing to ± 1200 feet bls; a 28-inch diameter steel intermediate casing to $\pm 3,400$ feet bls; a 18-inch diameter steel casing to $\pm 4,400$ feet bls; an open hole to $\pm 5,800$ feet bls; and 9.94 inch diameter fiberglass reinforced tubing to $\pm 4,400$ feet bls with packer and cement filled annulus. **The construction of one dual zone monitoring well (DZMW-1) is also allowed under this permit. The specifications for the construction of DZMW-1 are tabulated in Specific Condition 5.d.**

IN ACCORDANCE WITH: The Application to Construct DEP Form No. 62-528.900(1) submitted by the Tampa Electric Company (TECO) on August 15, 2007, with accompanying supporting documentation and additional information submitted through February 5, 2008; the Application for a Major Modification of Construction Permit DEP Form No. 62-528.900(1) submitted on October 30, 2009, with accompanying supporting documentation and additional information submitted through November 2, 2010, **and the Application for a Major Modification of Construction Permit DEP Form No. 62-528.900(1) submitted on March 19, 2010, with accompanying supporting documentation and additional information submitted through June 8, 2010.**

MODIFIED:

Permit Condition 4.c. and 5.d.

4.c. Department review and approval is required prior to the intermediate and final casing seat selection **for the exploratory well and DZMW-1**. Annotated copies of geophysical logs, lithologic descriptions and logs and water quality data (from drilling and packer tests) must be submitted to the Department in support of the proposed intermediate and final casing seat selection.

5.d. Exploratory Well IW-1 Construction details:

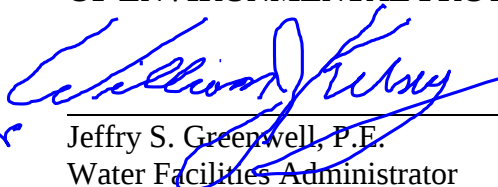
O.D. Inches/Type	Depth ft (bls)	Aquifer
52" / steel	± 300'	Surficial and Upper FL aquifer
42" / steel	± 1,200'	Upper Floridan
28" / steel	± 3,400'	Mid-Confining Layer & Lower Floridan
18" / steel	± 4,400'	Lower Confining Layer & Cedar Keys Formation
9.94" OD/ Fiberglass	± 4,400'	Lower Confining Layer & Cedar Keys Formation
16" open hole	± 5,300'	Lawson Limestone
12.25" open hole	± 5,800'	Taylor Limestone

Dual Zone IW-1 Construction details:

O.D. Inches/Type	Depth ft (bls)	Aquifer
24" / steel	± 300'	Surficial and Upper FL aquifer
16" / steel	± 1,100'-1,200'	Upper Floridan (shallow monitoring zone interval)
6" / FRP	± 3,200'	Mid-Confining Layer & Lower Floridan
6" open hole	± 3,400'	Mid-Confining Layer & Lower Floridan

This document must be attached to your permit and becomes a part of that permit.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**


Jeffrey S. Greenwell, P.E.
Water Facilities Administrator
Southwest District