

APPENDIX I



Florida Department of Environmental Protection

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

STATE OF FLORIDA UNDERGROUND INJECTION CONTROL CLASS V, GROUP 2, RECHARGE WELL CONSTRUCTION PERMIT

PERMITTEE

Marty Drango
Plant Manager
Progress Energy Florida
Hines Energy Complex
7700 County Road 555
Bartow, Florida 33830

PERMIT/CERTIFICATION

Permit No.: 0183519-002-UC
Facility ID No.: FLA187348
Date of Issue: June 23, 2008
Expiration Date: June 22, 2013
County: Polk
Project: IW-1 / Recharge
Well System
Permit Processor: Bill Kelsey, P.G.

FACILITY

Hines Energy Complex
7700 County Road 555
Bartow, Florida 33830

PROJECT LOCATION

Section/Township/Range: Sec. 1 / T31S / R24E
Latitude: 27° 48' 42" N
Longitude: 81° 52' 20" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Rules 62-4 and 62-528 of the Florida Administrative Code. The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application and other documents attached hereto or on file with the Department and made a part hereof specifically described as follows:

TO TEST: One Class V, Group 2, recharge well (IW-1) installed to a total depth of 900 feet below land surface (bls) to obtain information to determine the feasibility of injection into the Upper Floridan aquifer for the purpose of aquifer recharge of surface water from the facility's cooling pond, which includes storm water from on-site retention areas, treated effluent from the City of Bartow, and excess surface water flow surrounding water-cropping areas. The combined surface water will be wetland treated, filtered, and ultraviolet disinfected. Recharge testing is authorized under this permit at a maximum daily recharge volume of 1.1 million gallons per day.

TO CONSTRUCT: Two ground water quality monitor wells: one deep monitor well, OC-1, to monitor from approximately 740 to 760 feet bls; and one shallow monitor well, SW-1, to monitor ground water quality from approximately 380 to 400 feet bls.

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IN ACCORDANCE WITH: The Application to Construct FDEP Form No. 62-528.900(1) submitted on May 22, 2007, with addendum information submitted through December 21, 2007.

SUBJECT TO: Specific Conditions 1-7.

SPECIFIC CONDITIONS:

1. General Requirements

- a. This permit approval is based upon evaluation of the data contained in the application and the plans and specifications submitted in support of this application. Any changes, except as provided elsewhere in this permit, must be approved by the Department before implementation.
- b. Recharge testing is authorized under this permit at a maximum daily recharge volume of 1.1 million gallons per day. Flow to the recharge well shall be continuously monitored and controlled at all times.
- c. Operational testing of this recharge well shall cease with the expiration of this permit unless the permittee has been issued an operation permit or has applied for renewal of the construction permit at least 60 days prior to the expiration of this permit.
- d. The permittee shall notify the Department and obtain approval prior to any physical alterations or additions to the recharge or monitor wells, including removal of the well-head.
- e. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or recharge activity that may result in noncompliance with permit requirements.
- f. No underground recharge is allowed that causes or allows movement of fluid into an underground source of drinking water if such fluid movement may cause a violation of any primary drinking water standard or may otherwise adversely affect the health of persons.
- g. Signatories and Certification Requirements -
 - 1) All reports and other submittals required to comply with this permit shall be signed by a person authorized under Rules 62-528.340(1) or (2), F.A.C.
 - 2) In accordance with Rule 62-528.340(4), F.A.C., all reports shall contain the following certification:

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I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

h. Plugging/Abandonment and Alternate Use Plans -

Permittees who are unable to operate the recharge well to meet its intended purpose shall within 180 days of Department notification:

- 1) Submit a plugging and abandonment permit application in accordance with Rules 62-528.625 and 62-528.645, F.A.C., or
 - 2) Submit an alternate use plan for the well. Well operation may commence after the plan has been approved by the Department, including any necessary permit or permit modifications as required by the Department or any other agency.
- i. The permittee is reminded of the necessity to comply with the pertinent regulations of any other regulatory agency, as well as any county, municipal, and federal regulations applicable to the project. These regulations may include, but are not limited to, those of the Federal Emergency Management Agency in implementing flood control measures. This permit should not be construed to imply compliance with the rules and regulations of other regulatory agencies.
 - j. The permittee shall be aware of and operate under General Conditions, Rules 62-528.307(1)(a) through (x) and 62-528.307(2)(a) through (f), F.A.C. General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

2. Construction and Testing Requirements

- a. Prior to the commencement of any work, the name of the Florida-licensed water well contractor supervising the drilling operations and the water well contractor's registration number shall be submitted to the Department. The permittee or the engineer of record shall provide the Department with copies of all required federal, state or local permits prior to spudding the wells.

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- b. No drilling operations shall begin without an approved disposal site for drill cuttings, fluids or waste. It shall be the water well contractor's responsibility to obtain any necessary Department and local agency approval for disposal prior to the start of construction.
- c. The measurement points for drilling and logging operations shall be surveyed and referenced to the NGVD of 1929, prior to the onset of drilling activities.
- d. A temporary containment structure shall be used for the construction of monitor wells SW-1 and OC-1. The drilling pad wall must have sufficient height and construction to provide containment during drilling and testing activities. If there is not an existing containment structure, the specifications for its construction shall be submitted to and approved by the Department prior to well construction.
- e. Four Surficial aquifer drilling pad monitor wells shall be installed, sampled, and analyzed prior to spudding wells SW-1 and OC-1, and then weekly thereafter, for chloride (mg/L), conductivity (μ mhos/cm), temperature ($^{\circ}$ C), and water levels (NGVD) during construction operations. The four existing pad monitor wells may be used, if they are in sufficient condition to provide representative samples.
- f. If any problem develops that may seriously hinder compliance with this permit, construction progress, or good construction practice, the Department shall be notified immediately. The Department may require a detailed written report describing what problems have occurred, the remedial measures applied to assure compliance, and the measures taken to prevent recurrence of the problem.
- g. If historical or archaeological artifacts, such as Indian canoes, are discovered at any time within the project site, the permittee shall notify the Department's Southwest District Office and the Bureau of Historic Preservation, Division of Historical Resources, 500 South Bronough Street, Tallahassee, Florida 32399-0250, telephone number (850) 487-2333.

3. Quality Assurance/Quality Control Requirements

- a. The permittee shall ensure that the construction of this facility shall be as described in the application and supporting documents. Any proposed modifications to this permit shall be submitted in writing to the Underground Injection Control program manager for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate, and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee pursuant to Rule 62-4.050, F.A.C.

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- b. A Florida registered professional engineer, pursuant to Chapter 471, Florida Statutes, shall be retained throughout the construction period and operational testing to be responsible for the construction operation and to certify the application, specifications and completion report and other related documents, pursuant to Rule 62-528.440(5), F.A.C. A professional engineer or professional geologist shall provide monitoring of the drilling and testing operations. The Department shall be notified immediately of any change of the Engineer of Record.
- c. All water quality samples required in this permit shall be collected and analyzed in accordance with Department Standard Operating Procedures (SOP), pursuant to the FDEP Quality Assurance, Chapter 62-160, F.A.C. The various components of the collection of the FDEP SOPs are found in DEP-SOP-001/01 (Field Procedures) and DEP-SOP-002/01 (Laboratory Procedures).
- d. The permittee shall calibrate all pressure gauge(s), flow meter(s), chart recorder(s), and other related equipment associated with the recharge well system on a semi-annual basis. The permittee shall maintain all monitoring equipment and shall ensure that the monitoring equipment is calibrated and in proper operating condition at all times. Laboratory equipment, methods, and quality control will follow EPA guidelines as expressed in Standard Methods for the Examination of Water and Wastewater. The pressure gauge(s), flow meter(s), and chart recorder(s) shall be calibrated using standard engineering methods.
- e. Continuous on-site supervision by qualified personnel (engineer and/or geologist, as appropriate) is required during all testing and geophysical logging operations.
- f. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit.
- g. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.
- h. Hurricane Preparedness -

Upon the issuance of a "Hurricane Watch" by the National Weather Service, the preparations to be made include, but are not necessarily limited to, the following:

- 1) Secure all on-site salt and other stockpiled additive materials to prevent surface and/or ground water contamination.
- 2) Properly secure drilling equipment and rig(s) to prevent damage to well(s) and on-site treatment process equipment.

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4. Reporting Requirements

- a. The permittee shall provide copies of all correspondence relative to this permit to each member of the TAC. Such correspondence includes but is not limited to reports, schedules, analyses, and geophysical logs required by the Department under the terms of this permit. The permittee is not required to provide specific correspondence to any TAC member who submits to the permittee a written request to be omitted as a recipient of specific correspondence. The TAC consists of representatives from the following agencies, with assistance from the EPA:

Florida Department of Environmental Protection
Underground Injection Control Program
Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

Florida Department of Environmental Protection
Underground Injection Control Program
Division of Water Resources
2600 Blair Stone Road, MS 3530
Tallahassee, Florida 32399-2400

Southwest Florida Water Management District
Well Construction Permitting
2379 Broad Street
Brooksville, Florida 34609-6899

The Department will not accept unclear copies of geophysical logs or video television surveys.

- b. During the construction period allowed by this permit, daily progress reports shall be submitted to the Department and the Technical Advisory Committee each week. The reporting period shall run for seven (7) days and reports shall be mailed or e-mailed within 48 hours of the last day of the reporting period. The report shall include, but is not limited to, the following:
 - 1) A cover letter summarizing each week's activities and a projection of activities for the next reporting period;
 - 2) Description of daily footage drilled by diameter of bit or size of hole opener or reamer being used;
 - 3) Description of work during installation and cementing of casing, including amounts of casing and cement used;

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- 4) Lithologic log with cuttings description, formation, and depth encountered;
 - 5) Collection of drilling cuttings at least every 10 feet and at every formation change, with five-foot sampling starting 100 feet above and continuing through the recharge zone;
 - 6) Water quality analyses during well construction;
 - 7) Description of work and type of testing accomplished including geophysical logging, video logs and pumping tests;
 - 8) Description of any construction problems that developed during the reporting period and current status;
 - 9) Copies of the driller's log are to be submitted with the weekly summary;
 - 10) Description of any deviation survey conducted;
 - 11) Details of any packer tests, pump tests, and core analyses; and
 - 12) Details of the additions of salt or other materials to suppress well flow, including the date, depth, and amount of material used.
- c. Within 30 days of monitor well completion, the permittee shall submit to the Department the following information:
- 1) A copy of the Southwest Florida Water Management District (SWFWMD) Application to Construct, Repair, Modify or Abandon Well (Form SF 306(3) rev. 9/92); and
 - 2) A copy of the SWFWMD Well Completion Form (Form 41.10- 410(2) rev. 4/95).
- d. A two-gallon, unacidized representative sample and a 100 ml nitric acid-preserved sample for metals analyses of native water from the monitor well zones shall be collected and provided to the Hydrogeology Program at the Florida Geological Survey, 903 West Tennessee Street, Tallahassee, Florida 32304.
- e. The permittee shall submit monthly to the Department the results of all recharge well and monitor well data required by this permit no later than the last day of the month immediately following the end of the sampling period. The results shall be sent to the Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. A copy of this report shall also be sent to the Department of Environmental Protection, Underground Injection Control Program, MS 3530, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

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The water quality and operational data may also be submitted in digital (*i.e.*, electronic) format -- *via* direct internet electronic mail (e-mail); CD or DVD. The file format to be utilized should be Excel™ or Adobe™. Data files shall be electronically mailed -- *via* internet -- simultaneously to the Southwest District (SWD_UIC@dep.state.fl.us) and to Underground Injection Control Personnel in Tallahassee (joe.haberfeld@dep.state.fl.us). Notwithstanding the foregoing, the certification and signatory pages and laboratory data sheets shall be mailed to the Department pursuant to the previous paragraph.

- f. The permittee shall report any noncompliance which may endanger health or the environment, including:
- 1) Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
 - 2) Any noncompliance with a permit condition or malfunction of the recharge system which may cause fluid migration into or between underground sources of drinking water.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

- g. After completion of construction and testing, a final engineering report shall be submitted to the Department, and each TAC member, with a cover letter only sent to the EPA (see below). The report shall include, but not be limited to, all information and data collected under Sections 62-528.605, 62-528.615, and 62-528.635, F.A.C., with appropriate interpretations. Mill certificates for the casings shall be included in the report. To the extent possible, the transmissivity of the recharge zone and the maximum injection capacity within safe pressure limits shall be estimated.

U. S. Environmental Protection Agency - Region 4
Underground Injection Control Section
Ground Water & Drinking Water Branch
Water Management Division
61 Forysth Street, S.W.
Atlanta, Georgia 30303-8960

- h. After completion of construction and testing, the following items shall be submitted to the State Geologist at the Florida Geological Survey, 903 West Tennessee Street, Tallahassee, Florida 32304-7707:

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- 1) Cuttings obtained during well construction;
- 2) Any cores obtained during well construction when no longer needed by the permittee;
- 3) Any geophysical logs run during well construction; and
- 4) A copy of the final engineering report described in Condition 4.h. above.

5. Operational Testing Conditions

- a. The permittee shall conduct operational testing of the recharge well system to demonstrate that the well can maintain water quality standards and assimilate the design daily flows prior to granting approval for full operation. Before authorizing operational testing, the Department shall conduct an inspection of the facility to determine if the conditions of the permit have been met. Pursuant to Specific Condition 5.c. below, no fluid shall be injected without written authorization from the Department. The issuance of this construction permit does not obligate the Department to permit its operation, unless the well monitoring system and surface appurtenances qualify for an operation permit.
- b. A qualified representative of the engineer of record must be present for the start-up operations and the Department must be notified in writing of the date operational testing began for the subject well.
- c. Prior to operational testing the permittee shall submit the following information to each member of the TAC for review:
 - 1) Draft operation and maintenance manual;
 - 2) Lithologic and geophysical logs with interpretations;
 - 3) Background water quality results from monitor wells SW-1 and OC-1 for primary and secondary standards (Chapter 62-550.310 and 62-550.320, F.A.C.), excluding asbestos, dioxin, acrylamide, and epichlorohydrin. The analysis shall also include dissolved oxygen;
 - 4) Aquifer test data, analysis and evaluation;
 - 5) Surface equipment completion certification or certification of interim completion for the purposes of testing;
 - 6) Signed and sealed as-built engineering drawings of all subsurface equipment; and
 - 7) Submittal of a plugging and abandonment plan.

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d. Class V, Test Recharge Well IW-1

Casing Material	Outside Diameter	Inside Diameter	Wall Thickness	Depth Feet bbs
Steel	20"	19.25"	0.375"	64'
Steel	14"	13.25"	0.375"	315'
Steel	8.625"	8.00"	0.322"	614'
Open Hole				614 - 900'

The test recharge well shall be monitored in accordance with Rule 62-528.615, F.A.C. The injection pressure and flow data shall be continuously recorded and reported from the recharge well instrumentation in the Monthly Operating Report as indicated below. Samples and measurements shall be taken at the wellhead.

Parameters

Frequency

Injection Pressure (psi)

Maximum Injection Pressure	Daily/Monthly
Minimum Injection Pressure	Daily/Monthly
Average Injection Pressure	Daily/Monthly

Flow Rate (gpm)

Maximum Flow Rate	Daily/Monthly
Minimum Flow Rate	Daily/Monthly
Average Flow Rate	Daily/Monthly

Total Volume Injected (mgd/mg)

Daily/Monthly

Water Quality¹

Total Coliform (cts/100ml)	Weekly
Fecal Coliform (cts/100ml)	Weekly
Ammonia (as N) (mg/L)	Weekly
Arsenic (ug/L) ²	Weekly
Chloride (mg/L)	Weekly
Color (PCU)	Weekly
Odor (TON)	Weekly
Specific Conductivity (μ mhos/cm)	Weekly
Temperature (°C)	Weekly
Total Dissolved Solids (mg/L)	Weekly
Total Iron (mg/L)	Weekly
Manganese	Weekly
Dissolved Oxygen (mg/L) ³	Monthly
Nitrate (as N) (mg/L)	Monthly
Nitrite (as N) (mg/L)	Monthly

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pH (std. units)	Monthly
Sodium (mg/L)	Monthly
Sulfate (mg/L)	Monthly
Total Alkalinity (mg/L)	Monthly
Total Kjeldahl Nitrogen (mg/L)	Monthly
Total Organic Carbon (mg/L)	Monthly
Gross Alpha (pCi/L) ⁴	Monthly

¹ A reduction in parameters and/or sampling frequency may be requested after a minimum of six consecutive monthly periods of operational testing if the conditions of Rule 62-528.450(3)(d), F.A.C., have been met and with Department approval.

² Arsenic shall be analyzed using a laboratory method with both practical quantitation limit (PQL) and method detection limit (MDL) less than 10 ug/L.

³ No monthly average.

⁴ Monthly for a minimum of six months, thereafter on an annual basis (every February) with written approval from the Department.

- e. On a quarterly basis (every February, May, August, and November), a 24-hour composite sample shall be taken of the waste stream at the recharge well and analyzed for the primary and secondary standards (Chapters 62-550.310 and 62-550.320, F.A.C.), excluding asbestos, dioxin, acrylamide, and epichlorohydrin, but including dissolved oxygen and ammonia. Any standards exceeded in the effluent based on the seasonal sampling will be included in the monthly sampling for a minimum of three months; then evaluated and, if appropriate, dropped from the monthly schedule.

f. Monitoring Well System

Well Name	Casing Diameter	Monitoring Interval bls	Formation
OC-1	4.5"	740 – 760'*	Ocala Limestone
SW-1	4.5"	380 – 400'*	Suwannee Limestone

*Approximate depth, yet to be installed as of date of permit issuance

The monitor wells shall be monitored in accordance with rule 62-528.615, F.A.C. Water level data shall be continuously recorded and reported from the monitor well instrumentation in the Monthly Operating Report as indicated below. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity. A reduction in parameters and/or sampling frequency may be requested after a minimum six months of consecutive monthly periods of operational testing.

Parameters

Frequency

Water Level (NGVD/psi)

Maximum Water Level/Pressure

Daily/Monthly

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Minimum Water Level/Pressure
Average Water Level/Pressure

Daily/Monthly
Daily/Monthly

Water Quality¹

Total Coliform (cts/100ml)	Weekly
Fecal Coliform (cts/100ml)	Weekly
Ammonia (as N) (mg/L)	Weekly
Arsenic (ug/L) ²	Weekly
Chloride (mg/L)	Weekly
Color (PCU)	Weekly
Odor (TON)	Weekly
Specific Conductivity (μ mhos/cm)	Weekly
Temperature (°C)	Weekly
Total Dissolved Solids (mg/L)	Weekly
Total Iron (mg/L)	Weekly
Manganese	Weekly
Dissolved Oxygen (mg/L) ³	Monthly
Nitrate (as N) (mg/L)	Monthly
pH (std. units)	Monthly
Sodium (mg/L)	Monthly
Sulfate (mg/L)	Monthly
Total Alkalinity (mg/L)	Monthly
Total Nitrogen (mg/L)	Monthly
Total Kjeldahl Nitrogen (mg/L)	Monthly
Total Organic Carbon (mg/L)	Monthly
Gross Alpha (pCi/L) ⁴	Monthly

¹ A reduction in parameters and/or sampling frequency may be requested after a minimum of six consecutive monthly periods of operational testing if the conditions of Rule 62-528.450(3)(d), F.A.C., have been met and with Department approval.

² Arsenic shall be analyzed using a laboratory method with both practical quantitation limit (PQL) and method detection limit (MDL) less than 10 ug/L.

³ No monthly average.

⁴ Monthly for a minimum of six months, thereafter on an annual basis (every February) with written approval from the Department.

- g. Prior to commencement of operational testing of the recharge well, the permittee shall obtain from the Department a Water Quality Criteria Exemption for any and all necessary parameters pursuant to Rule 62-520.500, F.A.C.

6. Abnormal Events

- a. In the event the permittee is temporarily unable to comply with any conditions of this permit due to breakdown of equipment, power outages, destruction by hazard of fire, wind or by other cause, the permittee shall notify the Department. Notification shall be

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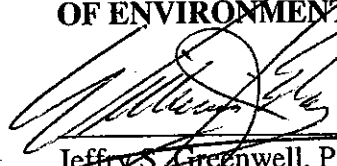
made in person, by telephone or by telegraph within 24 hours of breakdown or malfunction to UIC Program staff, Southwest District Office.

- b. A written report of any noncompliance referenced in Specific Condition 6.a. above shall be submitted to the Southwest District Office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions.

7. Emergency Disposal

- a. All applicable federal, state and local permits shall be in place to allow for any alternative discharges due to emergency or planned outage conditions.
- b. Any changes in emergency disposal methods shall be submitted for TAC review and Department approval.
- c. The permittee shall notify the Department within 24 hours whenever an emergency discharge has occurred. Written notification shall be provided to the Department within five days after each occurrence. The Permittee shall indicate the location and duration of the discharge and the volume of fluid discharged.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION


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

Attachment: Rule 62-528.307, F.A.C.

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62-528.307 Underground Injection Control: General Conditions for Permits.

The following general conditions shall be included in each of the respective types of underground injection control permits.

(1) All UIC Permits.

(a) The terms, conditions, requirements, limitations and restrictions set forth in this permit are "permit conditions" and are binding and enforceable pursuant to Section 403.141, F.S.

(b) This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action.

(c) As provided in Section 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.

(d) This permit conveys no title to land, water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.

(e) This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefrom; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.

(f) The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, or are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.

(g) The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

1. Have access to and copy any records that must be kept under conditions of this permit;
2. Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
3. Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules. Reasonable time will depend on the nature of the concern being investigated.

(h) If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

1. A description of and cause of noncompliance; and
2. The period of noncompliance, including dates and times; or, if not corrected the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent the recurrence of the noncompliance. The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

(i) In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is proscribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

(j) The permittee agrees to comply with changes in Department Rules and Florida Statutes after a reasonable

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(v) The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in paragraph 62-528.410(1)(h), F.A.C.

(w) The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements.

(x) The permittee shall report any noncompliance which may endanger health or the environment including:

1. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or

2. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

62-528.307 Underground Injection Control: General Conditions for Permits.

(3) All UIC Operation Permits.

(a) In accordance with subsection 62-4.090(1) and paragraph 62-528.455(3)(a), F.A.C., the permittee shall submit an application for permit renewal at least 60 days prior to expiration of this permit.

(b) Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures.

(c) The injection system shall be monitored in accordance with paragraph 62-528.425(1)(g) and subsection 62-528.430(2), F.A.C. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(d) The permittee shall submit monthly to the Department the results of all injection well and monitor well data required by this permit no later than the last day of the month immediately following the month of record. The results shall be sent to the Department of Environmental Protection, [Name] District Office, [Address]. A copy of this report shall also be sent to the Department of Environmental Protection, Underground Injection Control Program, MS 3530, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400.

(e) Mechanical Integrity.

1. The permittee shall maintain the mechanical integrity of the well at all times.

2. If the Department determines that the injection well lacks mechanical integrity, written notice shall be given to the permittee.

3. Within 48 hours of receiving written notice that the well lacks mechanical integrity, unless the Department requires immediate cessation of injection, the permittee shall cease injection into the well unless the Department allows continued injection pursuant to subparagraph 4. below.

4. The Department shall allow the permittee to continue operation of a well that lacks mechanical integrity if the permittee has made a satisfactory demonstration that fluid movement into or between underground sources of drinking water is not occurring.

Department of Environmental Protection

Southwest District • 13051 North Telecom Parkway • Temple Terrace, Florida 33637-0926

Underground Injection Control Program

Water Level / Pressure Data - Monitor Wells

Facility Name:	Progress Energy Florida-Hines Energy Complex
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Facility ID: FLA187348

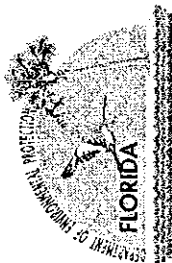
UIC Permit No.: 183519-002-UC

Month/Year	OC-1(740' - 760')						SW-1(380' - 400')					
	Water Level (NGVD, Ft)			Wellhead Pressure (psi)			Water Level (NGVD, Ft)			Wellhead Pressure (psi)		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
Jun-08			0.00			0.0			0.00			0.0
1			0.00			0.0			0.00			0.0
2			0.00			0.0			0.00			0.0
3			0.00			0.0			0.00			0.0
4			0.00			0.0			0.00			0.0
5			0.00			0.0			0.00			0.0
6			0.00			0.0			0.00			0.0
7			0.00			0.0			0.00			0.0
8			0.00			0.0			0.00			0.0
9			0.00			0.0			0.00			0.0
10			0.00			0.0			0.00			0.0
11			0.00			0.0			0.00			0.0
12			0.00			0.0			0.00			0.0
13			0.00			0.0			0.00			0.0
14			0.00			0.0			0.00			0.0
15			0.00			0.0			0.00			0.0
16			0.00			0.0			0.00			0.0
17			0.00			0.0			0.00			0.0
18			0.00			0.0			0.00			0.0
19			0.00			0.0			0.00			0.0
20			0.00			0.0			0.00			0.0
21			0.00			0.0			0.00			0.0
22			0.00			0.0			0.00			0.0
23			0.00			0.0			0.00			0.0
24			0.00			0.0			0.00			0.0
25			0.00			0.0			0.00			0.0
26			0.00			0.0			0.00			0.0
27			0.00			0.0			0.00			0.0
28			0.00			0.0			0.00			0.0
29			0.00			0.0			0.00			0.0
30			0.00			0.0			0.00			0.0
31			0.00			0.0			0.00			0.0
	Monthly Maximum			Monthly Maximum			Monthly Maximum			Monthly Maximum		
	Monthly Minimum			Monthly Minimum			Monthly Minimum			Monthly Minimum		
	Monthly Average			Monthly Average			Monthly Average			Monthly Average		
	#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!		
	0.00			0.00			0.00			0.00		
	0.00			0.00			0.00			0.00		
	0.00			0.00			0.00			0.00		

**State of Florida
Department of Environmental Protection**

Southwest District • 13051 North Telecom Parkway • Temple Terrace, Florida 33637-0926

Underground Injection Control Program



Facility Name: Progress Energy Florida-Hines Energy Complex

Well Name: QC-1 & SW-1

Facility ID: FLA187348

UIC Permit No.: 183519-002-UC

APPENDIX I

[illegible]