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Charlie Crist
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Lt. Governor

Michael W. Sole
Secretary

August 7, 2008

- CERTIFIED MAIL - RETURN RECEIPT REQUESTED -

Mr. Michael Shrader
Lead Environmental Specialist
Progress Energy Florida, Inc.
St. Petersburg, FL 33733

RE: Crystal River Energy Complex
Modification to Conditions of Certification
DEP Case Number PA 77-09L
OGC Case Number 08-0597

FINAL ORDER MODIFYING CONDITIONS OF CERTIFICATION

Dear Mr. Shrader:

The Florida Pollution Control Board issued the Site Certification for the Progress Energy Florida's (PEF) Crystal River Units 4 and 5 on November 21, 1978. This certification authorized the construction and operation of two 640 MW coal-fire power plant units (Units 4 and 5) and ancillary facilities. The Department of Environmental Protection (Department) has modified the Conditions of Certification by Final Order on eleven other occasions by final orders.

The Department has reviewed PEF's petition dated April 3, 2008 for modification to the Conditions of Certification. The Department has also initiated additional modifications. Pursuant to 403.516 (1) (c), Florida Statutes ("F.S."), the Department may modify the terms and conditions of a site Certification upon its own initiative.

On or before June 9, 2008, all parties to the certification proceeding were provided with notice by certified mail of the Department's intent to modify the Conditions of Certification for this facility, along with a copy of the proposed Order Modifying Conditions of Certification.

On June 27, 2008, notice of the Department's intent to modify the Conditions of Certification for this facility was published on the Florida Administrative Weekly (FAW). Pursuant to Section 403.516, Florida Statutes ("F.S."), and Rule 62-17.211, Florida Administrative Code ("F.A.C."), all parties to the certification proceeding have 45 days from the issuance of notice by mail to such party's last address of record in which to file a written objection to the modification; that any person who is not already a party to the certification proceeding and whose substantial interests will be affected by the requested modification has 30 days from the date of publication of the public notice in the Florida Administrative Weekly to object in writing; that failure to act within the time frame constitutes a waiver of the right to become a party; and that the Department will issue an Order Modifying the Conditions of Certification for this facility if no written objections are received by the Department.

No objections to the modification have been received by the Department. The Conditions of Certification for the Crystal River Units 4 and 5 are hereby modified as follows:

General No Change

Special

I. No change.

II. Water Discharges

A. No change.

B. Water Monitoring Programs

1. No change

2. Groundwater Monitoring

a. No change

b. The groundwater monitoring program shall be implemented at least one year prior to operation of Crystal River No. 4. The chemical analyses shall be in accord with the latest edition of *Standard Methods for the Analysis of Water and Wastewater*. The data shall be submitted within 30 days of collection/analysis to the Southwest Florida Water Management District (SWFWMD) and to the ~~DER~~ DEP Southwest District Office.

c. No change

C. through D. No Change

III. Southwest Florida Water Management District (SWFWMD)- Groundwater

~~**A. General**~~

~~The use of groundwater from a linear well field for plant service water for Units 4 and 5 shall be minimized to the greatest extent practicable, but in no case shall exceed 3 mgd on a maximum daily basis from any new wells or 1.0 mgd on an average annual basis.~~

~~**B. Well Criteria**~~

~~The submission of well logs and test results and location, design and construction of wells to provide plant service water shall be in accordance with applicable rules of the Department of Environmental Regulation and the Southwest Florida Water Management District (SWFWMD). Total water use per month shall be reported monthly to SWFWMD commencing with the start of construction.~~

~~**C. Well Withdrawal Limits**~~

~~PEF is authorized to make a combined average annual withdrawal of 1,000,000 gallons of water per day with a maximum combined withdrawal rate not exceed 3,000,000 gallons during a single day. Withdrawals may be made from a linear well field consisting of up to seven (7) wells whose locations are prescribed in the table below.~~

~~WITHDRAWAL POINT~~			~~GALLONS PER DAY~~	
~~PEF Well No.~~	~~LATITUDE~~	~~LONGITUDE~~	~~MAXIMUM~~	~~AVERAGE~~
~~PW-1~~	~~28 57 36~~	~~82 37 48~~	~~756,000~~	~~459,375~~
~~PW-2~~	~~28 37 36~~	~~82 37 42~~	~~756,000~~	~~459,375~~
~~PW-3~~	~~28 57 36~~	~~82 37 36~~	~~756,000~~	~~459,375~~
~~PW-4~~	~~28 57 36~~	~~82 37 30~~	~~756,000~~	~~459,375~~
~~PW-5~~	~~28 57 36~~	~~82 37 24~~	~~756,000~~	~~*~~
~~PW-6~~	~~28 57 36~~	~~82 37 18~~	~~756,000~~	~~*~~
~~PW-7~~	~~28 57 36~~	~~82 37 13~~	~~756,000~~	~~*~~
~~Combined Maximum:~~			~~3,000,000~~	~~1,000,000~~

* Wells PW-5, PW-6, and PW-7 are not in current use and shall only be used in emergency situations. If more than the existing four wells are placed into operation, then the average withdrawal rate limit for each well will default to 262,500 GPD.

D. Water Use Restriction

Said water is restricted to uses other than main steam condensing. Any change in the use of said water will require a modification of this condition.

E. Emergency Shortages

In the event an emergency water shortage should be declared pursuant to Section 373.175 or 373.246, F.S., by Southwest Florida Water Management District, for an area including the location of these withdrawal points, the Department, pursuant to Section 403.516, F.S., may alter, modify, or declare to be inactive, all or parts of Special Condition III. A-G. An authorized Water Management District representative, at any reasonable time, may enter the property to inspect the facilities.

F. Monitoring and Reporting

PEF shall, within the time limits hereinafter set forth, complete the following items, and if it fails to complete them by the specified time, then Special Condition III. A-G shall automatically become null and void.

1. PEF shall install and continuously maintain totalizing flow measurement devices on withdrawal point(s) as listed. Said devices shall have and maintain an accuracy within five percent of the actual flow under the installed operating conditions.

Licensee shall notify the District upon completion of new installation prior to commencement of withdrawal.

Alternative flow measuring systems may be substituted upon written approval by the Director of the Regulatory Division of SWFWMD in advance of installation.

2. PEF shall submit to SWFWMD, of forms available from the District, a record of pumpage for each meter installed in F. 1. above. Said pumpage shall be provided on a monthly basis. Reports will be sent to:

Chief, Processing and Records
Southwest Florida Water Management District
5060 U.S. Highway 41, South
Brooksville, Florida 33512

3. PEF shall maintain and operate continuous water level recorders on wells MZ-2I, MZ-2D, and PW-7 located at Progress Energy Florida pump test site in Citrus County, Florida. PEF shall manually measure water levels monthly in wells MZ-2S, MZ-1S, MZ-1I and MZ-1D. Detailed hydrographs of water level fluctuations shall be constructed with the data collected from the water level recorders and shall be submitted to SWFWMD monthly.

4. Water quality analysis shall be performed of water withdrawn from each production well and from wells MZ-2I and MZ-2D. The water samples collected from each of the referenced wells shall be collected immediately after removal by pumping of a quantity of water equal to two casing volumes. The water quality analyses shall be performed monthly during the first year of operation, four times (January, May, September and December) during the second year and twice each year (May and September) thereafter. Results shall be submitted to SWFWMD by the fifteenth (15th) day of the month following the month during which such analyses were performed. Testing for the following constituents is required:

Calcium Magnesium Sodium

~~Potassium Bicarbonate Sulfate~~
~~Chloride Nitrate Total Dissolved Solids~~
~~Specific Conductance Gross Alpha Radiation Total Phosphate~~
~~Radium 226 (only if gross Alpha is greater than 15 pci/l)~~

~~5. In the event that SWFWMD determines there is a significant change in the water quality, the Department pursuant to Section 403.516, F.S., may require the Licensee to reduce or cease withdrawal from these groundwater sources.~~

~~**G. Minimum Water Level Restrictions**~~

~~The Department and SWFWMD may, at a future date pursuant to Section 403.516, F.S., establish a minimum water level in the aquifer or aquifers hydrologically associated with these withdrawals, which may require PEF to reduce or cease withdrawal from these groundwater sources at times when water levels fall below these minimums.~~

~~**H. Leachate**~~

~~1. Compliance~~

~~Leachate from the ash landfill, coal storage piles, plant drains collection pond, canal retention system and ditches shall not contaminate waters of the State (including both surface and groundwaters) in excess of the limitations of Chapter 17-3, FAC.~~

~~2. Monitoring~~

~~A monitoring well system shall be used, commencing with operation, to determine whether or not leachate from the plant drains collection pond, canals, ditches, the ash landfill and coal pile is reaching the groundwater in violation of Chapter 17-3. The Licensee shall keep a monthly record of the monitoring results and shall notify the Southwest district Office of the Department and the Southwest Florida Water Management District when said measurements exceed water quality standards. A quarterly summary of the results of monitoring shall be provided to the Southwest District Manager. The proposed monitoring well system shall be submitted to the Department for approval prior to installation.~~

~~3. Corrective Action~~

~~When the leachate monitoring system indicates to the Department violation of the groundwater quality standards of Chapter 17-3, FAC, the appropriate ditches, pond, ash landfill, or coal pile shall be sealed, relocated or closed, or the operation of the affected facility shall be altered in such a manner as to assure the Department that no significant contamination of the groundwater will occur.~~

A. Withdrawal Quantities and Facilities

District ID/Owner ID	Water Allocation Average Gallons per Day	Well Casing/Depth Feet	STATUS
1/PW-1	250,000	35/200	EXISTING
2/PW-2	250,000	47/200	EXISTING
3/PW-3	250,000	60/200	EXISTING
4/PW-4	250,000	41/200	EXISTING
5/PW-5	521,520	35/200	EXISTING
6/PW-6	521,520	50/200	EXISTING
7/PW-7	521,520	50/200	EXISTING
14/PW-8	521,520	50/200	PROPOSED
15/PW-9a	521,520	50/200	PROPOSED

16/PW-10a	**521,520**	**50/200**	**PROPOSED**
Total All Wells	**4,309,000**		

B. Submit Reports/Data

All reports and data required by these conditions of certification shall be submitted to the SWFWMD according to the due dates contained in the specific condition. If the report or data is received on or before the tenth day of the month following data collection, it shall be deemed as a timely submittal. The Licensee may use the SWFWMD's website to submit data, plans or reports online. To set up an account, the Licensee can address the request to permitdata@watermatters.org. All mailed reports and data are to be sent to:

Permit Data Section, Regulation Performance Management Department
Southwest Florida Water Management SWFWMD
2379 Broad Street
Brooksville, Florida 34604-6899

Submission on plans and reports: Unless submitted online or otherwise indicated in the special condition, the original and two copies of each plan and report required herein.

Submission of Data: Unless submitted online or otherwise indicated in the special condition, an original (no copies) is required for data submittals such as meter readings and/or pumpage, rainfall, water level, evapotranspiration, or water quality data.

C. Environmental Impacts, Monitoring, and Mitigation: Environmental Assessment

1. Environmental Monitoring Plan

Licensee shall submit an Environmental Monitoring Plan for SWFWMD review and approval within 90 days of conditions of certification issuance. The monitoring plan, at a minimum shall utilize the SWFWMD's Wetland Assessment Procedure to evaluate the relative condition of surface waters and wetlands in areas affected by water withdrawals of Licensee. Upon SWFWMD approval, the plan shall be implemented and monitoring reports shall be provided in the annual monitoring report required by Condition No. C.6. After two years of monitoring following groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, the Licensee may request the SWFWMD release the Licensee from monitoring. If the SWFWMD concurs with the request, the SWFWMD will request DEP modify the conditions of certification to remove the monitoring condition.

2. Data Collection:

Licensee shall maintain and monitor the environmental monitoring sites included in the approved monitoring plan. Water levels for monitor wells and staff gauges for the sites included in the monitoring plan shall be referenced to National Geodetic Vertical Datum (NGVD) and reported in a form acceptable to the SWFWMD by the 10th day of each month for the preceding month. The time and date that the elevation is taken shall be included. Any changes to the methods or frequency of monitoring for any of these data collection programs must be approved by the SWFWMD.

3. Licensee shall install and thereafter maintain SWFWMD-approved staff gauges and shall report measurements of water levels, as indicated in the monitoring plan. Water levels shall be recorded and reported to the SWFWMD on or before the tenth day of the following month. To the maximum extent possible, water levels shall be recorded as indicated in the monitoring plan. The frequency of recording may be modified by the SWFWMD as necessary to ensure protection of the resource.

4. Licensee shall maintain a continuous recording rain gauge within the area. Total daily rainfall shall be recorded at this station and submitted to the SWFWMD (on SWFWMD forms or on line) on or before the tenth day of the following month. The reporting period for these data shall begin on the first day of each month and end on the last day of each month.

5. Licensee shall monitor water levels in the monitor wells and piezometers as specified in the monitoring plan. Reports of the data shall be submitted to the SWFWMD in a form acceptable to the SWFWMD. All data shall be referenced to NGVD. The frequency of water-level recording may be modified by the SWFWMD as necessary to ensure the protection of the resource.

6. Annual Environmental Monitoring Reports

Licensee shall submit an annual environmental monitoring data summary by January 1st of each year for the preceding water year (October 1 - September 30). The Annual Monitoring Report shall include all raw data, essential graphs, tables, and text. Monitoring progress at each site shall be summarized in the Annual Monitoring Report, as specified below. Licensee shall submit three copies of the Annual Monitoring Report each year. Interpretive reports of wellfield environmental conditions shall incorporate all environmental monitoring sites used. The Annual Monitoring Report shall assess relationships between water level fluctuations, well pumpage, atmospheric conditions, and drainage factors related to the environmental condition of the wetlands and surface waters in the vicinity of the conditions of certification area. Pumpage data, wetland, water level data collected from the aquifer and for the region, and environmental parameters collected at the wellfield and in the region shall be used for the report results. Statistical trend analysis, such as double-mass curve analysis, multiple linear regression, time series analysis and/or factor analysis shall be performed to analyze the interactions of rainfall and pumpage on surficial water levels, potentiometric levels in the semi-confined aquifers, surface waters, and wetland water levels, rate of soil subsidence, and evidence of vegetational succession. Data shall be obtained through field measurements and aerial photo interpretation. A brief summary of any recommended changes to the monitoring requirements shall be provided.

D. Alternative Water Supply Implementation

The Licensee shall investigate the development of one or more alternative water supply projects to supply the water supply demands to offset all or a portion of the groundwater allocated by these conditions of certification. Alternative water supplies include seawater desalination, brackish surface or ground water, water that has been reclaimed after one or more uses, stormwater, and any other water supply source designated as non-traditional for a water supply planning region in the applicable regional water supply plan. Unless the Environmental Monitoring specified in Condition 2. above and the aquifer performance testing indicate that adverse environmental impacts are not occurring and are not predicted to occur, the Licensee shall either mitigate impacts in accordance with a plan accepted by the SWFWMD, or, select and implement an alternative water supply project, in accordance with the following schedule:

1. Within 6 months of groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, the Licensee shall submit for SWFWMD approval, an Alternative Water Supply Plan. The Alternative Water Supply Plan shall evaluate, identify, and propose alternative water supply development of at least three million two hundred thousand (3,200,000) gallons per day (gpd).

2. Within 2 years of groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, Licensee shall submit to SWFWMD, a preliminary design of the approved alternative water supply project that the Licensee will implement.

3. Within 2 years of groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, the

Licensee shall provide an analysis of environmental conditions as specified in Condition C. above. If SWFWMD determines that adverse environmental impacts are not occurring and not predicted to occur, the Licensee may seek an extension of time or waiver for implementing the alternative water supply project. If SWFWMD determines that adverse environmental impacts are occurring or are predicted to occur, the alternative water supply project schedule must be maintained. If adverse environmental impacts are occurring or predicted to occur, the alternative water supply quantity required to be developed will be determined based upon a revised hydrogeologic evaluation performed by the Licensee and accepted by SWFWMD.

4. Within 2 years of groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, submit to the Florida Department of Environmental Protection and SWFWMD, applications for authorization to develop and use at least 3,200,000 gpd of water from the project as appropriate, unless an extension of time or waiver has been granted by SWFWMD.

5. Within 2 years of groundwater use rising to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, submit to SWFWMD an alternative water supply implementation schedule detailing the dates when construction will begin and end, and the date when water will be delivered from the project for use by the Licensee. In no event shall the time when water is supplied by the project be more than more than 4 years after groundwater use has risen to more than 3 million gallons per day (average annual daily withdrawal quantity) from all the wells included in this site certification, unless an extension of time for just cause or otherwise modified in writing by SWFWMD has been granted by SWFWMD.

6. Compliance with the Alternative Water Supply Implementation Schedule is required by the Licensee, unless extended or otherwise modified in writing by SWFWMD. Each year, by March 1, after the water use triggers described above, the Licensee shall submit to SWFWMD a status report describing the progress made on the Alternative Water Supply lmplementation Schedule, including the specific actions taken to meet the requirements set forth above. If the project has fallen behind schedule, Licensee shall provide just cause for the delay and/or explain how the Licensee will comply with the schedule described herein.

E. Compliance Reporting

The Licensee shall submit a compliance report beginning January 28, 2013 and at 5 year intervals after the issuance date of these conditions of certification. The report must contain sufficient information to demonstrate reasonable assurance that the withdrawals and use of water authorized by these conditions of certification continue to meet the substantive requirements set forth in Chapter 40D-2, F.A.C., and SWFWMD's Water Use Permit Information Manual Part B, Basis of Review. The compliance report must include:

1. Information documenting water demands and updated demand projections demonstrating that allocations from all sources in the conditions of certification will continue to be needed for the remainder of the conditions of certification duration;

2. Documentation verifying that the sources are capable of supplying the needs authorized by these conditions of certification without causing harm to water and water-related resources;

3. Documentation verifying that the use of water is efficient and that the Licensee is implementing all feasible water conservation measures;

4. An updated ground water modeling analysis and data analysis demonstrating that the use of groundwater does not interfere with legal uses existing at the time of issuance of this modification of the conditions of certification;

5. An updated ground water modeling analysis, along with statistical analyses of water-level and wetland monitoring data, demonstrating that the use does not cause adverse impacts to wetlands, and surface waters, or violations of MFLs;

6. Documentation that ground water withdrawals by the Licensee are not causing or contributing to significant saltwater intrusion, including but not limited to review and statistical analyses of groundwater level and water quality data collected by the Licensee under these conditions of certification;

7. Information demonstrating that the lowest quality source of water is being used to meet the water demands.

Following review of this report, SWFWMD may seek modification of the conditions of certification to ensure that the use continues to meet the substantive conditions for the consumptive use of water as set forth in Section 373.223, F.S., and Chapter 40D-2, F.A.C.

F. Pumpage Reporting

Licensee shall meter withdrawals and record meter readings from each withdrawal point and water supply line on a monthly basis within the last week of the month. The meter readings shall be reported to the SWFWMD on or before the tenth day of the following month. If a metered withdrawal is not utilized during a given month, the meter report shall be submitted to the SWFWMD indicating the same meter reading as was submitted the previous month. The following withdrawals shall be metered:

Withdrawal facilities that are not yet constructed shall install meters on SWFWMD ID Nos. **5, 6, 7, 14, 15, 16,** Licensee ID Nos. **PW-5, PW-6, PW-7, PW-8, PW-9a, PW-10a,** within 90 days of completion of construction of the withdrawal facilities.

Licensee shall continue to maintain and operate existing, non-resettable, totalizing flow meters or other flow measuring devices as approved by the Brooksville Regulation Department Director on SWFWMD ID Nos. **1, 2, 3, 4,** Licensee ID Nos. **PW-1, PW-2, PW-3, PW-4.**

All meters shall adhere to the following descriptions and shall be installed and maintained as follows:

1. The meters shall be non-resettable, totalizing flow meters with totalizers of sufficient capacity to retain total gallon data for a minimum of the three highest consecutive months. If other measuring devices or other accounting methods are proposed, Licensee shall submit documentation that the other measuring devices or accounting method meet the stipulations listed in this condition, prior to installation. Approval for other measuring devices or accounting methods shall be obtained in writing from the Brooksville Regulation Department Director.

2. Flow meters or other approved devices shall have and maintain accuracy within five percent of the actual flow as installed.

3. The flow meter-water piping system shall be designed for inline field access for meter accuracy testing. The meter shall be tested for accuracy on-site, as installed, every five years beginning from the date of its installation for new meters or from the date of initial issuance of these conditions of certification containing the metering condition with an accuracy-test requirement for existing meters, unless Licensee submits documentation to the satisfaction of the SWFWMD that a longer period of time for testing is warranted. The test shall be performed by a person certified to use the test equipment. If the actual flow is found to be greater than five percent different from the measured flow, within 30 days, Licensee shall have the meter re- calibrated, repaired, or replaced. Documentation of the test and a certificate of re-calibration, if applicable, shall be submitted within 30 days of each test or recalibration. If the accounting method involves a meter belonging to another entity or to the water supplier, Licensee shall submit documentation from the owner/ supplier that the meter readings continue to be accurate to five percent of the actual flow as installed. Such documentation is subject to approval by the SFWMD.

4. The meter shall be installed according to the manufacturer's instructions for achieving accurate flow to the specifications above, or it shall be installed in a straight length of pipe with at least an upstream length equal to ten times the outside pipe diameter and a downstream length equal to two times the outside pipe diameter. If sufficient pipe length is not available, flow straightening vanes shall be used in the upstream line.

5. If the meter or other flow measuring device malfunctions or has to be removed from the water supply line for maintenance or repair, Licensee shall notify the SWFWMD within 30 days of discovery and replace it with a repaired or new meter, subject to the same specifications given above. The repaired or replacement meter shall be installed within 30 days of discovery. If the meter is removed for any other reason, it shall be replaced with another meter having the same specifications given above, or the meter shall be reinstalled within 30 days of its removal. In either event, a fully functioning meter shall not be off the water supplies line for more than 60 consecutive days.

6. While the meter is being repaired or replaced, Licensee shall provide an estimate of the water supply quantities used by multiplying the number of hours the water supply was used by the capacity of the pump or mainline diameter. The estimate of the number of gallons used each month during that period shall be noted as an estimate when it is submitted to theSWFWMD.

7. In the event a new meter is installed to replace a broken meter, the replacement meter and its installation shall meet the specifications of this condition. Licensee shall notify the SWFWMD of the replacement with the first submittal of meter readings from the new meter.

G. Distribution Flexibility

The average day, peak monthly, and maximum daily, if applicable, quantities for District ID No(s) **1, 2, 3, 4, 5, 6,7, 14, 15, 16** Licensee ID No(s). **PW-1, PW-2, PW-3, PW-4, PW-5, PW-6, PW-7, PW-8, PW-9a, PW-10a** shown above in the production withdrawal table are estimates based on historic and projected distribution of pumpage, and are for water use inventory and impact analysis purposes. The quantities listed in the table for these individual sources are not intended to dictate the distribution of pumpage from the withdrawal sources. The Licensee may make adjustments in pumpage distribution as necessary up to **125 percent** on an average basis, up to **125 percent** on a peak monthly basis, so long as adverse environmental impacts do not result and other conditions of this certification are complied with. In all cases, the total average annual daily withdrawal and the total peak monthly daily withdrawal are limited to the quantities set forth above.

H. Water quality sampling

1. Water quality samples shall be collected and analyzed for parameters and at the frequencies specified below. Water quality samples from production wells shall be collected from all wells, unless infeasible. If sampling is infeasible, Licensee shall indicate the reason for not sampling on the water quality data form. Water quality samples shall be analyzed by a laboratory certified by the Florida Department of Health utilizing the standards and methods applicable to the parameters analyzed and to the water use pursuant to Chapter 64E-1, Florida Administrative Code, "Certification of Environmental Testing Laboratories". At a minimum, water quality samples shall be collected after pumping the well at its normal rate for a pumping time specified in the table below, or to a constant temperature, pH, and conductivity. In addition, Licensee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis. Any variance in sampling and/or analytical methods shall have prior approval of the Brooksville Regulation Department Director. Reports of the analyses shall be submitted to the Permit Data Section, Regulation Performance Management Department, (using SWFWMD forms) on or before the tenth day of the following month, and shall include the signature of an authorized representative and certification number of the certified laboratory which undertook the analysis. The parameters and frequencies of

sampling and analyses may be modified by the Brooksville Regulation Department Director, as necessary to ensure the protection of the resource.

Ditrict ID No.	Licensee ID No.	Minimum Pumping Time (minutes	Parameter	Sampling Frequency
1	PW-1	20 minutes	Chlorides, Sulfates, and T.D.S.	February, May, August, and November
2	PW-2	20 minutes		
3	PW-3	20 minutes		
4	PW-4	20 minutes		
5	PW-5	20 minutes		
6	PW-6	20 minutes		
7	PW-7	20 minutes		
14	PW-8	20 minutes		
15	PW-9a	20 minutes		
16	PW-10a	20 minutes		

Water quality samples shall be collected quarterly and on the same week of the months specified. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency (EPA).

2. Water quality samples from monitor wells shall be collected and analyzed for the District ID No., parameter(s), and frequency(ies) specified in the table below. Water quality samples shall be collected after pumping the monitor wells(s) to a constant temperature, pH, and conductivity. Sampling method(s) shall be designed to collect water quality samples that are chemically representative of the zone to be sampled. Water quality samples shall be analyzed by a laboratory certified by the Florida Department of Health utilizing the standards and methods applicable to the parameters analyzed and to the water use pursuant to Chapter 64E-1, Florida Administrative Code, "Certification of Environmental Testing Laboratories". The Permittee's sampling procedure(s) shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis. A report describing the sampling and chain of custody procedures shall be included with the first data submitted after the date this permit is granted, and upon any change in sampling and/or analytical method(s). Any variance in sampling and/or analytical methods shall have prior approval of the SWFWMD. Reports of the analyses shall be submitted on SWFWMD forms on or before the tenth day of the following month, and shall include the signature of an authorized representative and certification number of the certified laboratory that undertook the analysis. The parameters and frequency of sampling and analysis may be modified by the SWFWMD as necessary to ensure the protection of the resource.

District ID No.	Licensee ID No.	Parameter	Sample Frequency
8	MZ-2I	Chlorides,	May, September
9	MZ-2D	Sulfates, and TDS	
10	MZ-2S		
11	MZ-1S		
12	MZ-1I		
13	MZ-1D		

Water quality samples shall be collected based on the following timetable:

Semi-annually Same week of months specified

Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency (EPA).

3. The SWFWMD reserves the right to set chloride, sulfate or TDS concentration limits on any production well in the future, based on data collected and after a sufficient data base has been established to determine limits. These limits shall be required after discussions with the Licensee. At such time as the concentration in any water sample reaches or exceeds the designated concentration limits, the Licensee shall take appropriate action to reduce concentrations to below those set for the particular well. If the SWFWMD determines that long-term upward trends or other significant water quality changes are occurring, the SWFWMD may reconsider the quantities included in these conditions of certification.

4. During drilling of District ID Nos. **14, 15, 16**, Licensee ID Nos. **PW-8, PW-9a, PW-10a**, water quality samples shall be collected at intervals of the change of drill rod or 30 feet, which ever is less, from 150 feet to a maximum depth of five feet above the bottom of the well. Regardless of the specified sample collection interval, a sample shall be collected from the depth which corresponds to five feet above the bottom of the well. Samples shall be collected during reverse air drilling, or other appropriate method with prior approval by the SWFWMD.

Samples shall be analyzed by a certified laboratory for Chloride, Sulfate, and Specific Conductivity. Licensee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis. Reports of the analyses shall be submitted to the Permit Data Section, Regulation Performance Management Department (using SWFWMD forms) within thirty days of sampling, and shall include the signature of an authorized representative and the certification number of the Florida Department of Health certified laboratory utilizing the standards and methods applicable to the parameters analyzed and to the water use pursuant to Chapter 64E-1, Florida Administrative Code, "Certification of Environmental Testing Laboratories".

Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association-American Water Works Association-Water Pollution Control Federation (APHA-AWWA-WPCF) or by Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency (EPA).

5. Monthly water levels for monitor wells for the sites included in the table below shall be referenced to NGVD, and reported in a form acceptable to the SWFWMD by the **tenth** day of each month for the preceding month. The time and date that the elevation is taken shall be included. Changes to the methodology, extent, or frequency of monitoring at any of these sites may be modified by the SWFWMD, as necessary to ensure the protection of the resources.

District ID. No	Licensee Site No.
8	MZ-2I
9	MZ-2D
10	MZ-2S
11	MZ-1S
12	MZ-1I
13	MZ-1D

I. Wells

1. Wells not in use with no installed pumping equipment shall be capped or valved in a water tight manner in accordance with Rule 62-532.500(3)(a)(4), F.A.C.

2. Within 90 days of the completion of each proposed well, Licensee shall submit to the SWFWMD specific capacity (well testing) information from any test performed by the Water Well Contractor or pump installer on the well. This information shall include:

a. Static water level before pumping

b. Duration of test pumping

c. Gallons per minute pumped

d. Final water level measured during pumping

If step-drawdown tests were performed, the information listed above shall be submitted for each step.

3. Within 90 days of construction, Licensee shall submit to the Permit Data Section, Regulation Performance Management Department, the specific locations of District ID Nos. **14, 15, 16** Licensee ID Nos. **PW-8, PW-9a, PW-10a,** on an original blue line aerial with a minimum scale of one inch equals 800 feet, or by latitude/longitude. Intake and mainline diameters for each of the above pumps shall be reported at the time of location reporting.

4. For the purpose of determining site-specific transmissivity, a step drawdown and a multi well constant rate test shall be performed on one or more of the following: District ID Nos. **14, 15, 16** Licensee ID Nos. **PW-8, PW-9a, PW-10a,** after the wells have been fully developed. The test shall be performed in accordance with the specifications set forth in Design Aid 3, Water Use Permit Information Manual and an Aquifer Performance Testing (APT) Plan submitted to and approved by the SWFWMD. The APT Plan shall be submitted to the SWFWMD, within 90 days of the approval of the modification of the conditions of certification. The APT shall be conducted by the Licensee within 6 months of construction of the wells included in the APT Plan and prior to the use of any of the wells constructed for the APT'S. All recorded raw data shall be submitted to the SWFWMD within thirty (30) days of completion of the APT.

5. Within sixty (60) days, the Licensee shall designate one individual responsible for receiving and responding to the SWFWMD notices and correspondence related to these conditions of

certification. Notification to the SWFWMD of the designee, including address and telephone number shall be in written form.

6. Within 90 days of conditions of certification issuance, Licensee shall develop and implement a Water Conservation Plan (Plan) that includes practices currently employed or planned. For planned components, include an estimated time-frame for implementation for each. The Plan must indicate that technically and economically feasible water conservation opportunities have been or will be employed.

7. The lowest quality water source, including reclaimed water, surface water and stormwater, must be used for each consumptive use authorized by these conditions of certification when available, except when Licensee demonstrates that the use of the lower quality water source is determined to be not economically, environmentally, or technologically feasible, in accordance with the SWFWMD's Water Use Permit Information Manual Part B, Basis of Review, Sections 4.4 and 4.1 1.

8. Wetlands and other surface waters may not be adversely impacted as a result of the water use authorized by these conditions of certification. If unacceptable adverse impacts occur, the SWFWMD will request that DEP revoke these conditions of certification in whole or in part to curtail or abate the unacceptable adverse impacts, unless the impacts can be mitigated by Licensee.

J. Standard Conditions

Licensee shall comply with the following Standard Conditions:

1. If any of the statements in the application and in the supporting data are found to be untrue and inaccurate, or if Licensee fails to comply with all of the provisions of Chapter 373, F.S., Chapter 40D, or the conditions set forth herein, the SWFWMD shall seek revocation of any conditions of certification.

2. These conditions of certification are imposed based on information provided by Licensee demonstrating that the use of water is reasonable and beneficial, consistent with the public interest, and will not interfere with any existing legal use of water. If, during the term of this certification, it is determined by the SWFWMD that the use is not reasonable and beneficial, in the public interest, or does impact an existing legal use of water, the SWFWMD shall seek modification these conditions of certification or revocation of the certification authorized by DEP.

3. Licensee shall not deviate from any of the SWFWMD- imposed conditions of this certification without written approval by the Department and the SWFWMD.

4. In the event the SWFWMD declares that a Water Shortage exists pursuant to Chapter 40D-21, Licensee agrees that portions of these conditions of certification shall be modified, or declared inactive as necessary to address the water shortage.

5. The SWFWMD shall collect water samples from any withdrawal point listed in these conditions of certification or shall require Licensee to submit water samples when the SWFWMD determines there is a potential for adverse impacts to water quality.

6. Licensee shall provide access to an authorized SWFWMD representative to enter the property at any reasonable time to inspect the facility and make environmental or hydrologic assessments. Licensee shall either accompany the SWFWMD staff onto the property or make provision for access onto the property.

7. Licensee shall cease or reduce any surface water withdrawals as directed by the SWFWMD if water levels in surface water fall below applicable minimum water level established in Chapter 40D-8 or rates of flow in streams fall below the minimum levels established in Chapter 40D-8.

8. Licensee shall cease or reduce withdrawals if water levels in aquifers fall below the minimum levels established by the SWFWMD.

9. Licensee shall practice water conservation to increase the efficiency of transport, application, and use, as well as to decrease waste and to minimize runoff from the property. At such time as the SWFWMD adopts specific conservation requirements for Licensee's water use classification, these conditions of certification shall be modified accordingly.

10. The SWFWMD may establish special regulations for Water Use Caution Areas. At such time as the Governing Board adopts such provisions, these conditions of certification shall be subject to them upon notice and after a reasonable period for compliance.

11. Licensee shall mitigate any adverse impact to existing legal uses caused by withdrawals. When adverse impacts occur or are imminent, Licensee shall be required to mitigate the impacts. Adverse impacts include:

a. A reduction in water levels which impairs the ability of the well to produce water;

b. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses; or

c. Significant inducement of natural or manmade contaminants into a water supply or into a usable portion of any aquifer water body.

12. Licensee shall mitigate any adverse impact to environmental features or offsite land uses as a result of withdrawals. When adverse impacts occur or are imminent, the Licensee shall be required to mitigate the impacts. Adverse impacts include:

a. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses;

b. Sinkholes or subsidence caused by reduction in water levels;

c. Damage to crops and other vegetation causing financial harm to the owner; and

d. Damage to the habitat of endangered or threatened species.

13. When necessary to analyze impacts to the water resource or existing users, Licensee shall be required to install flow metering or other measuring devices to record withdrawal quantities and submit the data to the SWFWMD.

14. A SWFWMD identification tag shall be prominently displayed at each withdrawal point by permanently affixing the tag to the withdrawal facility.

15. Licensee shall notify the SWFWMD within 30 days of the sale or conveyance of permitted water withdrawal facilities or the land on which the facilities are located.

16. The annual average daily withdrawal quantity is determined by calculating the total quantity of water to be withdrawn over a one year period, divided by 365 days, which results in a gallons per day (gpd) quantity pursuant to Basis of Review, Section 3.2, Permitted Withdrawal Quantities. This is a running 12-month average, whereby each month the annual average daily quantity is recalculated based on the previous 12-month pumpage.

IV-XIII. No Change

A complete set of the Conditions of Certification (including attachments) can be viewed and downloaded from the following website: http://www.dep.state.fl.us/siting/Highlights/conditions.htm. Copies of the Conditions of Certification and/or attachments may also be obtained by contacting Michael P. Halpin, P.E., Administrator, Siting Coordination Office, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 48, Tallahassee, Florida 32399-2400, (850) 245-8002.

Any party to the this Order has a right to seek judicial review of it pursuant to Section 120.68, Florida Statutes by filing a Notice of Appeal, pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department of Environmental Protection in the Office of General Counsel, 3900 Commonwealth Boulevard, M.S. 35, Tallahassee, Florida 32399-3000, and by filing a copy of the Notice of Appeal, accompanied by the applicable filing fees, with the appropriate SWFWMD Court of Appeal. The Notice of Appeal must be filed within thirty days from the date this Order is filed with the Clerk of the Department of Environmental Protection.

Executed in Tallahassee, Florida.

Michael P. Halpin, P.E.
Administrator,
Siting Coordination Office

FILING AND ACKNOWLEDGMENT

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

Essie Turner 8/7/08

Clerk Date

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