

**STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION**

**IN RE: DUKE ENERGY FLORIDA CITRUS)
COUNTY COMBINED CYCLE PROJECT)
POWER PLANT SITING APPLICATION)
NO. PA77-09A3)**

**OGC CASE No. 14-0431
DOAH CASE No. 14-3632-EPP**

FINAL ORDER APPROVING CERTIFICATION

This matter is before the Secretary of the Department of Environmental Protection (DEP or Department) for the purpose of entering a Final Order under sections 403.508(6), 403.509(1)(a), and 403.509(3), Florida Statutes.

BACKGROUND

On April 1, 2015, the Administrative Law Judge (ALJ) assigned by the Division of Administrative Hearings (DOAH) issued an order canceling hearing, closing file, and relinquishing jurisdiction. The order granted the parties' request to cancel the site certification hearing and relinquish jurisdiction in accordance with section 403.508(6). The order was issued pursuant to a Joint Stipulation and Motion of the Parties to Cancel Certification Hearing and to Relinquish Jurisdiction to the Department for Entry of Final Certification Order (Joint Stipulation). The Joint Stipulation, filed on March 31, 2015, stated that no disputed issues of fact or law remain to be raised at the site certification hearing. The Joint Stipulation stated that the parties and signatory agencies requested cancelation of the site certification hearing originally scheduled to begin on April 27, 2015, and did not object to entry of a Final Order by the Department.

As required by sections 403.5115(1)(g) and (4)(h), Florida Statutes, notice of cancelation of the site certification hearing was timely published by Duke Energy Florida and DEP in the Citrus County Chronicle and the Florida Administrative Register. Duke Energy Florida, on April 10, 2015, submitted a proposed final order. In light of the above, under section 403.509(1)(a) the Department is required to prepare and enter a Final Order.

PARTIES

The following are the parties to this site certification proceeding, under section 403.508(3), Florida Statutes: the Department, Duke Energy Florida, the Florida Fish & Wildlife Conservation Commission (FWCC), the Southwest Florida Water Management District (SWFWMD), and Citrus County. Those parties have been granted party status by statute or have timely filed a Notice of Intent to be a Party under section 403.508(3)(b), Florida Statutes. No other agency identified in section 403.508(3)(a) filed a Notice of Intent to be a Party before the 90th day prior to the scheduled site certification hearing. Further, no third person filed a petition to intervene in this proceeding as of the statutory deadline for intervention. In addition to the parties identified above, the Florida Department of Economic Opportunity (DEO) and Florida Department of Transportation (FDOT) signed the Joint Stipulation.

The following agencies submitted Agency Reports regarding the Project: FWCC, FDOT, SWFWMD, the Florida Department of State Division of Historical Resources (FDHR), and Citrus County.

STATEMENT OF THE ISSUE

The issue to be decided in this proceeding is whether DEP, acting in lieu of the Siting Board, should approve certification in accordance with the Florida Electrical Power Plant Siting Act (PPSA), sections 403.501, *et. seq.*, Florida Statutes, authorizing Duke Energy Florida to construct and operate the Citrus Combined Cycle Project (CCC Project or Project). The Project includes construction and operation of new natural gas-fired electrical generating facilities with a total nominal generating capacity of 1,640 megawatts (MW) and associated facilities in northwestern Citrus County, Florida. The certification is subject to the attached Conditions of Certification set forth in Exhibit A to the Joint Stipulation.

PRELIMINARY STATEMENT

On August 1, 2014, Duke Energy Florida filed with DEP a site certification application (SCA) for the CCC Project. On September 10, 2014, DEP filed a determination of incompleteness for the Project application. Duke Energy Florida submitted responses to the determination of incompleteness issued by DEP on October 10, 2014. On November 3, 2014, DEP determined the SCA to be complete.

The Florida Public Service Commission (PSC), on October 10, 2014, issued an affirmative determination of need for the CCC Project. On March 13, 2015, DEP issued its Project Analysis Report (PAR) with recommended Conditions of Certification based on DEP's analysis and the reports of the various reviewing agencies. The Conditions of Certification are attached as Exhibit A hereto (also attached as Exhibit A to the Joint Stipulation).

A site certification hearing was scheduled to be held in Citrus County, beginning on April 27, 2015. Under sections 403.5115(1)(e) and (4)(f), Florida Statutes, notice of that hearing was timely published by Duke Energy Florida in the Citrus County Chronicle in Citrus County, and by DEP in the Florida Administrative Register on February 20, 2015. No party to this proceeding is objecting to, and no reviewing agency recommended denial of final certification for the Project, subject to the proposed Conditions of Certification.¹ The purpose of the site certification hearing would have been to allow Duke Energy Florida and other agency parties to establish an evidentiary record to support the ALJ's issuance of a Recommended Order to the Siting Board. However, since no party to this proceeding objected to or recommended denial of final certification for the Project, the parties submitted a Joint Stipulation to the ALJ addressing certification issues and recommending cancelation of the certification hearing. In the Joint Stipulation, all parties agreed that the CCC Project should be certified subject to the proposed Conditions of Certification set forth in Exhibit A to the Joint Stipulation. The parties also recommended that the ALJ relinquish jurisdiction and return the case to the Department for entry of a Final Order under section 403.509(1)(a), Florida Statutes. The ALJ timely issued the order relinquishing jurisdiction on April 1, 2015, granting the parties' request to cancel the certification hearing.

¹ In the Joint Stipulation, the signatory agencies stipulated to the facts set forth within the respective agency subsections, headed by the agency name, which address matters within that agency's knowledge or subject matter jurisdiction. The signatory agencies stipulated that the Project complies with the nonprocedural requirements of that agency, so long as the Project complies with the agencies' recommended Conditions of Certification in Exhibit A to the Joint Stipulation.

FINDINGS OF FACT²

The Applicant & Proposed Project

1. Duke Energy Florida, headquartered in St. Petersburg, Florida, is a wholly-owned subsidiary of Duke Energy Corporation. Duke Energy Florida serves approximately 1.7 million customers in Florida. Duke Energy Florida's service territory covers approximately 20,000 square miles in all or part of 35 counties from Central Florida north to the Florida-Georgia state line, including the densely populated areas around Orlando, as well as the cities of St. Petersburg and Clearwater. Duke Energy Florida's existing, owned generating resources are located at 14 power plant sites distributed geographically around its service territory. These resources consist of a diversity of generating technologies and fuels, including coal- and natural gas-fired steam units; natural gas-fired combined cycle units; and natural gas- and oil-fired combustion turbine generator units.

2. The SCA requests approval of the proposed construction and operation of new electrical generating facilities and associated facilities in northwestern Citrus County, Florida. The proposed electrical generating facilities will be located on an approximately 400-acre site (Site) adjacent to the eastern boundary of Duke Energy Florida's existing Crystal River Energy Complex (CREC) and north of the existing transmission line right-of-way to the CREC. These facilities will consist of two natural gas-fired combined cycle units with each unit utilizing two advanced combustion turbine

² These factual findings are supported by the SCA, including Duke Energy Florida's Responses to Completeness Comments, and the DEP's PAR dated March 13, 2015, and attachments thereto.

generators (CTGs), two heat recovery steam generators (HRSGs), one steam turbine generator (STG), and directly associated facilities. The directly associated facilities include, but are not limited to, a cooling tower system, chillers (optional), switchyard, site access roads, percolation pond, storage tanks, water treatment facilities, stormwater ponds, construction laydown and parking areas, and an administration building/warehouse with parking. The Project will use seawater withdrawn from the existing CREC Unit 3 intake structure (with modifications) for cooling tower makeup and flow augmentation. The Project also includes construction of a new discharge structure in the existing CREC discharge canal.

3. The proposed Project facilities also include several on- and off-Site associated linear facilities, including 230- and 500-kilovolt (kV) electrical transmission lines, as well as pipelines for cooling tower makeup and blowdown, augmentation water, and well water. The only transmission facilities that are needed for the Project are the on-Site switchyard and transmission lines to connect the CCC Project with the existing Duke Energy Florida transmission facilities connected to Duke Energy Florida's transmission system and the electric power grid in Florida. This includes four new 230-kV interconnections and three new 500-kV connections. The off-Site portions of these linear facilities will be located within a corridor wholly contained within Duke Energy Florida-owned CREC property south of the Site.

4. Each combined cycle unit will have a nominal generating capacity of 820 megawatts (MW), for a total nominal generating capacity of 1,640 MW. The proposed

Project, which includes the electrical generating facilities and all associated facilities, is referred to as the Citrus Combined Cycle Project.

5. Natural gas will be delivered to the Site via an approximately 22-mile pipeline lateral from the new Sabal Trail Transmission, LLC (Sabal Trail) natural gas transmission system. Duke Energy Florida is not seeking certification of that pipeline in this proceeding as Sabal Trail will have controlling ownership.

6. The Site will be accessed via the CREC North Access Road. The primary Site access road will run from the CREC North Access Road in the southeast corner of the Site along the eastern Site boundary. A secondary access road from CREC North Access Road will be located west of the proposed switchyard. In addition, if Duke Energy Florida is able to obtain the necessary permission from the underlying property owners, Duke Energy Florida may utilize an existing road running parallel to the eastern boundary of the Site for Site access. That off-Site access road along the eastern boundary of the Site is not owned by Duke Energy Florida and will not be exclusively used by Duke Energy Florida. Any permits needed for improvements to that currently unpaved roadway will be separately obtained outside of this certification.

Existing CREC and Facilities

7. The existing CREC property consists of approximately 4,400 acres, including the approximately 1,330-foot-wide transmission line and road corridor running east from CREC to U.S. Highway 19 (U.S. 19). Adjacent land uses to the CREC property primarily include limestone mining and lands designated for future limestone mining to the north and northwest, and conservation lands to the south and southwest.

Access to CREC is provided by West Power Line Street, which connects to U.S. 19, approximately 3 miles to the east.

8. CREC has been used for power generation since 1966. The complex currently contains four operating coal-fired plants (CREC Units 1, 2, 4, and 5) and one nuclear plant (CREC Unit 3), which was permanently retired in 2013. The 440.5-MW (nominal) Unit 1 and 523.8-MW (nominal) Unit 2 were placed in commercial service in 1966 and 1969, respectively. The retired Unit 3 nuclear plant was placed in service in 1977. The 760-MW (nominal) Unit 4 and 760-MW (nominal) Unit 5 were placed in service in 1982 and 1984, respectively. Currently, the total generating capacity of the units on the CREC site is 2,484.3 MW (nominal). Duke Energy Florida anticipates retiring CREC Units 1 and 2 in 2018 in coordination with the proposed CCC Project commercial operations.

Construction

9. Construction of the Project will begin in January 2016 (or as soon as all required permits are obtained), with commercial operation scheduled for May 2018 for the first unit and December 2018 for the second unit. Approximately 193 acres of the approximately 400-acre Site will be impacted by construction activities.

10. The plant facilities area will be filled to raise the area by approximately 8 to 9 feet, which will protect the facilities from Category 2 storm surge flooding. The switchyard area will be raised by approximately 2 to 3 feet. Prior to placement of fill, surface vibratory compaction will be performed. When compacted, the fill will effectively seal off the limestone strata and reduce the risk of sinkhole activities.

11. The majority of equipment and materials for construction will be delivered to the Site by trucks. Some larger equipment, such as the CTGs, HRSGs, and STGs may be delivered via rail or barge.

12. After construction is complete, the construction laydown area, including the associated stormwater detention ponds, and a portion of the construction parking area will be cleared of all equipment and materials, seeded, and allowed to revegetate to natural conditions. A portion (3 to 5 acres) of the parking area will be maintained for future Duke Energy Florida and contractor use during plant maintenance outages and other support purposes.

Architectural or Historical Sites

13. A cultural resource assessment of the CCC Project Site and linear facilities corridor was conducted in May 2014. A review of the Florida Master Site File indicated that nine cultural resource surveys had been conducted in the area including the entirety of the Site. The previous surveys did not identify any cultural resources on the Site. The cultural resource assessment included a review of the available and relevant archaeological literature, historical maps and aerial photographs, soil survey information and vegetation maps and documentation related to geology and physiography. Based on the background research, approximately 95 percent of the Site was deemed to have a low potential for containing archaeological or historic sites. A total of 230 shovel tests were performed. The shovel tests were conducted at 100-meter intervals and were 50 centimeters (cm) in size to a depth exceeding 100 cm. The excavated soils were screened through a 0.25-inch mesh hardware cloth. The fieldwork

identified one previously unrecorded archaeological site and one linear resource. The unrecorded archeological site is a low-density artifact scatter consisting of four flakes; the linear resource is a segment of a railroad line. Neither resource meets the criteria for inclusion on the National Register of Historic Places.

Determination of Need

14. By Final Order (PSC-14-0557-FOF-EI) issued on October 10, 2014, the PSC found that the CCC Project is the most cost-effective alternative available to meet Duke Energy Florida's generation needs, as this criterion is used in section 403.519, Florida Statutes. The PSC also found that the Project will increase Duke Energy Florida's fuel diversity and supply reliability by relying on a new fuel transportation provider, and that the Project is expected to provide adequate electricity at a reasonable cost to Duke Energy Florida's customers. See Order No. PSC-14-0557-FOF-EI (Fla. P.S.C. Oct. 10, 2014).

Citrus County

Land Use

15. In September 2014, Citrus County adopted ordinances approving a comprehensive plan amendment and re-zoning of the CCC Project Site to make it consistent with the County's land use plans and zoning ordinances. This is confirmed by the County's land use determination of October 21, 2014.

Noise

16. The CCC Project will comply with the applicable noise standards in section 21-20 of the Citrus County Code and applicable Occupational Safety and Health

Administration requirements for on-site worker noise protection. During construction, potential noise impacts are expected to be minimal and mitigated by the distance between the construction area of the power block and the Site boundaries. During operation of the CCC Project, the primary continuous sources of noise will include noise emanating from the gas turbine generator, STGs, HRSGs, cooling towers, and rotating equipment such as pumps and fans. Other intermittent sources of noise will include the emergency diesel generator and emergency firewater pump. A noise modeling analysis performed for the Project concluded that noise levels will be well below the applicable Citrus County sound level limit of 75 dBA for adjacent industrial or manufacturing (i.e., existing mining and power plant use) land uses.

Florida Fish & Wildlife Conservation Commission

17. The potential for impacts to ecological resources is expected to be minor because the majority of the areas selected for development have already been either altered or otherwise disturbed through past logging activities, and the proposed construction activities are mostly planned to occur in areas lacking in sensitive wetland or upland environments. Moreover, Project construction is not expected to significantly impact regional populations of any endangered, threatened, or of special concern plant or wildlife species.

18. Human presence and noise associated with operating a power plant are impacts already present near the Site from existing CREC operations. Current wildlife usage of the Site reflects those species are already accustomed to these activities. It is

anticipated that the relatively minor increases in noise or human presence will not significantly affect wildlife usage of the Site and linear facilities corridor.

19. The potential effects of the existing CREC cooling water intakes and thermal discharges on aquatic species have been studied extensively over several decades. The relevant agencies have either concluded that there would not be substantial impacts or they have approved control plans to minimize impacts. The CCC Project's use of a closed-cycle re-circulating cooling system will result in significant reductions in cooling water withdrawals, which will produce commensurate reductions in adverse effects on aquatic species.

20. No significant impacts to off-Site aquatic resources are expected to occur as a result of the associated linear facility construction. Changes in local species populations are not expected. Any modifications to the existing intake structure along the intake canal will not involve in-water activities, so no impacts to aquatic resources are expected. Minor, temporary effects to water column and benthic biota may occur during installation of the new discharge structure. Construction will not, however, impact listed species because the construction will be of limited duration and localized in nearshore areas. No discernible effects to aquatic resources are likely to occur from operations, as the discharge is expected to meet ambient water quality standards at the point of discharge.

DEP

Air Emissions

22. The CCC Project design will incorporate state-of-the-art combined-cycle CTG technology and air quality emissions controls. The high thermal efficiency of the Mitsubishi Model 501GAC will reduce emissions per unit of output by producing each megawatt hour (MWh) of electricity with less fuel compared to conventional fossil fuel power generation facilities. This high thermal efficiency design will result in lower air emissions per MWh of electrical power generated. The CTG/HRSG units will be equipped with dry low-nitrogen oxide (NO_x) combustors and state-of-the art controls to minimize NO_x emissions. In addition, a selective catalytic reduction (SCR) system will be installed to further reduce NO_x emissions. Carbon monoxide (CO) and volatile organic carbon (VOC) emissions from the CTG/HRSG units will be controlled by use of advanced combustion equipment and operational practices to obtain efficient combustion. Highly efficient combustion will, in turn, result in low CO and VOC emissions rates. The use of pipeline-quality natural gas, along with highly efficient combustion, will limit particulate matter (PM/PM₁₀/PM_{2.5}) emissions from the CTG/HRSG units. Sulfur dioxide (SO₂) and sulfuric acid (H₂SO₄) mist emissions result from conversion of sulfur in the fuel and are minimized by the low sulfur content of the fuels proposed for the Project; i.e., pipeline-quality natural gas for the CTG/HRSG units, auxiliary boiler, and fuel gas dew point heater and Ultra low sulfur diesel (ULSD) fuel oil for the emergency diesel engines. The mechanical draft cooling towers will be equipped with high efficiency drift eliminators to minimize particulate emissions.

23. As a result of the CCC Project, overall emissions at CREC will decrease for all pollutants except VOCs and greenhouse gases (GHGs). The emissions decreases resulting from replacement of the existing coal-fired Units 1 and 2 with a high-efficiency, natural gas-fired combined-cycle CTG facility will have an overall positive impact on the air quality in and around the Crystal River area. GHG emissions will increase as a result of replacing the existing coal-fired Units 1 and 2 with high-efficiency, natural gas-fired combined-cycle CTG units. However, the proposed units will generate electrical power in a more efficient manner than the existing coal-fired units, thereby resulting in lower GHG emissions per unit of electricity produced (pound per MWh).

Separate Air Construction Permitting

24. DEP's Division of Air Resource Management regulates major air pollution sources in accordance with Florida's Prevention of Significant Deterioration (PSD) program, as defined in rule 62-212.400, Florida Administrative Code. For new major facilities, or for modifications to existing facilities, each registered air pollutant is reviewed for PSD applicability based on emissions thresholds known as Significant Emission Rates (SERs). A PSD netting analysis was conducted to determine the CCC Project's net air emissions increase (or decrease) based on the air emissions from all of the air emission units for the CCC Project and the air emissions decrease due to permanently shutting down CREC Units 1 and 2 in conjunction with the commercial operation of the CCC Project. Overall emissions for CREC will decrease for all pollutants with the exception of VOCs and GHGs. Due to the substantial reduction in actual emissions resulting from the future shutdown of CREC coal-fired Units 1 and 2,

the net change in emissions is less than the PSD significant emissions rate for all pollutants, except GHGs. A facility is not subject to PSD review solely based on CO₂ emissions. Accordingly, PSD review does not apply to the CCC Project.

25. On December 16, 2014, DEP issued a separate Air Construction Permit for the CCC Project. DEP has made a determination that the proposed CCC Project will comply with all applicable state and federal air pollution regulations as conditioned by the final Air Construction Permit. This determination is based on a technical review of the complete application, reasonable assurances provided by the applicant, the emissions standards determinations, review of the air quality impact analysis, and the conditions specified in the permit.

Cooling Water Intake and Discharge Considerations

26. The condenser cooling system for the proposed combined cycle units will consist of two closed-cycle, mechanical draft cooling towers for heat dissipation. Evaporative cooling towers operate by using the latent heat of water evaporation to cool re-circulating water. The facility also uses the waste heat from the combustion process to generate steam and electricity. Use of closed-cycle cooling and combined cycle generation will greatly reduce facility cooling water demand relative to an open cycle facility of the same electrical output. Furthermore, with the planned retirement of Units 1 and 2 (coordinated with commencement of commercial operations of the proposed CCC Project units) and elimination of the once-through cooling employed by these units, thermal loading to the receiving waters of Crystal Bay will be substantially reduced.

27. The CCC Project's use of a closed-cycle re-circulating cooling system will result in significant reductions in cooling water withdrawals, which will produce commensurate reductions in adverse environmental effects. The Project will also use seawater for flow augmentation to ensure compliance with the water quality criterion for chlorides in the cooling tower blowdown. When considered on the basis of electricity output (i.e., million gallons per day per megawatt [MGD/MW]), the generation provided by Units 1, 2, and 3 require 1.03 MGD/MW. In contrast, the proposed CCC Project will use cooling tower makeup and chloride augmentation water at a rate of 0.07 MGD/MW, an overall 93-percent reduction relative to a facility of the same output that uses once-through cooling, thus producing a commensurate decrease in impingement and entrainment rates.

28. Historically, the once-through cooling systems for CREC Units 1, 2, and 3 created a localized circulation pattern in Crystal Bay. The retirement of Unit 3 reduced once-through cooling by over 50 percent, which proportionately reduced the induced velocities in the intake and discharge canals. The combined withdrawal for CCC Project cooling tower makeup and blowdown augmentation water will be only approximately 10 percent of the former Unit 3 flows; therefore, the induced velocities in the canals will only marginally increase from current levels (i.e., with Unit 3's retirement). More importantly, with respect to biological effects, the addition of augmentation water in the CCC Project blowdown will result in a commingled discharge that approximates ambient water quality conditions.

Wastewater

29. Wastewaters generated by the CCC Project will include, but are not limited to, flows from plant service water systems and floor drains, blowdown from the HRSGs, raw water treatment filter backwash, neutralized condensate polisher regeneration wastes, and other residual waters from the demineralized water treatment systems. These wastewaters will be treated, as appropriate, and discharged to the appropriately sized on-site percolation pond. With the exception of cooling tower blowdown, wastewater will not be discharged to surface waters. The percolation pond system will be designed in accordance with all applicable nonprocedural requirements for percolation ponds.

30. The closed-cycle re-circulating cooling towers will be intermittently treated with biocides. Cooling tower blowdown also will be treated with sodium bisulfite to ensure that the total residual oxidants (TRO) meet regulatory standards. No impacts to surface waters will result from use of biocides due to routine dechlorination. Constituents in the ambient seawater used for cooling tower makeup that will be concentrated by evaporation in the cooling towers will be discharged at close to ambient concentrations by the addition of augmentation water used to reduce chloride levels in the blowdown.

31. Because no regional sanitary wastewater system is available in the area of the CCC Project, sanitary wastewaters generated by employees and visitors during operations will be disposed through the use of a package treatment plant with a land

application system. There will be no adverse impacts due to sanitary wastewater disposal during the Project operations.

Stormwater Management

32. The proposed Project includes an on-site stormwater management system designed in accordance with all applicable nonprocedural requirements, including Part IV of chapter 373, Florida Statutes, and chapter 62-330, Florida Administrative Code. The system will contain several stormwater ponds that serve different parts of the CCC Project. Each of the stormwater ponds will be designed to meet the state and local rules and regulations for stormwater management systems. For stormwater attenuation and treatment during construction, two wet detention ponds will be constructed for the construction laydown area. In addition, the stormwater management system includes two dry and three wet detention ponds to manage stormwater during both the construction and operation phases of the CCC Project.

Wetland Impacts

33. The CCC Site layout has been designed to avoid and minimize impacts to wetland communities of better quality to the greatest extent possible. However, given the distribution of on-Site wetland communities, it was not possible to entirely avoid wetlands. The Site layout is designed to preserve the larger, higher quality wetlands and impact only those that were smaller, isolated, and of lower quality. Almost all of the wetlands proposed for clearing are considered lower quality wetlands using DEP's Uniform Mitigation Assessment Methodology (UMAM). Generally, these wetlands are small, isolated, lower quality wetlands located within the eastern part of the Site, which

has been impacted by past silvicultural activities. Impacts to these wetlands will be offset by the purchase of mitigation bank credits.

34. The proposed linear facilities corridor follows along existing transmission line rights-of-way, therefore, many of the wetlands that will be crossed have already been impacted by previous activities. This will minimize disturbance associated with new construction, because the area has already been impacted. Any impacts due to new transmission or pipeline construction will be fully mitigated at an off-Site mitigation bank.

Solid Waste & Hazardous Substances

35. Solid waste generated during construction activities on-Site will be disposed of in accordance with applicable rules and regulations. Solid waste generated from right-of-way clearing and linear facility construction typically consists of cleared vegetation and construction debris. Duke Energy Florida may mulch or chip vegetation on-Site, which then may be spread on-Site or removed for use elsewhere. Alternatively, cleared vegetation may be burned in accordance with all state and local nonprocedural requirements. All non-vegetative solid waste will be collected and removed for off-Site disposal at the existing Citrus County landfill in compliance with all applicable regulations.

36. Nonhazardous and potentially hazardous wastes associated with the operation of the proposed CCC Project will be managed in accordance with applicable federal, state, and local regulations. The Project CTGs will be fired on clean natural gas, which does not produce substantial amounts of solid wastes. Also, the Project

operations will not require any on-Site solid waste management units/disposal areas. Solid waste, with the potential exception of material collected from the CCC cooling tower basins, will be disposed at a licensed solid waste facility (the existing Citrus County landfill), which has sufficient capacity to accept the relatively small amount of solid waste expected to be generated. Potentially hazardous wastes will be collected, managed, and temporarily stored in a designated hazardous waste storage area and periodically transported by a licensed hazardous waste hauler for disposal at an appropriately permitted facility.

Transmission Line Post-Construction Effects

37. The transmission lines and on-Site switchyard will comply with DEP Electric and Magnetic Fields (EMF) regulations. Any corona effect from the transmission facilities will be limited to Duke Energy Florida-owned property. Therefore, the transmission facilities are not anticipated to have any adverse impacts, including radio or television interference on neighboring parcels or off-Site land users. The transmission structures will be appropriately grounded to minimize induced ground currents. The proposed transmission lines will be designed to comply with all requirements of the National Electrical Safety Code.

Socioeconomic Impacts

38. Construction and operation of the Project will provide significant benefits to the economy of Citrus County and the State of Florida in terms of employment and revenues during construction and operation. Direct benefits from construction will include employment and payroll for an average monthly employment of approximately

450 workers, as well as the purchase of equipment and materials. Approximately \$600 million of construction expenditures for materials and services will occur during the Project construction period, with approximately \$90 million to be spent in the local area.

39. Direct operational benefits from the Project include tax revenues, employment for approximately 50 (up to 75) employees, and operational and maintenance expenditures. Annual expenditures for materials and services during operation will be approximately \$4 million. These expenditures will primarily occur locally for such items as chemicals, pumps, motors, valves, piping, equipment, and supplies and local subcontractors for maintenance of the plant, equipment, and machinery and vendor services for yard maintenance, mowing, waste removal, and equipment rental. Mechanical, chemical, and environmental consultants will be required during operation.

40. Project construction activities will require skilled labor. It is anticipated that the majority of construction wages paid by the Project will be spent within Citrus County and the surrounding region and will create additional demands for goods and services. As the money is spent, it will create a multiplier effect within the area, thereby generating additional jobs and earnings. The wages for permanent operation employees will likewise have a multiplier effect.

41. The total direct and indirect economic benefit of the construction of the Project is estimated to be \$633.57 million. With the CCC Project in operation, the anticipated direct and indirect economic output is expected to average \$13.3 million

annually, with the total direct and indirect economic output during the operational life of the Project expected to be approximately \$400 million.

42. The Project will employ approximately 50, but up to 75, employees at operation with an approximate payroll of \$7.5 million annually, assuming 50 permanent employees. The indirect economic impact in the region is estimated to be an additional \$1,797,750 in earnings annually.

43. Socioeconomic impacts to the area, including impacts on community services, associated with the Project construction and operation are expected to be minimal. Construction and operation of the Project will not negatively affect essential community services or facilities. Since, in all likelihood, the projected construction workforce will primarily commute from existing residences or temporary housing such as motels and apartments (with few permanent relocations anticipated), project-associated increases in spending are expected to benefit the local and regional economies, while not creating new demands on public services and facilities or housing. This was the experience encountered during the construction of CREC Units 4 and 5.

SWFWMD

Water Usage

44. The CCC Project will require groundwater for various plant process and potable water uses. Process and potable freshwater needs for the Project include demineralized water for steam cycle makeup, plant service water, wash water, fire protection water, and potable water. The freshwater needs will be provided through groundwater withdrawals from the three existing or replacement wells currently used for

CREC Units 1, 2, and 3 operations. The transition of water usage from Units 1, 2, and 3 to the CCC Project will not require an increase in water usage and, therefore, will not result in additional impacts to groundwater supplies.

45. The proposed source of drinking water for the CCC Project during operation is the Floridan aquifer. CREC Units 1, 2, and 3 receive water from three permitted water supply wells located east of the complex in the vicinity of U.S. 19. As proposed, the CCC Project would also obtain drinking water from those existing wells, but there will be no increase in water use allocations as a result of the CCC Project operations. Operation of the proposed CCC Project is not expected to have any adverse impacts on the quality or quantity of the drinking water source.

46. Some limited, temporary dewatering activities may be required during plant construction for the deeper foundations throughout the Site. Water withdrawn during the dewatering operations will be routed to the stormwater detention ponds. These temporary dewatering activities are not expected to adversely impact on- and off-Site surface water or groundwater resources. All dewatering will be conducted in accordance with applicable requirements. The construction of the transmission lines is not expected to require any dewatering.

FDOT

Traffic

48. During construction of the CCC Project, construction labor force and delivery traffic will use the existing roadway system in the vicinity of the Site, i.e., U.S. 19, West Power Line Street, and North Access Road. These same roads and

intersections were used by construction traffic during development of the CREC units and are adequate for the CCC Project construction traffic. Duke Energy Florida is not proposing, and the Project will not require, any road improvements to the existing roadway network.

49. Some temporary construction-related transportation impacts are expected as a result of the movement of construction workers, machines, and equipment to and from the Project Site. Initially, the construction traffic will involve fill and construction equipment deliveries. As the Site is prepared for development, these trips will be replaced with construction employee and supply delivery trips. Traffic analyses submitted by Duke Energy Florida demonstrate that project construction will not result in unacceptable traffic impacts.

Agency Reports & Proposed Conditions of Certification

51. As noted above, Citrus County, FDOT, FWCC, SWFWMD, and FDHR submitted Agency Reports, pursuant to section 403.507(2)(a)2, Florida Statutes. Each of these agencies recommended approval subject to recommended conditions of certification or did not object to certification.

52. As noted above, on March 13, 2015, DEP issued its PAR, pursuant to section 403.507, Florida Statutes. The PAR contains a compiled set of proposed Conditions of Certification for the Project, including conditions recommended by the reviewing agencies. In its PAR, DEP recommended approval of the CCC Project provided that Duke Energy Florida complies with the proposed Conditions of Certification in DEP's PAR, and those conditions are attached hereto as Exhibit A.

53. Duke Energy Florida agrees to the Conditions of Certification included in Exhibit A hereto.

CONCLUSIONS OF LAW

1. Under section 403.508(6), Florida Statutes, the ALJ granted the parties' request to cancel the certification hearing and relinquished jurisdiction to the Department. Therefore, the Department has jurisdiction to enter this Final Order. See § 403.509(1), Fla. Stat. (2014).

2. In accordance with section 403.5115, Florida Statutes, and chapter 62-17, Florida Administrative Code, proper notice was provided to all persons, entities and parties entitled to such notice, as well as to the general public. No third party intervened by the deadline for such intervention.

3. Under section 403.50665(2), Florida Statutes, Citrus County has determined that the CCC Project is consistent with the County's land use plans and zoning ordinances. The County's determination has not been disputed in accordance with section 403.50665(4), Florida Statutes. The Project is consistent with Citrus County's comprehensive plan and land development regulations under section 403.509(3)(c), Florida Statutes.

4. All necessary and required state, regional, and local governmental agencies participated in the certification process.

5. The PSC determined the need for the electric power to be supplied by the CCC Project as required by section 403.519, Florida Statutes. The PSC is the sole forum for the determination of the need for the Project under section 403.519. The

Project will meet the electrical energy needs of the state in an orderly, reliable, and timely fashion under section 403.509(3)(d), Florida Statutes.

6. The CCC Project is eligible for final certification based on the following: consideration of the criteria in section 403.509(3), Florida Statutes, and balancing the various factors set forth therein; the information provided by Duke Energy Florida in the site certification application and completeness responses; the information provided by DEP in its PAR; and subject to the Conditions of Certification attached hereto as Exhibit A,

7. Duke Energy Florida has provided reasonable assurances that operational safeguards for the CCC Project are technically sufficient for the public welfare and protection under section 403.509(3)(a), Florida Statutes.

8. The CCC Project will comply with applicable nonprocedural requirements of agencies, as required by section 403.509(3)(b), Florida Statutes. DEP's analysis concludes that the Project is not reasonably projected to cause or contribute to a violation of ambient air quality standards or water quality standards. No variances are proposed from any nonprocedural requirements of agencies for the Project.

9. Through the use of a site previously permitted for limerock mining located adjacent to an existing power plant and maximizing use of existing infrastructure, the CCC Project will minimize the adverse effects on human health, the environment and the ecology of land and its wildlife and the ecology of state waters and their aquatic life, in accordance with section 403.509(3)(f), Florida Statutes. Compliance with all

applicable nonprocedural requirements will minimize and avoid adverse effects on human health as well as upon the environment.

10. Certification of the CCC Project effects a reasonable balance between the need for the facility, as determined by the PSC, and the minimal impacts on air and water quality, fish and wildlife, water resources and other natural resources of the State that would result from the construction and operation of the Project, under section 403.509(3)(e), Florida Statutes.

11. Based upon the foregoing considerations, it is concluded that the CCC Project will serve and protect the broad interests of the public.

CONCLUSION

Having reviewed the matters of record and being otherwise duly advised, the Department concludes that, if constructed and operated in accordance with the evidence presented in the record and the attached Conditions of Certification, the Project will serve and protect the broad interests of the public and should be approved.

It is therefore ORDERED that:

A. Site certification of Duke Energy Florida's Citrus Combined Cycle Project, as described in the Site Certification Application and the record as a whole, is hereby APPROVED.

B. The Project is subject to and Duke Energy Florida shall comply with the Conditions of Certification that are attached as Exhibit A and are incorporated by reference herein.

JUDICIAL REVIEW

Any party to this proceeding has the right to seek judicial review of the Final Order pursuant to Section 120.68, F.S., by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Agency Clerk of the Department 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 District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Final Order is filed with the Agency Clerk of the Department.

DONE AND ORDERED this 5th day of May, 2015, in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



JONATHAN P. STEVERSON
Secretary

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

FILED ON THIS DATE PURSUANT TO § 120.52,
FLORIDA STATUTES, WITH THE DESIGNATED
DEPARTMENT CLERK, RECEIPT OF WHICH IS
HEREBY ACKNOWLEDGED.



CLERK

5-5-15
DATE

CERTIFICATE OF SERVICE

I CERTIFY that a copy of the foregoing Final Order was furnished by electronic

mail to:

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on this 5th day of May, 2015.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**



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**STATE OF FLORIDA
DEPARTMENT
OF
ENVIRONMENTAL PROTECTION**



Conditions of Certification

**Duke Energy Florida
Crystal River Energy Complex
Unit 3 Nuclear Plant
Unit 4 and Unit 5 Fossil Plant
Citrus Combined Cycle Plant
Units 1 and 2**

PA 77-09A3

XXXXXXXX

EXHIBIT A

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- Appendix I:**
- a. NPDES Permit FL0036366**
 - b. NPDES Permit FL0000159**

SECTION A: GENERAL CONDITIONS

SECTION A: GENERAL CONDITIONS (applicable to CREC Units 3-5 and CCCP Units 1-2)

I. SCOPE

A. Pursuant to sections 403.501-518, Florida Statutes (F.S.), the Florida Electrical Power Plant Siting Act (PPSA), this certification is issued to Duke Energy Florida, Inc. (DEF) as owner/operator of the Crystal River Energy Complex (CREC) and Citrus Combined Cycle Plant (CCCP).

CREC: Subject to the requirements contained in these Conditions of Certification (Conditions) DEF is authorized to operate one 1,080 MW (nominal) nuclear plant (Unit 3), and a 1,437 MW (nominal) facility consisting of two coal-fired units (Units 4 and 5) and ancillary equipment. These units are located on a 4,738-acre site which is located in Citrus County, Florida. UTM coordinates are: Zone 17; 334.3 km East; 3,204.5 km North. The Department recognizes that Nuclear Unit 3 and Fossil Units 4 and 5 are under the control of different divisions of DEF.

CCCP: Subject to the requirements contained in these Conditions of Certification (Conditions) DEF is authorized to operate two 820 MW (nominal) gas fueled combined cycle units (Units 1 and 2) and ancillary equipment. These units are located on a 400-acre site which is located in Citrus County, Florida.

Unless otherwise specified, DEF shall be responsible for the compliance with the conditions herein. The Department does not intend, solely by the March 2010 incorporation of these General Conditions, to require the retrofitting of existing certified facilities. Violation of any conditions specific to Units 3, 4, or 5 or CCCP Units 1 and 2 shall solely affect the license of the responsible generating units. These General Conditions shall be applicable to all areas of the certified site. Compliance with the General Conditions for all certified units shall be the responsibility of Duke Energy Florida. Any violation of a General Condition shall be a violation by Duke Energy Florida. Except where otherwise specified, existing CREC Units 1 and 2 are not subject to this certification or these conditions.

B. The Certified Facility includes but is not limited to the following major associated facilities;

- CREC Unit 4 & 5 coal storage area, coal storage area runoff treatment ponds and coal conveyor system;

- CREC Unit 4 & 5 Ash Storage Area;

- CREC Unit 4 & 5 Industrial Wastewater (IWW) Percolation Pond

- CREC Units 1, 2, and 3 and FGD IWW disposal Pond System;

- FGD Blowdown Treatment Ponds for Units 4 and 5;

- CCCP Intake, Augmentation, Blowdown, and Raw Water Pipelines;

- CCCP Discharge Structure and Modified CREC Unit 3 Intake Structure;

- CCCP Transmission Lines and on-Site Switchyard, including three 500-kV and two 230-kV transmission lines;

- CCCP Administration Building/Warehouse; and

- CCCP Cooling Tower System, including chiller system.

SECTION A: GENERAL CONDITIONS

C. These Conditions, unless specifically amended or modified, are binding upon the Licensee and shall apply to the construction, operation and maintenance of the Certified Facility. If a conflict should occur between the design criteria of this Certified Facility and the Conditions, the Conditions shall prevail unless amended or modified. In any conflict between any of these Conditions, the more specific condition governs.

D. Within 120 days after completion of construction of the electrical power plant as defined by 403.503(14), F.S., but excluding off-site linear and non-linear facilities, the Licensee shall provide to the Department in .pdf format a survey map signed by a professional land surveyor, or acceptable equivalent documentation such as an official legal description, delineating the boundaries of the Site, and an aerial photograph delineating the boundaries of the Site. The survey map and aerial photograph shall be identified as the Site Delineation and attached hereto as part of Attachment A.

The Licensee shall notify the Department of any change to the Site boundary depicted in the site delineation in Attachment A. The notification shall be accompanied by an updated land survey map (or legal description) and aerial photograph delineating the new boundaries of the Site for review by the Department. Absent the above description/delineation of the Site, the Department will consider the perimeter fence line of the property on which the electrical power plant's generating facility and on-Site support facilities are located to be the boundaries of the Site.

E. If both certified and uncertified facilities lie within the boundaries of the Site, the Licensee shall also comply with the requirements of this paragraph. Within 120 days after completion of construction of the plant and on-Site associated facilities, but excluding off-Site linear and non-linear associated facilities, the Licensee shall provide to the Department in .pdf format: a survey map signed by a professional land surveyor, or acceptable equivalent documentation such as an official legal description, delineating the boundaries of the Certified Areas within the Site; and an aerial photograph delineating the boundaries of the Certified Areas within the Site. The boundaries of the Certified Areas within the Site shall include both the certified electrical power plant's generating facilities as defined in Section 403.503(28), F.S. and its on-Site certified associated facilities (including on-Site linear facilities) as defined by Section 403.503(7), F.S. The survey map and the aerial photograph shall be known as the Delineation of the Certified Area of the Site and attached hereto as part of Attachment A.

F. Within 120 days after completion of construction of any off-Site associated non-linear facilities, the Licensee shall provide to the Department in .pdf format; a survey map signed by a professional land surveyor, or acceptable equivalent documentation such as an official legal description, delineating the boundaries of the Certified Areas for each off-Site non-linear Certified Facility. The survey map(s) and aerial photographs shall be known as Delineation of the Certified Areas of the Off-Site Non-linear Facilities and attached hereto as part of Attachment A.

G. Within 180 days after completion of construction of any associated off-Site linear facilities, as defined by Section 403.503(7), F.S., the Licensee shall provide; an aerial photograph(s)/map(s) at a scale of at least 1:400, or acceptable equivalent documentation such as an official legal description or survey map(s) signed by a professional land surveyor, delineating the boundaries of the Certified Area(s), following acquisition of all necessary property interests

SECTION A: GENERAL CONDITIONS

and the corridor narrowing as described in Section 403.503(11), F.S., which shall be known as the Delineation of Off-Site Linear Facilities and attached as part of Attachment A.

Following any post-certification approvals that require a change to the boundaries of the Certified Area(s) depicted in the Delineation of Off-Site Linear Facilities in Attachment A, the Licensee shall submit an updated aerial photograph/map, survey map or legal description.

[Sections 403.511, F.S.; Rules 62-4.160(8) and 62-17.205(2), F.A.C.]

II. APPLICABLE DEPARTMENT RULES

The construction, operation and maintenance of the Certified Facility shall be in accordance with all applicable non-procedural provisions of F.S. and Florida Administrative Code (F.A.C.), including, but not limited to, the applicable non-procedural portions of the following regulations, except to the extent a variance, exception, exemption or other relief is granted in the final order of certification or in a subsequent modification to the Conditions, under any federal permit or as otherwise provided under Chapter 403:

Florida Administrative Codes:

- 18-2 (Management of Uplands Vested in the Board of Trustees)
- 18-14 (Administrative Fines for Damaging State Lands)
- 18-20 (Aquatic Preserves)
- 18-21 (Sovereign Submerged Lands Management)
- 62-4 (Permits)
- 62-17 (Electrical Power Plant Siting)
- 62-25 (Regulations of Stormwater Discharge)
- 62-150 (Hazardous Substance Release Notification)
- 62-160 (Quality Assurance)
- 62-204 (Air Pollution Control-General Provisions)
- 62-210 (Stationary Sources-General Requirements)
- 62-212 (Stationary Sources-Preconstruction Review)
- 62-213 (Operation Permits for Major Sources of Air Pollution)
- 62-214 (Requirements for Sources Subject to the Federal Acid Rain Program)
- 62-256 (Open Burning)
- 62-296 (Stationary Sources-Emission Standards)
- 62-297 (Stationary Sources-Emission Monitoring)
- 62-302 (Surface Water Quality Standards)
- 62-304 (Total Maximum Daily Loads)
- 62-330 (Environmental Resource Permitting)
- 62-340 (Delineation of the Landward Extent of Wetlands and Surface Waters)
- 62-342 (Mitigation Banks)
- 62-345 (Uniform Mitigation Assessment Method)
- 62-520 (Groundwater Classes, Standards, and Exemptions)
- 62-531 (Water Well Contractor Licensing Requirements)
- 62-532 (Water Well Permitting and Construction Requirements)
- 62-550 (Drinking Water Standards, Monitoring and Reporting)
- 62-555 (Permitting, Construction, Operation, and Maintenance of Public Water Systems)

SECTION A: GENERAL CONDITIONS

62-560 (Requirements for Public Water Systems That Are Out of Compliance)
62-600 (Domestic Wastewater Facilities)
62-601 (Domestic Wastewater Treatment Plant Monitoring)
62-604 (Collection Systems and Transmission Facilities)
62-610 (Reuse of Reclaimed Water and Land Application)
62-620 (Wastewater Facility and Activities Permitting)
62-621 (Generic Permits)
62-650 (Water Quality Based Effluent Limitations)
62-660 (Industrial Wastewater Facilities)
62-699 (Treatment Plant Classification and Staffing)
62-701 (Solid Waste Management Facilities)
62-710 (Used Oil Management)
62-730 (Hazardous Waste)
62-737 (Management of Spent Mercury-Containing Lamps and Devices Destined For Recycling)
62-740 (Petroleum Contact Water)
62-761 (Underground Storage Tank Systems)
62-762 (Aboveground Storage Tank Systems)
62-769 (Florida Petroleum Liability and Restoration Insurance Program)
62-777 (Contaminant Cleanup Target Levels)
62-780 (Contaminated Site Clean-Up Criteria)
62-814 (Electric and Magnetic Fields)
40D- 4 (Individual Environmental Resource Permits)
40D-8 (Water Levels and Rates of Flow)

III. REVISIONS TO DEPARTMENT STATUTES AND RULES

A. The Licensee shall comply with rules adopted by the Department subsequent to the issuance of the certification under the PPSA which prescribe new or stricter criteria, to the extent that the rules are applicable to electrical power plants. Except when express variances, exceptions, exemptions, or other relief have been granted, subsequently adopted Department rules which prescribe new or stricter criteria shall operate as automatic modifications to the certification.

B. Upon written notification to the Department, the Licensee may choose to operate the certified electrical power plant in compliance with any rule subsequently adopted by the Department which prescribes criteria more lenient than the criteria required by the terms and conditions in the certification which are not site-specific.

[Section 403.511(5)(b), F.S.; Rule 62-4.160(10), F.A.C.]

IV. DEFINITIONS

Unless otherwise indicated herein, the meaning of terms used herein shall be governed by the applicable definitions contained in Chapters 253, 373, 379 and 403, F.S., and any regulation adopted pursuant thereto. In the event of any dispute over the meaning of a term used in these Conditions which is not defined in such statutes or regulations, such dispute shall be resolved by reference to the most relevant definitions contained in any other state or federal

SECTION A: GENERAL CONDITIONS

statute or regulation or, in the alternative, by the use of the commonly accepted meaning. As used herein, the following shall apply:

A. “Application” as defined in Section 403.503(6), F.S. For purposes of this license “Application” shall also include materials submitted for petitions for modification to the Conditions of Certification, as well as supplemental applications.

B. “Associated Facilities” is defined by Section 403.503(7), F.S.

C. “Certified Area” means the area within the Sites in which the certified facilities are located. For off-Site non-linear associated facilities this shall mean the area within which the certified off-Site associated facility is located. For off-Site linear facilities this term shall mean the area encompassed by the boundaries of the certified corridors, until such time as all property interests required for ROWs have been acquired, after which time the term will include only the area within the final ROWs in accordance with Section 403.503(11).

D. “Certified Facility” or “Certified Facilities” means the certified electrical power generation facilities and all on- or off-site associated structures and facilities identified/described in the Application, in the final order of certification, or in a post-certification amendment or modification.

E. “DEO” means the Florida Department of Economic Opportunity.

F. “DEM” shall mean the Florida Division of Emergency Management.

G. “DEP” or “Department” means the Florida Department of Environmental Protection.

H. “DHR” means the Florida Department of State, Division of Historical Resources.

I. “DOT” means the Florida Department of Transportation.

J. “Emergency conditions” or “Emergency reporting” means urgent circumstances involving potential adverse consequences to human life or property as a result of weather conditions or other calamity.

K. “Feasible” or “practicable” means reasonably achievable considering a balance of land use impacts, environmental impacts, engineering constraints, and costs.

L. “FWC” means the Florida Fish and Wildlife Conservation Commission.

M. “Licensee” means an applicant that has obtained a certification order for the subject project.

N. “NPDES permit” means a federal National Pollutant Discharge Elimination System permit issued by DEP in accordance with the federal Clean Water Act.

O. “Post-certification submittal” shall mean a submittal made by the Licensee pursuant to a Condition of Certification.

P. “PSD permit” means a federal Prevention of Significant Deterioration air emissions permit issued by DEP in accordance with the federal Clean Air Act.

Q. “WRPC” means the Withlacoochee Regional Planning Council.

SECTION A: GENERAL CONDITIONS

R. “ROW” means the right-of-way to be selected by the Licensee within the certified corridor in accordance with the Conditions of Certification and as defined in Section 403.503(27), F.S.

S. “Site” as defined in Section 403.503(28).

T. “State water quality standards” shall mean the numerical and narrative criteria applied to specific water uses or classifications set forth in Chapter 62-302, F.A.C.

U. “Surface Water Management System” or system means a stormwater management system, dam, impoundment, reservoir, appurtenant work, or works, or any combination thereof. The terms “surface water management system” or “system” include areas of dredging or filling, as those terms are defined in Sections 373.403(13) and (14), F.S.

V. “SWD” shall mean the DEP southwest district office.

W. “SWFWMD” means the Southwest Florida Water Management District.

X. “Title V permit” means a federal permit issued by DEP in accordance with Title V provisions of the federal Clean Air Act.

Y. “Wetlands” shall mean those areas meeting the definition set forth in Section 373.019(27), F.S., as delineated pursuant to Chapter 62-340, F.A.C.

V. DEPARTMENT PERMITS UNDER FEDERAL PROGRAMS

This certification is not a waiver of any other Department approval that may be required under federally delegated or approved programs. The provisions of the following federal permits shall be conditions of this certification to the extent the provisions of those permits apply to the Certified Facility(ies). The Licensee shall comply with the applicable provisions and limitations set forth in the permits listed below, and as those provisions may be modified, amended, or renewed in the future by the Department. The Department may consider a violation of any of these permits as a violation of this license.

A. Air

All Air Construction Permits and Title V Air Operation Permits in force for the certified parts of facility ID 0170004 are incorporated by reference herein as part of these Conditions. The Air Construction Permits and Title V Air Operation Permits can be found at this web link using the facility ID number listed above:

<http://appprod.dep.state.fl.us/air/emission/apds/default.asp>.

B. Water

1. NPDES Industrial Wastewater Discharge

Any discharges during operation shall be in accordance with all applicable provisions of NPDES permit FL0036366 and NPDES permit FL0000159 (both attached as Appendix I) as well as any subsequent modifications, amendments and/or renewals.

[Chapter 62-620, F.A.C.]

2. NPDES Generic Permit for Stormwater Discharge from Large and Small Construction Activities (CGP)

SECTION A: GENERAL CONDITIONS

a. Any storm water discharges associated with construction activities on the site shall be in accordance with all applicable provisions of Chapter 62-621, F.A.C. Prior to commencing construction activities on the site that:

- contribute to stormwater discharges to surface waters of the State or into a municipal separate storm sewer system (MS4); and
- disturb one or more acres of land (less than one acre if the activity is part of a larger common plan of development);

b. A Generic Permit for Stormwater Discharge from Large and Small Construction Activities (CGP) must be obtained as applicable.

[Section 403.0885, F.S.; Rule 62-621.300, F.A.C.]

3. NPDES Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity.

Any storm water discharges associated with industrial activity shall be in accordance with all applicable provisions of Chapter 62-621, F.A.C. For industrial activities at the site that result in a discharge of stormwater to surface waters of the State or into a municipal separate storm sewer system (MS4), and fall under any one of the 11 categories of industrial activities identified in 40 CFR 122.26(b)(14), a Multi-Sector Generic Permit for Stormwater Discharge Associated with Industrial Activity (MSGP) shall be obtained as applicable.

[Section 403.0885, F.S.; Rule 62-621.300, F.A.C.]

4. NPDES Generic Permit for Discharge of Produced Ground Water from any Non-Contaminated Site Activity

Prior to discharge of produced ground water from any non-contaminated site activity which discharges by a point source to surface waters of the State, as defined in Chapter 62-620, F.A.C., the Licensee must first obtain coverage under the Generic Permit for Discharge of Produced Ground Water From any Non-Contaminated Site Activity. Similarly, if the activity involves a point source discharge of ground water from a petroleum contaminated site, the Licensee must obtain coverage under the Generic Permit for discharge from petroleum contaminated sites. Before discharge of ground water can occur from such sites, analytical tests on samples of the proposed untreated discharge water shall be performed as required by Rule 62-621.300, F.A.C., to determine if the activity can be covered by either permit.

If the activity cannot be covered by either generic permit, the Licensee shall apply for an individual wastewater permit at least ninety (90) days prior to the date discharge to surface waters of the State is expected. No discharge to surface water is permissible without an effective permit.

5. NPDES Generic Permit for Discharges from Concrete Batch Plants

Prior to discharges from concrete batch plants which meet the criteria specified in DEP Document 62-621.300(3)(a), (excluding Part III when using any new batch plants and excluding Part II when using any existing batch plants) the Licensee must first obtain coverage under the Generic Permit for Discharges from Concrete Batch Plants. This generic permit also constitutes authorization to construct and operate closed loop recycling vehicle/equipment washing facilities at concrete batch plants. New and existing concrete batch

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plants which do not qualify for coverage or do not choose to be covered under this generic permit shall apply for an individual wastewater permit on the appropriate form listed in Rule 62-620.910, F.A.C. and in the manner established in Chapter 62-620, F.A.C. DEP Document number 62-621.300(3)(a) contains specific design and operating requirements for discharges from wastewater and stormwater management systems at concrete batch plants.

[Section 403.0885, F.S.; Rule 62-621.300, F.A.C.]

VI. DESIGN AND PERFORMANCE CRITERIA

Certification, including these Conditions, is predicated upon preliminary designs, concepts, and performance criteria described in the site certification application (SCA) or in testimony and exhibits in support of certification. Final engineering design will be consistent and in substantial compliance with the preliminary information described in the SCA or as explained at the certification hearing (if any). Conformance to those criteria, unless specifically modified in accordance with Sections 403.516, 403.5315, 403.9418, F.S., and Rule 62-17.211, F.A.C., is binding upon the Licensee in the design, construction, operation and maintenance of the Certified Facility.

[Section 403.516, F.S.; Rule 62-17.211, F.A.C.]

VII. NOTIFICATION

A. If, for any reason, the Licensee does not comply with or will be unable to comply with any condition or limitation specified in this license, the Licensee shall immediately provide the appropriate DEP District Office 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 recurrence of the noncompliance. The Licensee 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 certification.

All notifications which are made in writing shall additionally be immediately provided to the Siting Coordination Office (SCO) via email to SCO@dep.state.fl.us.

[Rule 62-4.160(8), F.A.C.]

B. The Licensee shall promptly notify the SCO in writing of any previously submitted information concerning the Certified Facility that is later discovered to be inaccurate.

[Rule 62-4.160(15), F.A.C.]

C. Unless specified otherwise in this license, all reports and notifications required by the Groundwater Monitoring, Operation and Monitoring Requirements (GWMOMR) (Attachment H), including 24-hour notifications, shall be submitted to or reported to the Southwest District Office at the address specified below:

Southwest District Office
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Phone Number- (813) 470-5700

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FAX Number- (813) 470-5995

[Section 403.5112, F.S.]

VIII. EMERGENCY CONDITION NOTIFICATION AND RESTORATION

If the Licensee is temporarily unable to comply with any of the conditions of the License due to breakdown of equipment or destruction by hazard of fire, wind or following an emergency as defined by Sections 252.34(3), (6), (7) or (9), F.S., the Licensee shall immediately notify the Department. Notification shall include pertinent information as to the cause of the problem, and what steps are being taken to correct the problem and to prevent its recurrence, and where applicable, the owner's intent toward reconstruction of destroyed facilities. Such notification does not release the Licensee from any liability for failure to comply with Department rules. Any exceedances and/or violations recorded during emergency conditions shall be reported as such, but the Department acknowledges that it intends to use its enforcement discretion during this timeframe. This acknowledgement by the Department does not constitute a waiver or variance from any requirements of any federal permit. Relief from any federal agency must be separately sought.

[Section 62-4.130, F.A.C.]

IX. CONSTRUCTION PRACTICES

A. Local Building Codes

Subject to the conditions set forth herein, this certification constitutes the sole license of the state and any agency as to the approval of the location of the site and any associated facility and the construction and operation of any certified facility. The Licensee is not required to obtain building permits for certified facilities. However, this certification shall not affect in any way the right of any local government to charge appropriate fees or require that construction of installations used by the electric utility that are not an integral part of a generating plant, substation, or control center (such as office buildings, warehouses, garages, machine shops, and recreational buildings) be in compliance with applicable building construction codes. Fees and compliance with construction codes associated with installations used by the electrical utility that are an integral part of a generating plant, substation, or control center are outside the scope of this certification.

[Section 403.511(4), F.S.]

B. Open Burning.

Prior to open burning in connection with land clearing, the Licensee shall seek authorization from the Florida Forest Service in accordance with the requirements of Chapters 62-256 and 5I-2, F.A.C. the Florida Forestry Service

[Chapters 5I-2 and 62-256, F.A.C.]

C. Flood Control Protection

The certified facilities shall be constructed in a manner that complies with any applicable non-procedural County flood protection requirements. However, existing facilities are not required to be modified to comply with such flood control protection standards.

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D. Vegetation

For areas located in any Florida Department of Transportation (DOT) ROW, Chapter 7 of the Florida DOT *Utility Accommodation Manual* available on the DOT website (<http://www2.dot.state.fl.us/proceduraldocuments/procedures/bin/710020001/Chapter-7.pdf>) shall serve as guidelines for best management practices.

E. Existing Underground Utilities

The Licensee must follow all applicable portions of the Underground Facility Damage Prevention and Safety Act, Chapter 556, F.S. The Licensee shall provide the affected local government and the Siting Office with copies of valid tickets obtained from Sunshine State One Call of Florida upon request. Tickets shall be available for request until the underground work is complete for the affected area.

[Chapter 556, F.S.]

F. Electric and Magnetic Fields (EMF).

Any transmission lines that are associated facilities shall comply with the applicable requirements of Chapter 62-814, F.A.C.

[Chapter 62-814, F.A.C.]

G. Existing Wells

Any existing wells to be impacted in the path of construction of non-linear Certified Facilities that will no longer be used shall be abandoned by a licensed well contractor. All abandoned wells shall be filled and sealed in accordance with subsection 62-532.500(5), F.A.C., or with the rules of the authorizing agency, or consistent with these Conditions.

[Rules 62-532.400 and 62-532.500(5), F.A.C.]

H. Abandonment of Existing Septic Tanks

Any existing septic tanks to be impacted by construction and that will no longer be used shall be abandoned in accordance with Rule 64E-6.011, F.A.C., unless these Conditions provide otherwise.

X. RIGHT OF ENTRY

A. Upon presentation of credentials or other documents as may be required by law, the Licensee shall allow authorized representatives of the Department or other agencies with jurisdiction over a portion of the certified facility and any authorized off-site mitigation/compensation or otherwise associated areas:

1. At reasonable times, to enter upon the Certified Facility in order to monitor activities within their respective jurisdictions for purposes of assessing compliance with this certification; or
2. During business hours, to enter the Licensee's premises in which records are required to be kept under this certification; and to have access to and copy any records required to be kept under this certification.

B. When requested by the Department, on its own behalf or on behalf of another agency with regulatory jurisdiction, the Licensee shall within 10 working days, or such longer

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period as may be mutually agreed upon by the Department and the Licensee, furnish any information required by law, which is needed to determine compliance with the certification.

[Rules 62-4.160(7)(a) and 62-4.160(15), F.A.C.]

XI. DISPUTE RESOLUTION

A. General

If a situation arises in which mutual agreement between either the Department and the Licensee, or, the Department and an agency with substantive regulatory jurisdiction over a matter cannot be reached, the Department can act as a facilitator in an attempt to resolve the issue. If the dispute is not resolved in this initial informal meeting, Licensee may request a second informal meeting in which both Licensee and the agency with substantive regulatory jurisdiction over the matter at issue can participate in an attempt to resolve the issue. If, after such meetings, a mutual agreement cannot be reached between the parties, then the matter shall be referred to the Division of Administrative Hearings (DOAH) for disposition in accordance with the provisions of Chapter 120, F.S. The Licensee or the Department may request DOAH to establish an expedited schedule for the processing of such a dispute. Any filing with DOAH shall state with particularity the specific project and geographic location to which the dispute relates. Work unrelated to the specific project and in areas other than the location to which the dispute relates will not be affected by the dispute.

B. Modifications

If written objections are filed regarding a modification, and the objections address only a portion of a requested modification, then the Department shall issue a Final Order approving the portion of the modification to which no objections were filed, unless that portion of the requested modification is substantially related to or necessary to implement the portion to which written objections are filed.

C. Post-Certification Submittals

If it is determined, after assessment of a post-certification submittal, that compliance with the Conditions will not be achieved for a particular portion of a submittal, the Department may make a separate assessment of other portions of the submittal, unless those portions of the submittal are substantially related to or necessary to implement that portion for which it has been determined that compliance with the Conditions will not be achieved.

[Sections 120.57, F.S. and Rule 62-17.211, F.A.C.]

XII. SEVERABILITY

The provisions of this certification are severable, and if any provision of this certification or the application of any provision of this certification to any circumstance is held invalid, the remainder of the certification or the application of such provision to other circumstances shall not be affected thereby.

XIII. ENFORCEMENT

A. The terms, conditions, requirements, limitations and restrictions set forth in these Conditions are binding and enforceable pursuant to Sections 403.141, 403.161, 403.514, 403.727, and 403.859 through 403.861, F.S., as applicable. Any noncompliance by the Licensee with these Conditions constitutes a violation of Chapter 403, F.S., and is grounds for

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enforcement action, license termination, license revocation, or license revision. The Licensee is placed on notice that the Department may review this certification periodically and may initiate enforcement action for any violation of these Conditions.

B. All records, notes, monitoring data and other information relating to the construction or operation of the Certified Facility which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the Certified Facility and arising under the Florida Statutes or Department rules, subject to the restrictions in Sections 403.111 and 403.73, F.S. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

[Sections 403.121, 403.131, 403.141, 403.151, 403.161, and 403.514, F.S.; Rules 62-4.160(1) and 62-4.160(9), F.A.C.]

XIV. REVOCATION OR SUSPENSION

The certification shall be final unless revised, revoked or suspended pursuant to law. This certification may be suspended or revoked pursuant to Sections 403.512, F.S. This certification is valid only for the specific processes and operations identified in the SCA and approved in the final order of certification and indicated in the testimony and exhibits in support of certification, or approved in a subsequent amendment or modification of the certification. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this approval may constitute grounds for revocation and enforcement action by the Department. Any enforcement action, including suspension and revocation, shall only affect the portion(s) of the Certified Facility that are the cause of such action, and other portions of the Certified Facility shall remain unaffected by such action.

[Sections 403.512, F.S.; Rule 62-4.160(2), F.A.C.]

XV. REGULATORY COMPLIANCE

As provided in Sections 403.087(7) and 403.722(5), F.S., except as specifically provided in the final order of certification, a subsequent modification or amendment, or these conditions, the issuance of this license does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This license is not a waiver of or approval of any other Department license/permit that may be required for other aspects of the Certified Facility which are not addressed in this license. This license does not relieve the Licensee from liability for harm or injury to human health or welfare, animal, or plant life, or public or private property caused by the construction or operation of the Certified Facilities, or from penalties therefore.

[Rules 62-4.160(3) and 62-4.160(5), F.A.C.]

XVI. CIVIL AND CRIMINAL LIABILITY

Except to the extent a variance, exception, exemption or other relief is granted in the final order of certification, in a subsequent modification to these Conditions, or as otherwise provided under Chapter 403, F.S., this certification does not relieve the Licensee from civil or

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criminal penalties for noncompliance with any conditions of this certification, applicable rules or regulations of the Department, or any other state statutes or regulations which may apply.

[Sections 403.141, 403.161, 403.511, F.S.]

XVII. USE OF STATE LANDS

A. Except as specifically provided in the final order of certification or these conditions, the issuance of this license conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless 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.

B. If any portion of the Certified Facility is located on sovereign submerged lands, state-owned uplands, or within an aquatic preserve, then the Certified Facility must comply with the applicable portions of Chapters 18-2, 18-20, and 18-21, F.A.C., and Chapters 253 and 258, F.S. Except as specifically provided in the final order of certification or these conditions, if any portion of the Certified Facility is located on sovereign submerged lands, the Licensee must submit section F of the Joint Application for Environmental Resource Permits to the Department prior to construction. If any portion of the Certified Facility is located on state-owned uplands, the Licensee must submit an Upland Easement Application to the Department prior to construction.

C. If a portion of the Certified Facility is located on sovereign submerged lands or state-owned uplands owned by the Board of Trustees of the Internal Improvement Trust Fund, pursuant to Article X, Section 11 of the Florida Constitution, then the proposed activity on such lands requires a proprietary authorization. Under such circumstances, the proposed activity is not exempt from the need to obtain a proprietary authorization. Unless otherwise provided in the final order of certification or these conditions, the Department has the responsibility to review and take action on requests for proprietary authorization in accordance with Rules 18-2.018 or 18-21.0051, F.A.C.

D. The Licensee is hereby advised that Florida law states: “No person shall commence any excavation, construction, or other activity involving the use of sovereign or other state lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or the Department of Environmental Protection under Chapter 253, F.S., until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use.” Pursuant to Chapter 18-14, F.A.C., if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to \$10,000 per offense.

E. The terms, conditions, and provisions of any required lease or easement issued by the State shall be met. Any construction activity associated with the Certified Facility shall not commence on sovereign submerged lands or state owned uplands, title to which is held by the Board of Trustees of the Internal Improvement Trust Fund, until all required lease or easement documents have been executed.

[Chapters 253 and 258, and Sections 403.511, F.S.; Chapter 10.1.1. of the ERP Applicant’s Handbook Volume I.; Chapters 18-2, 18-14, 18-21, 62-340, and subsections 62-330.060(1) and

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62-4.160(4), F.A.C.; Upland Easement Application and Section F of the Environmental Resource Permit Application Form.]

XVIII. PROCEDURAL RIGHTS

Except as specified in Chapter 403, F.S., or Chapter 62-17, F.A.C., no term or condition of certification shall be interpreted to preclude the post-certification exercise by any party of whatever procedural rights it may have under Chapter 120, F.S., including those related to rule-making proceedings.

[Sections 403.511(5)(c), F.S.]

XIX. AGENCY ADDRESSES FOR POST-CERTIFICATION SUBMITTALS AND NOTICES

Where a condition requires post-certification submittals and/or notices to be sent to a specific agency, the following agency addresses shall be used unless the Conditions specify otherwise or unless the Licensee and the Department are notified in writing of an agency's change in address for such submittals and notices:

Florida Department of Environmental Protection
Siting Coordination Office, MS 5500
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Florida Department of Environmental Protection
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Florida Department of Economic Development
Office of the Secretary
107 East Madison St.
Tallahassee, Florida 32399-2100

Florida Fish & Wildlife Conservation Commission
Office of Policy and Stakeholder Coordination
620 South Meridian Street
Tallahassee, Florida 32399-1600

Florida Department of Transportation
District Administration
605 Suwannee Street
Tallahassee, Florida 32399-0450

Florida Department of Agriculture and Consumer Services
Division of Forestry
3125 Conner Boulevard
Tallahassee, Florida 32399-1650

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Withlacoochee Regional Planning Council
Office of the Executive Director
1241 S.W. 10th Street
Ocala, Florida 34474-2798

Southwest Florida Water Management District
Office of General Counsel
2379 Broad Street
Brooksville, Florida 34064-6899

Florida Department of State
Division of Historical Resources
500 S. Bronough Street
Tallahassee, Florida 32399-0250

Citrus County
3600 W. Sovereign Path, Suite 140
Lecanto, Florida 34461

[Sections 403.511, 403.531, and 403.9416, F.S.]

XX. PROCEDURES FOR POST-CERTIFICATION SUBMITTALS

A. Purpose of Submittals

Conditions which provide for the post-certification submittal of information to DEP or other agencies by the Licensee are for the purpose of facilitating the agencies' monitoring of the effects arising from the location of the Certified Facility and the construction and maintenance of the Certified Facility. This monitoring is for DEP to assure, in consultation with other agencies with applicable regulatory jurisdiction, continued compliance with these Conditions, without further agency action. A submittal of information or determination of compliance pursuant to a post-certification submittal under this Condition does not provide a point of entry for a third party.

B. Filings

All post-certification submittals of information by Licensee are to be filed with the SCO, the SWD, and any other agency that is entitled to receive a submittal pursuant to these Conditions. The SCO shall be copied on all post-certification submittals in electronic .pdf format only, unless otherwise requested, via email to SCO@dep.state.fl.us. Each submittal shall clearly identify the Certified Facility name, PA#, and the condition number/s (i.e. Section X, Condition XX.y.(z)) requiring the submittal. As required by Section 403.5113(2), F.S., each post-certification submittal will be reviewed by each agency with regulatory authority over the matters addressed in the submittal on an expedited and priority basis.

[Section 403.5113, F.S., Rule 62-17.191(3), F.A.C.]

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C. Completeness

DEP shall review each post-certification submittal for completeness. This review may include consultation with the other agency/ies receiving the post-certification submittal with regulatory jurisdiction over the matter addressed in the submittal. DEP's finding of completeness shall specify the area of the Certified Facility affected, and shall not delay further processing of the post-certification submittal for non-affected areas.

If any portion of a post-certification submittal is found to be incomplete, the Licensee shall be so notified. Failure to issue such a notice within 30 days after filing of the submittal shall constitute a finding of completeness. Subsequent findings of incompleteness, if any, shall address only the newly filed information.

[Rule 62-17.191(1)(c) 2, F.A.C.]

D. Interagency Meetings

DEP may conduct an interagency meeting with other agencies that received a post-certification submittal. The purpose of such an interagency meeting shall be for the agencies with regulatory jurisdiction over the matters addressed in the post-certification submittal to discuss whether compliance with these Conditions has been provided. Failure of DEP to conduct an interagency meeting or failure of any agency to attend an interagency meeting shall not be grounds for DEP to withhold a determination of compliance with these Conditions nor to delay the timeframes for review established by these Conditions. At DEP's request, the Licensee shall conduct a field inspection with the agency representative in conjunction with the interagency meeting.

E. Determination of Compliance

DEP shall give written notification within 90 days, to the Licensee and the other agency/ies to which the post-certification information was submitted of DEP's determination of whether there is demonstration of compliance with these Conditions. If it is determined that compliance with the Conditions has not been provided, the Licensee shall be notified with particularity of the deficiencies and possible corrective measures suggested. Failure to notify Licensee in writing within 90 days of receipt of a complete post-certification submittal shall constitute a determination of compliance. A post-certification compliance review may be the basis for initiating modifications to the relevant condition or to other related conditions.

F. Commencement of Construction

If DEP does not object within the time period specified in paragraph E. above, Licensee may begin construction pursuant to the terms of these Conditions and the subsequently submitted construction details.

G. Revisions to Design Previously Reviewed for Compliance

If revisions to site-specific designs occur after submittal, the Licensee shall submit revised plans prior to construction for review in accordance with the post-certification process specified in this Condition.

H. Variation to Submittal Requirements

DEP, in consultation with the appropriate agencies that have regulatory authority over a matter to be addressed in a post-certification submittal, and Licensee may jointly

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agree to vary any of the post-certification submittal requirements, provided the information submitted is sufficient to provide reasonable assurances of compliance with these Conditions.

[Sections 120.569, 373.413, 373.416, 403.511, F.S.; Rules 62-17.191 and 62-17.205, F.A.C.]

XXI. POST-CERTIFICATION SUBMITTAL REQUIREMENTS SUMMARY

Within 90 days after certification, and within 90 days after any subsequent modification or certification, the Licensee shall provide the Department a complete summary of those post-certification submittals that are identified in these Conditions when due-dates for the information required of the Licensee have been identified. A summary shall be provided as a separate document for each transmission line, if any. Such submittals shall include, but are not limited to, monitoring reports, management plans, wildlife surveys, etc. The summary shall be provided to the SCO, in a sortable spreadsheet, via email, in the format identified below or equivalent. For subsequent modifications and certifications, a Post-Certification Submittal Requirements Summary shall be required for only those resulting in new or altered post-certification requirements.

Condition Number	Requirement and Timeframe	Due Date	Name of Agency or Agency Subunit to whom the submittal is required to be provided

[Section 403.5113, F.S.; Rule 62-17.191(3), F.A.C.]

XXII. POST CERTIFICATION AMENDMENTS

If, subsequent to certification, the Licensee proposes any material change to the SCA and revisions or amendments thereto, as certified, the Licensee shall submit a written request for amendment and a description of the proposed change to the SCA to the Department. Within 30 days after the receipt of a complete request for an amendment, the Department shall determine whether the proposed change to the application requires a modification to the Conditions.

A. If the Department concludes that the change would not require a modification to the Conditions, the Department shall provide written notification of the approval of the proposed amendment to the Licensee, all agencies, and all other parties to the Certification.

B. If the Department concludes that the change would require a modification to the Conditions, the Department shall provide written notification to the Licensee that the proposed change to the SCA requires a request for modification pursuant to Sections 403.516, F.S.

[Section 403.5113, F.S.]

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XXIII. MODIFICATION OF CERTIFICATION

A. Pursuant to Section 403.516(1)(a), F.S., and Rule 62-17.211, F.A.C., the Siting Board hereby delegates the authority to the Department to modify any Condition which would not otherwise require approval by the Siting Board, after notice and receipt of no objection by a party to the certification within 45 days after notice by mail to the party's last address of record, and if no other person whose substantial interests will be affected by the modification objects in writing within 30 days of public notice.

B. The Department may modify Conditions, in accordance with Section 403.516(1)(b), F.S., which are inconsistent with the terms of any subsequent and separately DEP-issued permits, permit amendments, permit modifications, or permit renewals under a federally delegated or federally approved permit program. Such modification may be made without further notice if the matter has been previously noticed under the requirements for any federally delegated or approved permit program.

C. In accordance with Section 403.516(1)(c), F.S., the Licensee may file a petition for modification with the Department, or the Department may initiate the modification upon its own initiative.

D. Any anticipated facility expansions, production increases, or process modifications which may result in new, different or increased discharge or emission of pollutants, change in fuel, or expansion in generating capacity must be reported by submission of an appropriate request for an amendment, modification, or certification.

E. Any anticipated facility change that results in a change to the Site Delineation or the Delineation of the Certified Area, attached hereto as part of Attachment A (Maps), must be accompanied by a map or aerial photo showing the proposed new boundaries of the site and/or certified area. Within 120 days after completion of construction of the approved facility change, the Licensee shall provide the information required by Section A. General Conditions, Condition I. Scope, paragraphs D, E, F, or G, as appropriate.

[Section 403.516, F.S.; Rule 62-17.211, F.A.C.]

XXIV. COASTAL ZONE CONSISTENCY

Pursuant to Sections 373.428 and 403.511, F.S., certification of the facility constitutes the State's concurrence that the licensed activity or use is consistent with the federally approved program under the Florida Coastal Management Act.

[Sections 373.428, 380.23 and 403.511(7), F.S.]

XXV. TRANSFER OF CERTIFICATION

A. This certification is transferable in whole or in part, upon Department approval, to an entity determined to be able to comply with these Conditions. A transfer of certification of all or part of the Certified Facility may be initiated by the Licensee's filing of a Notice of Intent to Transfer Certification with the Department. The notice of intent shall identify the intended new certification holder or Licensee and the identity of the entity responsible for compliance with the certification. Upon the filing with the Department of a written agreement from the intended Licensee/Transferee to abide by all Conditions of Certification and applicable laws and regulations, the transfer shall be approved unless the Department objects to the transfer on the grounds of the inability of the new Licensee to comply with the Conditions of Certification,

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specifies in writing its reasons therefore, and gives notice and opportunity to petition for a Section 120.57, F.S., administrative hearing. Upon approval, the Department will initiate a modification to the Conditions to reflect the change in ownership in accordance with Rule 62-17.211, F.A.C.

B. In the event of the dissolution of a certified Licensee, the Department may transfer certification to successor entities which are determined to be competent to construct, operate and maintain the Certified Facility in accordance with the conditions of certification and which are proper applicants as defined by the PPSA, TLSA and/or NGPSA. Upon determination that such a successor entity complies with the above, the Department will initiate a modification to the Conditions to reflect the change in ownership in accordance with Rule 62-17.211, F.A.C.

[Rule 62-17.211, F.A.C.]

XXVI. LABORATORIES AND QUALITY ASSURANCE

Chemical, physical, biological, microbiological and toxicological data collected as a requirement of these Conditions must be reliable, and collected and analyzed by scientifically sound procedures. Unless otherwise specified in these Conditions, the Licensee shall adhere to the minimum field and laboratory quality assurance, methodological and reporting requirements of the Department as set forth in Chapter 62-160, F.A.C. Standard Operating Procedures can be downloaded from the following website: <http://www.dep.state.fl.us/labs/qa/sops.htm>.

[Rule 62-160, F.A.C.]

XXVII. ENVIRONMENTAL RESOURCES

A. General

1. Submittals for Construction Activities

a. Prior to the commencement of construction of new facilities and/or associated facilities the Licensee shall provide to the SWD for review, all information necessary for a complete *Joint Application for Environmental Resource Permit* (ERP), DEP Forms 62-330.060, F.A.C.. Information may be submitted by discrete portions of the Certified Facilities for a determination of compliance with these COCs.

This form may: a) have been submitted concurrently with a SCA; b) be submitted as part of an amendment request or a petition for modification; or c) be submitted as a post-certification submittal following approval of a project through certification, modification or amendment. Such ERP submittals, once received, shall be reviewed in accordance with the non-procedural standards and criteria for issuance of an ERP, including all the provisions related to reduction and elimination of impacts, conditions for issuance, additional conditions for issuance, and mitigation contained in Chapters 62-330, F.A.C., as applicable unless otherwise stated in these Conditions.

Those forms submitted as part of a SCA, an amendment, or modification, shall be processed concurrently with, and under the respective certification, amendment, or modification procedures. Those forms submitted as a post-certification submittal (after certification, modification, or amendment and prior to construction) shall be processed in accordance with Section A. General Conditions, Condition XX. Procedures for Post-Certification Submittals.

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No construction shall commence on a Project feature, or in a particular segment for a linear facility, until the Department has determined that there is a demonstration of compliance with these Conditions. For post-certification submittal reviews, the Department's determination is governed by Section A. General Conditions, Condition XX. Procedures for Post-Certification Submittals.

[Section 373.416, F.S.; Chapters 62-330 and 62-340, F.A.C.]

2. Construction, operation and maintenance of the proposed project (including any access roads and structures constructed within wetlands and other surface waters, and/or associated facilities) shall satisfy any applicable non-procedural requirements in the Department rules. [Section 373.414(1)(a), F.S.]

3. Any delineation of the extent of a wetland or other surface water submitted as part of the DEP ERP Application Form required by Subparagraph A.1.a. above, including plans or other supporting documentation, shall not be considered binding on the Department unless a specific condition of this Certification or a formal wetlands jurisdictional determination under Section 373.421(2), F.S., provides otherwise.

[Sections 373.421, 403.504, F.S.]

B. Surface Water Management Systems

1. Information regarding surface water management systems (SWMS) will be reviewed for consistency with the applicable non-procedural requirements of Part IV of Chapter 373, F.S., following submittal of Form 62-330.060(1) F.A.C., to the SWD.

2. All construction, operation, and maintenance of the SWMS(s) for the certified facilities shall be as set forth in the plans, specifications and performance criteria contained in the SCA and other materials presented during the certification proceeding, post-certification submittals, and as otherwise approved. If specific requirements are necessary for construction, operation and/or maintenance of an approved SWMS, those requirements shall be incorporated into a SWMS Plan for that system and included in Attachment B (Surface Water Management System Plan). Any alteration or modification to the SWMS Plan or the SWMS as certified requires prior approval from the Department.

3. To allow for stabilization of all disturbed areas, immediately prior to construction, during construction of the SWMS, and for the period of time after construction of the SWMS, the Licensee shall implement and maintain erosion and sediment control best management practices, such as silt fences, erosion control blankets, mulch, sediment traps, polyacrylamide (PAM), temporary grass seed, permanent sod, and floating turbidity screens to retain sediment on-site and to prevent violations of state water quality standards. These devices shall be installed, used, and maintained at all locations where the possibility exists of transferring suspended solids into the receiving waterbody due to the licensed work, and shall remain in place at all locations until construction in that location is completed and soils are permanently stabilized. All best management practices shall be in accordance with the guidelines and specifications described in *the State of Florida Erosion and Sediment Control Designer and Reviewer Manual* (Florida Department of Transportation and Florida Department of Environmental Protection, by HydroDynamics Incorporated in cooperation with Stormwater Management Academy, June 2007) unless a project-specific erosion and sediment control plan is approved as part of this License. If project-specific Conditions require additional measures

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during any phase of construction or operation to prevent erosion or control sediments beyond those specified in the approved erosion and sediment control plan, the Licensee shall implement additional best management practices as necessary, in accordance with the guidelines and specifications in the *State of Florida Erosion and Sediment Control Designer and Reviewer Manual*. The Licensee shall correct any erosion or shoaling that causes adverse impacts to the water resources as soon as feasible. Once project construction is complete in an area, including the re-stabilization of all side slopes, embankments and other disturbed areas, and before conversion to the operation and maintenance phase, all silt screens and fences, temporary baffles, and other materials that are no longer required for erosion and sediment control shall be removed.

4. The Licensee shall complete construction of all aspects of the SWMS described in the ERP Application Form, submitted as part of a post-certification submittal, amendment, modification, or certification application including water quality treatment features, and discharge control facilities prior to use of the portion of the certified facility being served by the SWMS.

5. At least 48 hours prior to the commencement of construction of any new SWMS for any part of a Certified Facility authorized by this certification, the Licensee shall submit to the Department a written notification of commencement using an "Environmental Resource Permit Construction Commencement Notice" (DEP Form 62-330.350(1), F.A.C.), indicating the actual start date and the expected completion date.

6. Each phase or independent portion of the approved system must be completed in accordance with the submitted DEP Form prior to the operation of the portion of the certified facility being served by that portion or phase of the system.

7. Within 30 days, or such other date as agreed to by DEP and the Licensee, after completion of construction of any new portions of the SWMS, the Licensee shall submit to the SWD, and copy the SCO, a written statement of completion and certification by a registered professional engineer (P.E.), or other appropriate registered professional, as authorized by law, utilizing the required "As-Built Certification and Request for Conversion to Operation Phase" (DEP Form 62-330.310(1), F.A.C.). Additionally, if deviations from the approved drawings are discovered, the As-Built Certification must be accompanied by a copy of the approved drawings with deviations noted.

8. Any substantial deviation from the approved drawings, exhibits, specifications or Conditions, may constitute grounds for revocation or enforcement action by the Department.

9. The operation phase of any new SWMS approved by the Department shall not become effective until the Licensee has complied with the requirements of the conditions herein, the Department determines the system to be in compliance with the approved plans, and the entity approved by the Department accepts responsibility for operation and maintenance of the system.

10. The SWD must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must be submitted to and approved by the Department prior to the dewatering event.

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[Section 373.414, F.S.; Chapters 62-25, 62-302, 62-330, and Rule 62-4.242, F.A.C.]

C. Wetland and Other Surface Water Impacts

1. All Certified Facilities shall be constructed in a manner which will eliminate or reduce adverse impacts to on-site and/or adjacent wetlands or other surface waters to the extent practicable or otherwise comply with substantive criteria for elimination or reduction. When impacts to wetlands will occur as a result of a future amendment, modification, or certification, and cannot be practicably eliminated or reduced, the Licensee may propose and the Department or Board shall consider mitigation to offset otherwise unpermittable activities under the Environmental Resource Permit review process pursuant to Condition A.1. above.

2. Proposed mitigation plans submitted with the DEP ERP Application forms required in Condition A.1.a. above, or submitted and approved as part of an amendment, modification, or certification, and that are deemed acceptable by DEP, shall include applicable construction conditions, success criteria and monitoring plans, and shall be incorporated into these Conditions as Attachment K (Mitigation Plan).

[Sections 373.413, 373.414, 373.415, 403.511, and 403.814(6), F.S.; Chapters 62-312, 62-330, 62-340, 62-342, and 62-345, , F.A.C.]

XXVIII. THIRD PARTY IMPACTS

The Licensee is responsible for maintaining compliance with these Conditions even when third party activities authorized by the Licensee occur in or on the Certified Area.

[Sections 403.506(1), F.S.]

XXIX. FACILITY OPERATION

The Licensee shall properly operate and maintain the Certified Facility and systems of treatment and control (and related appurtenances) that are installed and used by the Licensee to achieve compliance with these Conditions, as required by the final order of certification, these Conditions, or a post-certification amendment or modification. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the final order of certification, these Conditions, or a post-certification amendment or modification. Further, the Licensee shall take all reasonable steps to minimize any adverse impact resulting from noncompliance with any limitation specified in this certification, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying event.

[Rule 62-4.160(6), F.A.C.]

XXX. RECORDS MAINTAINED AT THE FACILITY

A. These Conditions or a copy thereof shall be kept at the Site.

B. The Licensee shall hold at the Site, or other location designated by these Conditions, records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation required by these Conditions, copies of all reports required by these Conditions, and records of all data used to complete the SCA for this approval. These materials shall be retained at least three (3) years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

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- C. Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
 2. the person responsible for performing the sampling or measurements;
 3. the dates analyses were performed;
 4. the person responsible for performing the analyses;
 5. the analytical techniques or methods used; and,
 6. the results of such analyses.

[Rules 62-4.160(12) and 62-4.160(14)(b), F.A.C.]

XXXI. WATER DISCHARGES

A. Discharges

1. Except as otherwise authorized by a permit issued by the Department under a federally approved or deleted program or to the extent a variance, exception, exemption or other relief is granted or authorized by these Conditions, the Licensee shall not discharge to surface or ground waters of the State wastes in concentrations which alone or in combinations with other substances, or components of discharges (whether thermal or non-thermal) are carcinogenic, mutagenic, or teratogenic to human beings (unless specific criteria are established for such components in Rule 62-520.400, F.A.C.) or are acutely toxic to indigenous species of significance to the aquatic community within surface waters affected by the ground water at the point of contact with surface waters.

2. Except as otherwise authorized by a permit issued by the Department under a federally approved or delegated program or to the extent a variance, exception, exemption or other relief is granted or authorized by these Conditions, all discharges and activities must be conducted so as to not cause a violation of the water quality standards set forth in Chapters 62-4, 62-302, 62-520, and 62-550, 62-620, F.A.C., including the provisions of Rules 62-4.243, 62-4.244, and 62-4.246, F.A.C., the antidegradation provisions of paragraphs 62-4.242(1)(a) and (b), F.A.C., subsections 62-4.242(2) and (3), F.A.C., and Rule 62-302.300, F.A.C., and any special standards for Outstanding Florida Waters and Outstanding National Resource Waters set forth in subsections 62-4.242(2) and (3), F.A.C.;

3. Except as otherwise authorized by a permit issued by the Department under a federally approved or delegated program or to the extent a variance, exception, exemption or other relief is granted or authorized by these Conditions, all dewatering discharges must be in compliance with Rule 62-621.300, F.A.C.

[Chapters 62-4, 62-302, 62-520, 62-550, and 62-620, F.A.C., and Rule 62-621.300, F.A.C.]

XXXII. SOLID AND HAZARDOUS WASTE

A. Solid Waste

The Licensee shall comply with all applicable provisions of Chapter 62-701, F.A.C., for any solid waste generated within a Certified Facility during construction, operation, or maintenance.

[Chapters 62-701, F.A.C.]

B. Hazardous Waste, Used Oil, Petroleum Contact Water and Spent Mercury

The Licensee shall comply with all applicable non-procedural provisions of DEP Chapter 62-730, F.A.C., for any hazardous waste generated within the Certified Facility. An EPA identification number must be obtained before beginning hazardous waste activities, unless the facility is a Conditionally Exempt Small Quantity Generators (CESQGs). CESQGs generate no more than 100 kg (220 lbs) of hazardous waste in any month.

The Licensee shall comply with all applicable provisions of DEP Chapter 62-710, F.A.C., for any used oil and used oil filters generated within the Certified Facility.

The Licensee shall comply with all applicable provisions of DEP Chapter 62-737, F.A.C., for any spent mercury-containing lamps and devices generated within the Certified Facility.

The Licensee shall comply with all applicable provisions of DEP Chapter 62-740, F.A.C. for any petroleum contact water located within the Certified Facility.

[Chapters 62-710, 62-730, 62-737, and 62-740, F.A.C.]

C. Hazardous Substance Release Notification

1. Any owner or operator of a facility who has knowledge of any release of a hazardous substance from a facility in a quantity equal to or exceeding the reportable quantity in any 24-hour period shall notify the Department by calling the STATE Watch Office at, (800) 320-0519, as soon as possible, but not later than one working day of discovery of the release.

2. Releases of mixtures and solutions are subject to these notification requirements only where a component hazardous substance of the mixture or solution is released in a quantity equal to or greater than its reportable quantity.

3. Notification of the release of a reportable quantity of solid particles of antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, or zinc is not required if the mean diameter of the particles released is larger than 100 micrometers (0.004 inches).

[Chapter 62-150, F.A.C.]

D. Contaminated Site Cleanup

The Licensee shall comply with all applicable non-procedural provisions of DEP Chapter 62-780, F.A.C., for any violations of relevant provisions of Chapter 376 or 403, that result in legal responsibility for site rehabilitation pursuant to those chapters. This responsibility for site rehabilitation does not affect any activity or discharge permitted or exempted pursuant to Chapter 376 or 403, F.S., or rules promulgated pursuant to Chapter 376 or 403, F.S.

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[Chapter 62-780, F.A.C.]

XXXIII. STORAGE TANK SYSTEMS

Registration, construction, installation, operation, maintenance, repair, closure, and disposal of storage tank systems within a Certified Area that store regulated substances shall be in accordance with Chapters 62-761 and 62-762, F.A.C., in order to minimize the occurrence and environmental risks of releases and discharges. Mineral acid storage tank systems are subject only to Rule 62-762.891, F.A.C.

A. Incident Notification Requirements.

Notification of the discovery of the loss of a regulated substance from a storage tank system exceeding 100 gallons on impervious surfaces, other than secondary containment, such as driveways, airport runways, or other similar asphalt or concrete surfaces, provided that the loss does not come in contact with pervious surfaces; or of the discovery of any other incident listed in subsections 62-761.450(2) or 62-762.451(2), F.A.C., shall be made to the County on Incident Notification Form 62-761.900(6) within 24 hours or before the close of the County's next business day.

B. Discharge Reporting Requirements

Upon discovery of an unreported discharge of a regulated substance, the Licensee shall report to the County on Discharge Report Form 62-761.900(1) within 24 hours or before the close of the County's next business day those items listed in paragraph 62-761.450(3)(a), F.A.C., including a spill or overfill event of a regulated substance to soil or another pervious surface, equal to or exceeding 25 gallons, unless the regulated substance has a more stringent reporting requirement specified in C.F.R. Title 40, Part 302.

C. Discharge Cleanup

If a discharge of a regulated substance occurs at a certified facility, actions shall be taken immediately to contain, remove, and abate the discharge under all applicable Department rules. The Licensees is advised that other federal, state, or local requirements may apply to these activities. If the contamination present is subject to the provisions of Chapter 62-780, F.A.C., corrective action, including free product recovery, shall be performed in accordance with that Chapter.

D. Out of Service and Closure Requirements

Storage tank systems shall be taken out-of-service and/or closed as necessary in accordance with Rules 62-761.800 and 62-762.801, F.A.C., as applicable.

[Chapters 62-761 and 62-762, F.A.C.]

SECTION B: SPECIFIC CONDITIONS

SECTION B: SPECIFIC CONDITIONS

I. DEPARTMENT OF ENVIRONMENTAL PROTECTION - CREC Units 4 & 5

The following Specific Conditions shall apply only to Unit 4 and Unit 5. Compliance with these Specific Conditions shall be the responsibility of Duke Energy Florida (Fossil).

A. Air

In addition to the federal requirements listed in Section A, Condition V., the Licensee shall comply with the following specific Condition of Certification:

Ambient air monitoring data shall be reported to the Department quarterly commencing on the date of certification by the last day of the month following the quarterly reporting period utilizing the SAROAD or other format approved by the Department in writing. Ambient air monitoring locations are can be found in Attachment B.

B. Water Discharges

1. Wastewater discharges into any waters of the State during construction and operation of the Units 4 & 5 shall be in accordance with all applicable provisions of Chapters 62-620, 62-302, 62-4, 62-601 and 62-160, F.A.C.; 40 CFR 423, Effluent Guidelines and Standards for Steam Electric Power Generating Point Source Category; and NPDES Permit FL0036366. Coal storage area runoff collection and treatment system; ash landfill runoff treatment system; runoff collection system discharge; and cooling tower blowdown are regulated under NPDES Permit FL0036366.

2. All discharges of low volume wastes including, but not limited to, wastewater from ion exchange water treatment systems, cooling tower basin cleaning wastes, floor drains (including laboratory/sample drains and similar wastes), metal cleaning wastes (including air preheater, fireside wash, and boiler tube cleaning), and boiler blowdown shall be discharged to an adequately sized and constructed IWW percolation pond (Pond #5) pursuant to requirements of Chapter 62-620, 62-660, 62-520, 62-160, and 62-4, F.A.C..

3. FGD Scrubber Blowdown and By-Products Handling

a. FGD scrubber blowdown wastewater shall be discharged to the approved treatment systems. Any such receiving treatment system shall be permitted/licensed in accordance with all applicable requirements.

i. The Licensee may, on a temporary basis, employ the use of a filter press or other Department-approved solids dewatering process to treat FGD blowdown wastewater from the Units 4 & 5 FGD ponds.

4. Within 180 days of the effective date of Modification P, the licensee shall submit to the Department for review and approval an evaluation of potential alternative(s) to manage Flue Gas Desulfurization (FGD) blow down. The evaluation shall include estimated durations for implementation and completion of the potential FGD blow down management alternatives. In the event the Department deems the evaluation to be incomplete or inadequate, the licensee shall within 90 days of written request from the Department, respond to the Department regarding the information requested and address all concerns raised in the Department's written request. The Department may grant additional time beyond 90 days, if

SECTION B: SPECIFIC CONDITIONS

reasonable justification for the additional time is presented by the licensee for review and consideration. This submittal is subject to the Post Certification Requirements in Section A.XX.

C. Sludge/Solids Management Requirements

1. Management Requirements

a. Management of sludge/solids generated by cleaning of the FGD blowdown treatment ponds at this facility shall be transported by truck to an off-site waste management facility that is authorized by the Department or in accordance with the Licensee's CCP Plan.

b. The Licensee shall be responsible for proper treatment, management, use, or land application of its sludge/solids.

[Rule 62-620.320(6), F.A.C.]

c. Disposal of sludge/solids in a solid waste management facility permitted by the Department shall be in accordance with the requirements of Chapter 62-701, F.A.C.

d. Storage, transportation, and disposal of sludge/solids characterized as hazardous waste shall be in accordance with requirements of Chapter 62-730, F.A.C.

e. Sludge/solids shall not be applied during rains that cause runoff from the site or when surface soils are saturated.

[Rule 62-620.320(6), F.A.C.]

f. The Licensee shall maintain records available for inspection by the Department at the facility, as follows:

- i. Quantity of sludge/solids generated;
- ii. Quantity of sludge/solids transported for treatment and/or disposal;
- iii. Name and location of the site(s) to which sludge/solids is transported; and

iv. If a person other than the Licensee is responsible for sludge/solids transportation, treatment, and/or disposal, the Licensee shall also keep records of the name and address of each transporter, and copies of all shipping manifests.

[Rule 62-620.320(6)]

g. The description of the operation and maintenance procedures for the FGD blowdown ponds provided with the certification modification application received on June 24, 2009, including all subsequently related documents submitted, shall be incorporated into the DEF CCP Solid Waste Management Plan.

2. No gypsum shall be stored or handled on the gypsum handling and temporary storage pad prior to final Departmental approval of the lined Flue Gas Desulfurization (FGD) blowdown settling pond treatment system including contact stormwater from the gypsum handling and temporary storage pad.

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3. No contact stormwater from the gypsum handling and temporary storage pad shall be discharged to the SWMS prior to appropriate Department approvals.

4. All gypsum or other industrial by-products generated from the FGD process shall be removed from the site for appropriate reuse or disposal. Gypsum or other industrial by-products resulting from the FGD process shall be stored and managed such that runoff from the materials does not adversely affect ground or surface waters.

D. Environmental Resource Permitting (Gypsum Handling/Storage Pad)

1. The Licensee shall submit inspection reports for the gypsum handling and temporary storage pad in the form required by the Department, FDEP Form # 62-343.900(6), *Inspection Certification*, in accordance with the following schedule:.

(X) For systems utilizing retention and wet detention, the inspections shall be performed 24 months after operation is authorized and every 24 months thereafter.

(X) For systems utilizing effluent filtration or exfiltration the inspections shall be performed 18 months after operation is authorized and every 18 months thereafter.

(X) For systems utilizing swales or retention-and-percolation, the inspections shall be performed 24 months after operation is authorized and every 18 months thereafter.

[Chapter 2.6.3 SWFWMD BOR]

E. Solid Wastes Management Plan

No later than December 31, 2008 or 180 days prior to the initial operation of Unit 4 and 5 FGD scrubbers (whichever occurs first), the Licensee shall submit a site-wide Coal Combustion By-Product (CCP)/Solid Waste Materials Management Plan that addresses operations of the fossil generating units to the Department's SWD Office and Siting Office for review and approval. Handling and monitoring of Solid Waste material shall be in accordance with the site-wide Coal Combustion By-Product (CCP)/Solid Waste Materials Management Plan for the fossil units.

The plan shall, at a minimum, include the following information:

1. descriptions and procedures for all applicable processes for on-site storage practices and management of CCPs, solid wastes and industrial by-products at the site.

2. plans or methods to minimize waste streams, and maximize beneficial use opportunities of CCPs;

3. methods for preventing or minimizing the release of contaminants to the environment, including (as applicable) leachate collection and control methods that meet the requirements of Chapter 62-701, F.A.C.;

4. certification for the above information, as appropriate, by a Professional Engineer registered in the state of Florida.

The Department shall indicate its approval or disapproval of the submitted plans, drawings, maps, analyses and contingency plans within 90 days of the originally submitted information. In the event that the Department requires additional information for the Licensee to

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complete, and the Department to approve the CCP/Solid Waste Materials Management Plan, the Department shall make a written request to the Licensee for additional information no later than 30 days after receipt of the originally submitted information.

All revisions or updates to the CCP/Solid Waste Materials Management Plan shall be submitted to the DEP Southwest District Solid Waste Program for review and approval with copies to the Siting Office. Review shall be in accordance with Section A, Condition XXI., Procedures for Post-Certification Submittals. Additionally, the Groundwater Monitoring, Operation and Maintenance Requirements (Attachment H to these Conditions) shall be updated, as appropriate, based on changes to the CCP/Solid Waste Materials Management Plan to reflect revised CCP management practices.

F. Ash Landfill and Coal Storage Area

1. Ash Landfill

a. DEF shall designate a portion of the site as a temporary ash landfill. Associated with the temporary landfill shall be certain sites for the testing and monitoring of leachates and ash storage area liners.

b. Adequate geophysical testing shall be conducted to determine if solution cavities are present under the landfill area. If such cavities are located, such cavities shall be sealed off and stabilized.

c. The proposed ash landfill area shall be monitored and studied pursuant to a detailed leachate testing and monitoring program to be submitted by DEF to the Department within 30 days of certification for review and approval, rejection, or modification within 60 days thereafter. The detailed leachate testing and monitoring program shall be consistent with the conceptual leachate monitoring program attached and incorporated herein as Attachment D.

d. After approval of the program by the Department, DEF shall conduct the approved testing and monitoring program under the supervision of the Department. Results of the program shall be submitted to the Department for its review and consideration on a monthly basis.

e. The results of the program will be used by the Department in determining whether PEF has affirmatively demonstrated that Florida Water Quality Standards (62-520 and 62-550, F.A.C.) will not be violated in determining the zone of discharge and in determining the need for a liner.

f. If the Department determines that DEF has failed to affirmatively demonstrate that Florida Water Quality Standards (62-520 and 62-550, F.A.C.) will not be violated, DEF shall present to the Department, within 90 days of such determination, a plan of correction (which may include, if appropriate, a semi-permeable liner) for review and approval by the Department and for timely implementation by DEF, or DEF shall place an impermeable liner under the final ash landfill site and shall remove all ash from the temporary landfill site and place it on the lined landfill location.

g. The final cover shall be in compliance with Chapter 62-701, F.A.C., and at least 12" of clay or sufficient suitable liner material shall be placed on the top and exposed sides of each finished landfill cell. Sufficient topsoil to support vegetation shall be

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placed over the top and side clay liner. The top and exposed sides of the ash landfill shall be vegetated to control erosion.

h. The Licensee is authorized to store or dispose ash and other approved coal combustion by-products in the on-site ash storage/disposal area in accordance with the plans titled, "Ash Storage/Disposal Area Vertical Expansion, " dated December 2010 (Attachment 7, received August 17, 2011). The permitted maximum height of the ash storage/disposal area shall be no greater than +220 ft. NGVD, with slopes no steeper than 3H:1V. Stormwater benches shall be constructed as shown on the drawings.

i. Within 120 days of final issuance of Modification Q, the Licensee shall provide an ash storage/disposal area operations plan that describes the procedures for filling, compacting, and final closure of the ash storage/disposal area for Department approval. The plan shall include drawings that identify the method and sequence of filling, and a timetable for submittal of detailed closure plans and design.

j. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity, or subsurface instability, are discovered onsite, or within 500 feet of the ash storage/disposal area during the operation, the Department shall be notified verbally within 24 hours of the discovery. Written notification shall be submitted within 7 days of discovery. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste, leachate or CCPs into ground or surface water. If a depression or subsurface collapse occurs within the ash storage/disposal area, additional materials shall not be placed (stored or disposed) in the affected area until the feature (i.e., depression, sinkhole, collapse, etc.) has been fully investigated and remediated if necessary.

2. Ash Relocation Due to Installation of New Access Road to Support the Units 4 & 5 Clean Air Project

a. Prior to commencement of modifications/additions to the existing access road located along the south and west perimeters of the ash storage area the Licensee shall submit the following items to the DEP SWD Office and Siting Office :

i. a figure, aerial photograph or plan sheet identifying the area where the ash to be removed will be re-located;

ii. plan sheets of existing (pre-construction) conditions and final contours of the ash landfill affected by the access road installation; and

iii. a figure, aerial photograph or plan sheet showing the location and details of any collapsed surface cavities/sinkholes found on the site relative to the ash landfill and proposed access road project.

b. The working face slopes of the relocated ash shall be no steeper than 4H:1V, unless prior approval from the Department's SWD Solid Waste Section and the Siting Office for an alternative slope is obtained.

c. The filtered stormwater drainage downslope of the working face shall not discharge outside the contact stormwater or Industrial Wastewater system.

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d. Within 90 days following completion of the access road and restoration of the final cover on the ash landfill in the affected portions, the Licensee shall submit to the Department's SWD Office and Siting Office the following information:

- i. a final survey of the affected portions of the closed ash landfill that demonstrates that the slopes are no steeper than 4H:1V;
- ii. documentation that the clay cover, if used, is no less than 12 inches thick;
- iii. hydraulic conductivity testing results on the constructed clay layer, if used, (5 tests for the first acre, then 1 test/acre/lift for every other acre). Testing should be carried out in accordance with ASTM Method D5084 or equivalent; and
- iv. certification for the above information by a Professional Engineer registered in the state of Florida.
- v. A geosynthetic clay liner (GCL) or other alternative liner system may be used; however, prior to the installation of any alternative liner system, the Licensee shall submit a complete proposed plan to the Department's SWD Solid Waste Section and Siting Office for review and approval.

The plan shall, at a minimum, include specifications for the Construction Quality Assurance Plan and drawings showing the location of the liner cover, soil cover for the liner, and any other relevant information that may be applicable for the type of alternative liner system being proposed.

The Department shall indicate its approval or disapproval of the submitted plan within 90 days of the originally submitted information. In the event that the Department requires additional information for the Licensee to complete, and the Department to approve the GCL or alternative liner system, the Department shall make a written request to the Licensee for additional information no later than 30 days after receipt of the originally submitted information.

3. Coal Storage Area

Handling and monitoring of the coal storage area and associated wastes shall be in accordance with the site-wide Coal Combustion By-Product (CCP)/Solid Waste Materials Management Plan for the fossil units required by Section B, Condition I.E. Solid Wastes Management Plan.

[Chapters 62-550, 555, 560, and 699, F.A.C.]

G. Domestic Waste Water Treatment System

1. Operation of an existing 0.020 MGD 3-Month Average Daily Flow (3MADF), Type III, extended aeration domestic wastewater treatment plant consisting of: one 20,000 gallon concrete equalization basin, eight aeration basins of 34,000 gallons total volume, two clarifiers of 5,700 gallons total volume and 103 square feet of surface area, one chlorine contact chamber of 1,600 gallons, and two digesters of 8,000 gallons. This plant is operated to provide secondary treatment with basic disinfection.

2. Land Application: An existing 0.020 MGD 12-Month Average Daily Flow (12MADF) permitted capacity Part IV rapid-rate land application system (R-001). R-001

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consists of a single cell Rapid Infiltration Basin (RIB) of 13,184 square feet of bottom surface area. R-001 is located approximately at latitude 28° 57' 55" N, longitude 82° 41' 57" W.

The limitations, monitoring, and other requirements are set forth in the following conditions.

a. Reuse and Land Application Systems

i. During the period beginning on the issue date of Modification P, the Licensee is authorized to direct reclaimed water to Reuse System R-001. Such reclaimed water shall be limited and monitored by the licensee as specified below and reported in accordance with condition 2.b.viii:

			Reclaimed Water Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, to R-001	MGD	Maximum	0.020	Report	-	-	5 Days/Week	Flow meter and totalizer	FLW-01	See Cond.I. A.3
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	20.0	30.0	-	60.0	Monthly	Grab	EFA-01	
Solids, Total Suspended	MG/L	Maximum	20.0	30.0	-	60.0	Monthly	Grab	EFA-01	
pH	SU	Range	-	-	-	6.0 to 8.5	5 Days/Week	Grab	EFA-01	
Coliform, Fecal	#/100 ML	Maximum	200	-	-	800	Monthly	Grab	EFA-01	See Cond.I. A.4
Total Chlorine Residual (For Disinfection)	MG/L	Minimum	-	-	-	0.5	5 Days/Week	Grab	EFA-01	See Cond.I. A.5
Nitrogen, Nitrate, Total (as N)	MG/L	Maximum	-	-	-	12.0	Monthly	Grab	EFA-01	

ii. Reclaimed water samples shall be taken at the monitoring site locations listed and described below:

Monitoring Location	Description of Monitoring Location
EFA-01	Effluent sampling point after treatment and prior to Reuse system R-001.
FLW-01	Flow meter and totalizer located at V –notch weir in the chlorine contact chamber.

iii. A flow meter shall be utilized to measure flow and calibrated at least annually.

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[Rules 62-601.200(17) and .500(6), F.A.C.]

iv. The arithmetic mean of the monthly fecal coliform values collected during an annual period shall not exceed 200 per 100 mL of reclaimed water sample. The geometric mean of the fecal coliform values for a minimum of 10 samples of reclaimed water, each collected on a separate day during a period of 30 consecutive days (monthly), shall not exceed 200 per 100 mL of sample. Any one sample shall not exceed 800 fecal coliform values per 100 mL of sample.

[Rules 62-610.510 and 62-600.440(4)(c), F.A.C.]

v. A minimum of 0.5 mg/L total chlorine residual must be maintained for a minimum contact time of 15 minutes based on peak hourly flow.

[Rules 62-610.510 and 62-600.440(4)(b), F.A.C.]

b. Other Limitations and Monitoring and Reporting Requirements

i. During the period beginning on the date of issuance of Modification P, the treatment facility shall be limited and monitored by the licensee as specified below and reported in accordance with condition 2.b.viii:

			Limitations				Monitoring Requirements			
Parameter	Units	Max/Min	Annual Average	Monthly Average	Weekly Average	Single Sample	Monitoring Frequency	Sample Type	Monitoring Location Site Number	Notes
Flow, Total Plant	MGD	Maximum	0.020 3MADF	Report	-	-	5 Days/Week	Flow meter and totalizer	FLW-01	See Cond.I.B. 3, 5
Percent Capacity, (3MADF/Permitted Capacity) x 100	%	Maximum	-	Report	-	-	Monthly	Calculation	FLW-01	
BOD, Carbonaceous 5 day, 20C	MG/L	Maximum	-	Report	-	-	Annually ¹	Grab	INF-01	See Cond.I.B. 4
Solids, Total Suspended	MG/L	Maximum	-	Report	-	-	Annually ¹	Grab	INF-01	See Cond.I.B. 4

1 – The annual sample shall be taken in the month of February.

ii. Samples shall be taken at the monitoring site locations listed and described below:

Monitoring Location	Description of Monitoring Location
FLW-01	Flow meter and totalizer located at V –notch weir in the chlorine contact chamber.
INF-01	Influent sampling point prior to treatment and ahead of the return activated sludge line.

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iii. The three-month average daily flow to the treatment plant shall not exceed 0.020 MGD.

iv. Influent samples shall be collected so that they do not contain digester supernatant or return activated sludge, or any other plant process recycled waters.

[Rule 62-601.500(4), F.A.C.]

v. A flow meter shall be utilized to measure flow and calibrated at least annually.

[Rule 62-601.200(17) and .500(6), F.A.C.]

vi. Parameters which must be monitored as a result of a surface water discharge shall be analyzed using a sufficiently sensitive method in accordance with 40 CFR Part 136. Parameters which must be monitored as a result of a ground water discharge (i.e., underground injection or land application system) shall be analyzed in accordance with Chapter 62-601, F.A.C. All monitoring shall be representative of the monitored activity.

[Rule 62-620.610(18), F.A.C.]

vii. The licensee shall provide safe access points for obtaining representative influent, reclaimed water, and effluent samples which are required by these Conditions.

[Rule 62-601.500(5), F.A.C.]

viii. Monitoring requirements under these Conditions are effective on the first day of the second month following the issuance of Modification P. Until such time, the licensee shall continue to monitor and report in accordance with previously effective domestic wastewater permit No. FLA011862 requirements. During the period of operation authorized by these Conditions, the licensee shall complete and submit to the Department Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to these conditions. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type	Monitoring Period	Due Date
Monthly or Toxicity	first day of month – last day of month	28 th day of following month
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28

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Annual	January 1 – December 31	March 28
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DMRs shall be submitted for each required monitoring period including months of no discharge. Unless otherwise specified by the Department, the licensee shall make copies of the DMR and shall submit the completed DMR to the Department postmarked by the 28th of the month following the month of operation at the addresses specified below:

Originals to:

Florida Department of Environmental Protection
Wastewater Compliance Evaluation Section, Mail Station 3551
Twin Towers Office Building
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Copies to:

Florida Department of Environmental Protection
Domestic Wastewater Program
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926

Siting Coordination Office

[Rules 62-620.610(18) and 62-601.300(1),(2), and (3), F.A.C.]

ix. Unless specified otherwise in these Conditions, all reports and other information required by the Conditions under this Section H. Units 4 & 5 Domestic Waste Water Treatment System, including 24-hour notifications, shall be submitted to or reported to, as appropriate, the Department's Southwest District Office at the address specified below with electronic copies to the Siting Office:

Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, FL 33637-0926
Phone Number - 813-470-5700
FAX Number - 813-470-5995
Email – DWSWD@DEP.STATE.FL.US

3. Residual Management Requirements

a. The method of residuals use or disposal by this facility is transport to a Residual Management Facility or disposal in a Class I or II solid waste landfill. Transportation of the residuals to an alternative RMF requires a copy of the agreement pursuant to Rule 62-640.880(1)(c), F.A.C., along with a written notification to the Department at least 30 days before transport of the residuals.

b. The licensee shall be responsible for proper treatment, management, use, and land application or disposal of its residuals.

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[Rule 62-640.300(5), F.A.C.]

c. The licensee shall not be held responsible for treatment, management, use, or land application violations that occur after its residuals have been accepted by a permitted residuals management facility with which the source facility has an agreement in accordance with Rule 62-640.880(1)(c), F.A.C., for further treatment, management, use or land application.

[Rule 62-640.300(5), F.A.C.]

d. Disposal of residuals, septage, and other solids in a solid waste landfill, or disposal by placement on land for purposes other than soil conditioning or fertilization, such as at a monofill, surface impoundment, waste pile, or dedicated site, shall be in accordance with Chapter 62-701, F.A.C.

[Rule 62-640.100(6)(k)3&4, F.A.C.]

e. If the licensee intends to accept residuals from other facilities, a COC amendment is required pursuant to Rule 62-640.880(2)(d), F.A.C.

[Rule 62-640.880(2)(d), F.A.C.]

f. The licensee shall keep hauling records to track the transport of residuals between facilities. The hauling records shall contain the following information:

Required of Source Facility	Required of RMF
1. Date and Time Shipped	1. Date and Time Received
2. Amount of Residuals Shipped	2. Amount of Residuals Received
3. Degree of Treatment (if applicable)	3. Name and ID Number of Source Facility
4. Name and ID Number of Residuals Management Facility or Treatment Facility	4. Signature of Hauler
5. Signature of Responsible Party at Source Facility	5. Signature of Responsible Party at Residuals Management Facility or Treatment Facility
6. Signature of Hauler and Name of Hauling Firm	

These records shall be kept for five years and shall be made available for inspection upon request by the Department. A copy of the hauling records information maintained by the source facility shall be provided upon delivery of the residuals to the residuals management facility or treatment facility. The RMF licensee shall report to the Department within 24 hours of discovery any discrepancy in the quantity of residuals leaving the source facility and arriving at the residuals management facility or treatment facility.

[Rule 62-640.880(4), F.A.C.]

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4. Additional Reuse and Land Application Requirements- Rapid Rate Land Application System (R-001)

a. All ground water quality criteria specified in Chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge. The zone of discharge for this project shall extend horizontally 100 feet from the application site or to the facility's property line, whichever is less, and vertically to the base of the surficial aquifer.

[Rules 62-520.200(23), 62-522.400 and 62-522.410, F.A.C.]

b. Advisory signs shall be posted around the site boundaries to designate the nature of the project area.

[Rule 62-610.518, F.A.C.]

c. The annual average hydraulic loading rate to the rapid infiltration basin(s) shall be limited to a maximum of 2.4 inches per day (as applied to the entire bottom area).

[Rule 62-610.523(3), F.A.C.]

d. Rapid infiltration basins shall be routinely maintained to control vegetation growth and to maintain percolation capability by scarification or removal of deposited solids. Basin bottoms shall be maintained to be level.

[Rules 62-610.523(6) and (7), F.A.C.]

e. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required.

[Rules 62-610.514 and 62-610.414, F.A.C.]

f. Overflows from emergency discharge facilities on storage ponds or on infiltration ponds, basins, or trenches shall be reported as an abnormal event to the Department's Southwest District Office within 24 hours of an occurrence. The provisions of Rule 62-610.800(9), F.A.C., shall be met.

[Rules 62-610.800(9), F.A.C.]

5. Operation and Maintenance Requirements

a. During the period of operation, the Units 4 and 5 domestic wastewater facilities shall be operated under the supervision of an operator certified in accordance with Chapter 62-602, F.A.C. In accordance with Chapter 62-699, F.A.C., this facility is a Category III, Class D facility and, at a minimum, operators with appropriate certification must be on the site as follows:

b. A Class D or higher operator for 3 nonconsecutive days/week for 1½ hour/week. The lead operator must be a Class D operator, or higher.

[Rules 62-620.630(3), 62-699.310 and 62-610.462, F.A.C.]

c. An operator meeting the lead operator classification level of the plant shall be available during all periods of plant operation. "Available" means able to be contacted as needed to initiate the appropriate action in a timely manner. Daily checks of the plant shall be performed by the licensee or his representative or agent 5 days per week. On those

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days when the facility is not staffed by a certified operator, the licensee shall ensure that Flow, pH, Total Chlorine Residual (For Disinfection) are monitored in accordance with Part 2 of this section.

[Rule 62-699.311(1), F.A.C.]

d. The licensee shall maintain the following records and make them available for inspection on the site of the permitted facility:

- i. A copy of the current operation and maintenance manual as required by Chapter 62-600, F.A.C.;
- ii. A copy of the facility record drawings;
- iii. Copies of the licenses of the current certified operators; and
- iv. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules. The logs shall, at a minimum, include identification of the plant; the signature and certification number of the operator(s) and the signature of the person(s) making any entries; date and time in and out; specific operation and maintenance activities; tests performed and samples taken; and major repairs made. The logs shall be maintained on-site in a location accessible to 24-hour inspection, protected from weather damage, and current to the last operation and maintenance performed.

[Rule 62-620.350, F.A.C.]

6. Other Specific Conditions

a. Florida water quality criteria and standards shall not be violated as a result of any discharge or land application of reclaimed water or residuals from this facility.

[Rules 62-610.850(1)(a) and (2)(a), F.A.C.]

b. The treatment, management, use or land application of residuals shall not cause a violation of the odor prohibition in Rule 62-296.320(2), F.A.C.

[Rules 62-600.410(8) and 62-640.400(6), F.A.C.]

c. The deliberate introduction of stormwater in any amount into collection/transmission systems designed solely for the introduction and conveyance of domestic/industrial wastewater; or the deliberate introduction of stormwater into collection/transmission systems designed for the introduction or conveyance of combinations of storm and domestic/industrial wastewater in amounts which may reduce the efficiency of pollutant removal by the treatment plant is prohibited, except as provided by Rule 62-610.472, F.A.C.

[Rule 62-604.130(3), F.A.C.]

d. Collection/transmission system overflows shall be reported to the Department in accordance with Chapter 62-620.610(20) F.A.C.

e. The operating authority of a collection/transmission system and the licensee of a treatment plant are prohibited from accepting connections of wastewater discharges which have not received necessary pretreatment or which contain materials or pollutants other than normal domestic wastewater constituents:

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- i. Which may cause fire or explosion hazards; or
- ii. Which may cause excessive corrosion or other deterioration of wastewater facilities due to chemical action or pH levels; or
- iii. Which are solid or viscous and obstruct flow or otherwise interfere with wastewater facility operations or treatment; or
- iv. Which result in the wastewater temperature at the introduction of the treatment plant exceeding 40oC or otherwise inhibiting treatment; or
- v. Which result in the presence of toxic gases, vapors, or fumes that may cause worker health and safety problems.

[Rule 62-604.130(54), F.A.C.]

f. The treatment facility, storage ponds, rapid infiltration basins, and/or infiltration trenches shall be enclosed with a fence or otherwise provided with features to discourage the entry of animals and unauthorized persons.

[Rules 62-610.518(1) and 62-600.400(2)(b), F.A.C.]

g. Screenings and grit removed from the wastewater facilities shall be collected in suitable containers and hauled to a Department approved Class I landfill or to a landfill approved by the Department for receipt/disposal of screenings and grit.

[Rule 62-701.300(1)(a), F.A.C.]

h. The licensee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater, wastewater residuals (sludges), or reclaimed water. The licensee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

[Rule 62-4.070(3), F.A.C.]

i. The licensee shall provide adequate notice to the Department of the following:

i. Any new introduction of pollutants into the facility from an industrial discharger which would be subject to Chapter 403, F.S., and the requirements of Chapter 62-620, F.A.C. if it were directly discharging those pollutants; and

ii. Any substantial change in the volume or character of pollutants being introduced into that facility by a source which was identified in the permit application and known to be discharging at the time the permit was issued.

Adequate notice shall include information on the quality and quantity of effluent introduced into the facility and any anticipated impact of the change on the quantity or quality of effluent or reclaimed water to be discharged from the facility.

[Rule 62-620.625(2), F.A.C.]

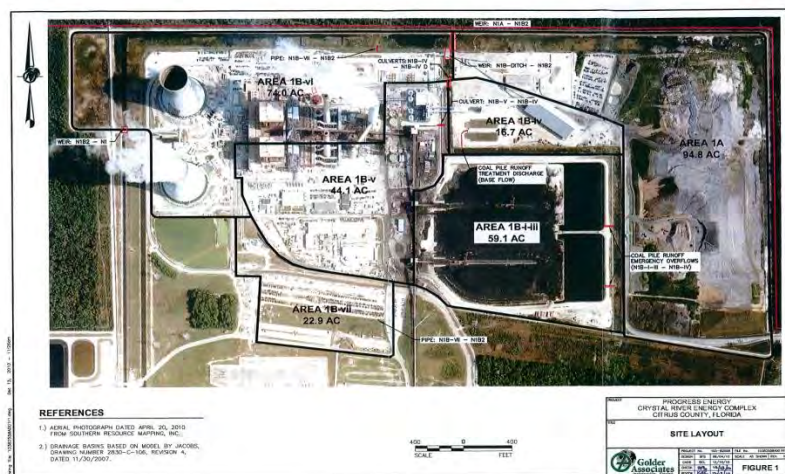
7. General Conditions

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The licensee shall comply with all the applicable, non-procedural general permit conditions found in Chapter 62-620.610 (1-23) F.A.C. as these relate to operation of the Units 4 and 5 domestic wastewater collection and treatment facilities.

H. Crystal River North Area Specific Environmental Resource Conditions

1. The following Conditions apply exclusively to the Crystal River North Area (CRN) drainage basins as delineated within the CREC Attachment F.



a. Activities that fall within the areas identified as 1B-i-iii, 1B-iv, 1B-v, 1B-vi, and 1A above will not require an environmental Resource Permit review, including the requirements pursuant to Section A, Condition XXX. Environmental Resources. Activities falling within these defined basins will require review by the DEP Southwest District Industrial Wastewater Waste and/or Solid Waste Sections as appropriate.

b. It has been demonstrated through the Golder Associates North Plant Area Stormwater Jacobs Modeling Report (dated July 19, 2010) and submitted with the PEF Petition for Modification (Mod P) dated September 9, 2010, that the receiving system for Area 1B-Vii is adequate to handle the volume of discharge from that area. For activities within Area 1B-Vii not previously authorized by post certification submittal, the Licensee shall provide the information pursuant to Section A, Condition XXX. Environmental Resources except that further modeling for additional impervious surfaces shall not be required.

II. DEPARTMENT ENVIRONMENTAL PROTECTION - CREC Unit 3

The following Specific Conditions shall apply only to Unit 3. Compliance with these Specific Conditions shall be the responsibility of Duke Energy Florida (Nuclear).

A. Water Discharges

Any discharges into any waters of the State during operation of Unit 3 shall be in accordance with all applicable provisions of Chapters 62-620, 62-302, 62-4, 62-601 and 62-160, F.A.C., and 40 CFR 423, *Effluent Guidelines and Standards for Steam Electric Power Generating Point Source Category* and with NPDES Permit No. FL0000159 (attached as Appendix III), as well as any subsequent modifications, amendments and/or renewals. .

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B. Environmental Resource Review for South Cooling Tower and Unit 3 Laydown/Parking Areas

1. At least 90 days prior to construction of the South Cooling Tower, the Licensee shall provide to the DEP SWD office all information necessary for a complete Environmental Resource Permit application including the engineering drawings and supporting documentation necessary to demonstrate that the stormwater runoff from the proposed project will be treated and attenuated in accordance with Chapters 40D-4, 40D-40 and 40D-400, F.A.C, and a Wetland Mitigation Plan if applicable. The drawings and documentation shall be signed, sealed and dated by a professional engineer registered in the State of Florida.

2. Within 60 days following certification, and prior to construction of any construction laydown and parking areas associated with Unit 3, the Licensee shall provide to the DEP SWD office all information necessary for a complete Environmental Resource Permit application including the engineering drawings and supporting documentation necessary to demonstrate that the stormwater runoff from the proposed project will be treated and attenuated in accordance with Chapters 40D-4, 40D-41 and 40D-42, F.A.C, and a Wetland Mitigation Plan if applicable. The drawings and documentation shall be signed, sealed and dated by a professional engineer registered in the State of Florida.

3. Prior to the commencement of construction, the Department shall conduct a timely review of the submitted information and request the correction of any errors and omissions to complete the application information. This shall be done in accordance with timeframes established in Section 120.60, F.S., and Rule 62-4.055, F.A.C.

4. The Department shall notify the Licensee in writing that the information is complete upon review of all requested information and the correction of any errors or omissions. Construction shall not begin until the Department has provided written notification of approval of the project including the Wetland Mitigation Plan as applicable. Such approval or denial shall be provided within 30 days following completeness of the application information.

5. Turbidity and sediments must be controlled to prevent violations of water quality pursuant to Rules 62-302.500, 62-302.530(70) and 62-4.242, F.A.C. Best Management Practices, as specified in the Florida Stormwater, Erosion and Sedimentation Control Inspectors Manual, shall be installed and maintained at all locations where the possibility of transferring suspended solids into wetlands and/or surface waters due to the permitted activity. If site-specific conditions require additional measures, then the applicant shall implement them as necessary to prevent adverse impacts to wetlands and/or surface waters.

6. The existing ambient water quality within Outstanding Florida Waters shall not be lowered as a result of the proposed activity, except as authorized by the FDEP under subsection 62-4.242(2), F.A.C.

C. Domestic Wastewater Treatment

Domestic wastewater from Unit 3 shall be treated by the Crystal River Units 1, 2, and 3 Sewage Treatment Plant as authorized by Domestic Wastewater Facility Permit FLA118753 issued by the DEP SW District. DEF shall abide by the conditions of Permit No FLA118753 and any modification or renewal thereof for the continued authorized treatment of domestic wastewater from Unit 3. Such provisions shall be fully enforceable as conditions of

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this certification. Any violation of such provisions, where it is determined that Unit 3 is the cause, shall be a violation of these Conditions of Certification.

D. Radiological

1. Decommissioning

Upon application to the NRC for authority to decommission the plant, the applicant shall provide the Department a copy of the plan submitted to NRC for radioactive materials removal and/or containment for the site. Should the Department's review of the written plan reveal deficiencies, the Department shall bring such deficiencies to the attention of the applicant and the NRC and maintains the right to initiate a request, consistent with NRC procedural requirements that remedial action be taken to correct the deficiencies.

2. Emergency Plan

The applicant shall work with the State Division of Emergency Management in the Department of Community Affairs and the State Department of Health, Bureau of Radiation Control, and Citrus and Levy Counties in bi-annually updating the emergency procedures and evacuation planning as necessary, including but not limited to improvements in communication and warning systems and in updating predicted plume overlays.

3. Radiological Release Limitations

The recommendation in the Power Plant Site Certification Analysis that certification be issued is based in part upon the fact that in order to obtain a construction permit and operating license from NRC, the applicant must comply with all applicable regulations, requirements, and standards of the U.S. Nuclear Regulatory Commission (NRC) which limit the release of radioactive materials in solid waste, liquid or gaseous effluents to the environment. The above NRC regulations, requirements and standards include the following:

a. Standards for Protection Against Radiation, U.S. Nuclear Regulatory Commission Rules and Regulations, Title 10, Chapter 1, Part 20, Code of Federal Regulations, as presently in effect or hereafter amended.

b. Limitations and conditions for the controlled release of radioactive materials in solid, liquid and gaseous effluents contained in the Radiological Environmental Monitoring Program required by Title 10, 10 CFR 50, Appendix I as presently in effect or hereafter amended.

The Department has the statutory duty to insure that the location and operation of Crystal River Unit 3 will produce minimal adverse effects on human health, the environment, the ecology and the land and its wildlife, and the ecology of State waters and their aquatic life. (Section 403.502, F.S.) The Department has determined that the construction and operation of Crystal River Unit 3 must comply with the above radiological release limitations in order to minimize adverse effects on human health and the environment. This certification is conditioned upon full compliance by the applicant with the applicable above regulations, requirements and standards.

The NRC has the duty and responsibility imposed by statute, to enforce compliance by the applicant with NRC standards and technical specifications, to assure that the construction and operation of Crystal River Unit 3 will be in accord with the common defense and security and will provide adequate protection to the health and safety of the public. See

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Section 103(d) of the Atomic Energy Act, 42 U.S.C. section 2133(d) (1970); accord. 42 U.S.C. section 2332(a) (1970) including any subsequent revisions.

However, should the Department determine that the NRC has failed to discharge its duty and responsibility, it may bring any such deficiencies to the attention of the applicant and the NRC, and maintains the right to initiate a request, consistent with NRC procedural requirements, that appropriate enforcement action be taken to correct the deficiencies.

4. Monitoring

The applicant shall comply with the most recent Department of Health Environmental Surveillance Agreement or its equivalent or future replacement. Should the Department of Health determine that additional monitoring is required, it may take appropriate action to require such monitoring by modification of this condition of certification.

5. Reservation of Legal Rights

The Department recognizes that the NRC has exclusive authority in certain areas related to the construction and operation of Crystal River Unit 3. These conditions of certification do not limit, expand or supersede any federal requirement or restriction under federal law, regulation, or regulatory approval or license. Compliance with the conditions herein does not constitute a waiver of the applicant's responsibility to comply with all applicable NRC requirements. Applicant's acceptance of these radiological conditions of certification does not, in and of itself, constitute a waiver by Applicant of any claim that any such radiological conditions are invalid under the doctrine of federal preemption or otherwise by law.

E. Independent Spent Fuel Storage Installation Surface Water Management System

1. The "As Built" forms required by Section A, Condition XXX.A.10 shall be accompanied by a copy of the As-Built or Record Drawings (Drawing Numbers C-1009 through C-1019) with any deviations noted on the drawings.

2. Prior to the transfer of the spill retention pond (SRP) into operation, the licensee shall install erosion control at the point where the SRP discharge enters Stormwater Pond B. The As Built or Record Drawing No. C-1010 shall reference its installation and include a standard detail.

3. The Operation and Maintenance Entity shall perform inspections of the DEF CREC Independent Spent Fuel Storage Installation surface water management system beginning 18 months after operation is authorized and every 18 months thereafter. Every 18 months the Operation and Maintenance Entity shall submit a report of the inspection results to the DEP SWD ERP section, with an electronic copy to the Siting Office, using FDEP Form # 62-330.311(1).

4. The maintenance of the PEF CREC Independent Spent Fuel Storage Installation surface water management system shall be in accordance with the Stormwater System Operation and Maintenance Plan (Attachment E). It is the responsibility of the Licensee to ensure that the surface water management system is functioning as designed.

5. The SRP valve shall be operated in accordance with CR3 procedure WP-106. Only SRP discharge water that is oil and contact water free, is a source of water for the wetland.

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6. Prior to the transfer of the SRP into operation, the Licensee shall install a staff gauge in Stormwater Pond B. The As-Built or Record Drawing No. C-1009 shall reference its location and provide specifications.

7. Prior to operation of the SRP, the Licensee shall submit a revised CR3 procedure WP-106 to the DEP SWD Industrial Waste Water Program (with an electronic copy to the Siting Office) for review and approval. The CR3 procedure WP-106 shall be revised to include:

- a. a description of how the integrity of the liner of the SRP will remain intact during the removal of oil spill wastewater;
- b. a protocol for training personnel; and
- c. a protocol for determining circumstances in which water should be released from the SRP to Pond B.

III. DEPARTMENT ENVIRONMENTAL PROTECTION - CCCP Units 1 and 2

The following Specific Conditions shall apply only to CCCP Units 1-2.

A. Potable Water

1. The potable water supply system shall be designed and operated in conformance with the applicable requirements of Chapters 62-550, 62-555, 62-560, and 62-699, F.A.C. Information as required in Chapters 62-550, 62-555, 62-560, and 62-699, F.A.C., shall be submitted to FDEP 180 days prior to installation and operation of any potable water system. The operator of the potable water supply system shall be certified in accordance with Chapters 62-602 and 62-699, F.A.C. All monitoring reports shall be submitted to FDEP SWD, Potable Water Section, and the Siting Coordination Office (SCO).

B. Domestic Wastewater

1. The domestic wastewater treatment and disposal facilities shall be designed and operated in accordance with any applicable provisions of Chapters 62-600, 62-602, 62-604, 62-610, 62-620, 62-640, and 62-699, F.A.C. The operator of the domestic wastewater system shall be certified in accordance with Chapter 62-699, F.A.C. At least 180 days prior to commencing installation of the domestic wastewater treatment and disposal facilities, the Licensee shall submit final plans for the domestic wastewater facilities to FDEP SWD, Domestic Wastewater Section, and the SCO for review and approval. The submittal shall include calculations, drawings, reports, completed permit application forms, and a preliminary engineering report with information for the domestic wastewater treatment and disposal facilities. All documents must be signed and sealed by a professional engineer registered in the State of Florida..

IV. DEPARTMENT ENVIRONMENTAL PROTECTION —Facility Wide (CREC Units 3-5 and CCCP Units 1 and 2)

The following Specific Conditions shall apply to all Certified Facilities.

A. Groundwater Monitoring Requirements

1. The Licensee shall comply with the requirements of the approved CREC Groundwater Monitoring, Operation and Maintenance Requirements (GWMOMR) (Attachment

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H to these Conditions). A violation of the requirements of the GWMOMR shall be a violation of these Conditions.

2. DEF shall abide by the conditions of the approved site-wide GWMOMR and any subsequent modification thereof for the continued authorized discharge of industrial waste water to ground water. Such provisions shall be fully enforceable as conditions of this certification. Any violation of such provisions, where it is determined that CREC is the cause, shall be a violation of these Conditions of Certification.

a. The requirements of the GWMOMR shall include, but not be limited to, at least the following:

- i. discharge limitations,
- ii. monitoring requirements,
- iii. monitoring well construction requirements,
- iv. updated aerial showing all monitoring wells (existing and new).
- v. a description of the complete IWW system including IWW treatment systems, monitoring wells and percolation ponds,
- vi. sampling locations and parameters to be sampled at each monitoring well and percolation pond location,
- vii. monitoring frequencies,
- viii. reporting and recordkeeping requirements, and
- ix. operational requirements such as testing requirements, land application area maintenance, impoundment operation and maintenance, and impoundment integrity.

b. The GWMOMR shall be revised to comply with the provisions contained in Rules 62-620.325 and 62-620.345, F.A.C., if applicable, or to comply with any applicable effluent standard or limitation issued or approved under Section 301(b)(2)(C) and (D), 304(b)(2) and 307(a)(2) of the Clean Water Act (the Act), as amended, by change in the effluent standards, limitations, or water quality standards previously issued or approved. Revisions to the GWMOMR which involve the following shall be considered a modification to these Conditions and shall be processed in accordance with Section 403.516(1)(c), F.S., and Rule 62-17.211, F.A.C. as applicable.

- i. New major sources or deletion of existing major sources of wastewater;
- ii. Improvements made to existing, or new wastewater treatment facilities including those which provide for a new or expanded land application system which will result in an increase in the permitted capacity;
- iii. Incorporation of newly promulgated applicable rules which are not currently reflected in the License or promulgated rules which are more stringent than the existing conditions in the License;

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iv. Pollutants not addressed in the GWMOMR or these Conditions;

c. All other revisions or updates to the GWMOMR shall be submitted to the DEP Southwest District Office Industrial Wastewater Program and the DEP Southwest District Solid Waste Program as appropriate for review and approval with copies to the Siting Office. Review shall be in accordance with Section A, Condition XXI. Procedures for Post-Certification Submittals. Additionally, the GWMOMR may be updated to adjust effluent limitations or monitoring requirements should future Water Quality Based Effluent Limitation determinations, water quality studies, DEP approved changes in water quality standards, or other information show a need for a different limitation or monitoring requirement. The Department may develop a Total Maximum Daily Load (TMDL). Once a TMDL has been established and adopted by rule, the Department shall revise the GWMOMR or these Conditions to incorporate the final findings of the TMDL

d. Notwithstanding restrictions elsewhere in these conditions, the approved GWMOMR shall apply to both the certified and noncertified units at the facility, to the extent outlined therein. The requirements shall be fully enforceable on both the certified units and the uncertified units of the facility.

e. The licensee's discharge to ground water shall not cause a violation of water quality standards for ground waters at the boundary of the zone of discharge in accordance with Rules 62-520.400 and 62-520.420, F.A.C.

f. The licensee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in Rule 62-520.400, F.A.C., within the zone of discharge. [62-520.400 and 62-520.420(4)]

g. If the concentration of any constituent listed in GWMOMR, Condition I.B.3 in the natural background quality of the ground water is greater than the stated maximum, or in the case of pH is also less than the minimum, the representative background quality shall be the prevailing standard. [Chapter 62-520.420(2), F.A.C.]

h. The licensee shall provide verbal notice to the Department as soon as practical after discovery of a sinkhole within an area for the management or application of wastewater or sludge. The licensee shall immediately implement measures appropriate to control the entry of contaminants, and shall detail these measures to the Department in a written report within 7 days of the sinkhole discovery.

B. Within 180 days of the final order of certification for the Citrus Combined Cycle Project, DEF shall submit a revised GWMOMR to the Department for review and approval pursuant to Condition A.XX., Procedures for Post-Certification Submittals.

B. Water Quality Criteria Exemptions

1. The Licensee has been issued the attached water quality exemption for sodium (Attachment G), under Rule 62-520.500, F.A.C. The Licensee shall comply with the substantive provisions and limitations set forth in the sodium exemption as part of these Conditions. Such provisions shall be fully enforceable as conditions of this certification. Any violation of those provisions shall be a violation of these Conditions.

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2. In order for the Licensee to seek Conditions of Certification applying any additional water quality criteria different from those promulgated in rule, the following procedure shall be followed:

a. The Licensee must file a petition for modification with the DEP SCO including the alternate compliance level and demonstrations listed in 62-520.500, F.A.C.

b. The SCO will coordinate review by the affected DEP Division/District office under the procedures for modification set forth in 403.516, F.A.C.

c. The SCO shall issue a Notice of Intent and draft Final Order granting the petition, denying the petition, or granting the petition in part and modifying the Conditions of Certification accordingly. The Department will provide public notice of its intended action/s in the Florida Administrative Weekly along with an opportunity for an administrative hearing under Sections 120.569 and 130.57, F.S. The petitioner shall, on or about the same time that notice is published in the Florida Administrative Weekly, publish this same notice in a newspaper of general circulation in the area affected.

d. The Licensee shall submit a new request for each alternate compliance level of a water quality standard every 5 years from the time of original approval.

[Rules 62-520.500, and 62-500.510, F.A.C.]

C. Transformer and Electric Switching Gear

The foundations for any new or modified transformers, capacitors, and switching gear necessary for Crystal River Units 3, 4 and 5 to connect to the existing transmission system shall be constructed of an impervious material and shall be constructed of an impervious material and shall be constructed in such a manner to allow maximum collection and recovery of any spills or leakage of oily, toxic, or hazardous substances.

D. Public Water System

Any new or modified component of the potable water supply system shall be designed and operated in conformance with applicable Chapters of 62-550, 62-555, 62-560, and 62-699 F.A.C. Information as required in 62-555, F.A.C, shall be submitted to the Department prior to construction and operation of any new or modified components of the system. The operator of the potable water supply system shall be certified in accordance with Chapter 62-699, F.A.C. Potable water for Unit 3 shall continue to be provided by the separate potable water treatment system operated by Units 1 and 2 (PWS ID 6090601).

V. DEPARTMENT OF TRANSPORTATION- Facility-Wide (CREC Units 3-5 and CCCP Units 1 and 2)

A. Access Management to the State Highway System

Any access to the State Highway System will be subject to the requirements of Chapters 14-96, State Highway System Connection Permits, and 14-97 Access Management Classification System and Standards, F.A.C.

[Chapters 14-96 and 14-97, F.A.C.]

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B. Overweight or Overdimensional Loads

Operation of overweight or overdimensional loads by the applicant on State transportation facilities during construction and operation of the utility facility will be subject to safety and permitting requirements of Chapter 316, F.S., and Chapter 14-26, Safety Regulations and Permit Fees for Overweight and Overdimensional Vehicles, F.A.C..

[Chapter 316, F.S.; Chapter 14-26, F.A.C.]

C. Use of State of Florida Right of Way or Transportation Facilities

All usage and crossing of State of Florida right of way or transportation facilities will be subject to Chapter 14-46, Utilities Installation or Adjustment, F.A.C.; Florida Department of Transportation's (FDOT) Utility Accommodation Manual (Document 710-020-001); Design Standards for Design, Construction, Maintenance and Utility Operation on the State Highway System; Standard Specifications for Road and Bridge Construction; and pertinent sections of the FDOT's Project Development and Environmental Manual. US 19 has been identified as a Florida Intrastate Highway System (FIHS) and Strategic Intermodal System's (SIS) facilities. The placement of any transmission line or pipeline should take into consideration the planned widening of these facilities. The cost of relocating or reconstructing a transmission line or pipeline will be borne by the applicant to the extent required by Section 337.403, F.S., and Chapter 14-46, F.A.C.

[Sections 337.403 and 337-404, F.S.; Chapters 14-15 and 14-16, F.A.C.]

D. Standards

The manual on Uniform Traffic Control Devices; FDOT's Design Standards for Design, Construction, Maintenance and Utility Operation on the State Highway System; FDOT's Standard Specifications for Road and Bridge Construction; FDOT's Utility Accommodation Manual; and pertinent sections of the FDOT's Project Development and Environmental Manual will be adhered to in all circumstances involving the State highway System and other transportation facilities.

[Chapter 14-15, F.A.C.]

E. Drainage

Any drainage onto State of Florida right of way and transportation facilities will be subject to the requirements of Chapter 14-86, Drainage Connections, F.A.C., including the attainment of any permit required thereby.

[Chapter 14-86, F.A.C.]

F. Use of Air Space

Any newly proposed structure or alteration of an existing structure will be subject to the requirements of Chapter 333, F.S., and Rule 14-60.009, Airspace Protection,

SECTION B: SPECIFIC CONDITIONS

F.A.C. Additionally, notification to the Federal Aviation Administration (FAA) is required prior to beginning construction, if the structure exceeds notification requirements of 14 CFR Part 77, Objects Affecting Navigable Airspace, Subpart B, Notice of Construction or Alteration. Notification will be provided to FAA Southern Region Headquarters using FAA Form 7460-1, Notice of Proposed Construction or Alteration in accordance with instructions therein. A subsequent Determination by the FAA stating that the structure exceeds any federal obstruction standard of 14 CFR Part 77, Subpart C for any structure that is located within a 10-nautical-mile radius of the geographical center of a public-use airport or military airfield in Florida will be required to submit information for an Airspace Obstruction Permit from the FDOT or variance from local government depending on the entity with jurisdictional authority over the site of the proposed structure. The FAA Determination regarding the structure serves only as a review of its impact on federal airspace and is not an authorization to proceed with any construction. However, FAA recommendations for marking and/or lighting of the proposed structure are made mandatory by Florida law. For a site under FDOT jurisdiction, application will be made by submitting FDOT Form 725-040-11, Airspace Obstruction Permit Application, in accordance with the instructions therein.

[Chapter 333, F.S.; Chapter 14-60.009, F.A.C.]

G. Best Management Practices

Traffic control during facility construction and maintenance will be subject to the standards contained in the Manual on Uniform Traffic Control Devices; Chapter 14-94, Statewide Minimum Level of Service Standards, F.A.C.; FDOT's Design Standards for Design, Construction, Maintenance and Utility Operation on the State highway System; FDOT's Standard Specifications for Road and Bridge Construction; and FDOT's Utility Accommodation Manual, whichever is more stringent.

It is recommended that the applicant encourage transportation demand management techniques by doing the following:

1. Placing a bulletin board on site for car pooling advertisements.
2. Requiring that heavy construction vehicles remain onsite for the duration of construction to the extent practicable.

If the applicant uses contractors for the delivery of any overweight or overdimensional loads to the site during construction, the applicant should ensure that its contractors adhere to the necessary standards and receive the necessary permits required under Chapter 316, F.S., and Chapter 14-26, Safety Regulations and Permit Fees for Overweight and Overdimensional Vehicles, F.A.C.

[Chapter 316, F.S.; Chapter 14-26, F.A.C.]

VI. FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Unless previously permitted and approved by Florida Fish and Wildlife Conservation Commission, the Licensee is subject to the following:

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A. CREC Units 3-5

1. Listed Species Survey

Before land clearing and construction activities within the Certified Facility occur, the Licensee shall conduct a preliminary general field assessment for listed species which will note all habitat, occurrence or evidence of listed species. Areas assessed for listed species as part of the Environmental Resource Permit process do not need to be reassessed to satisfy this condition.

Listed species to be included in this survey shall include those listed as endangered, threatened or of special concern by Florida Fish and Wildlife Conservation Commission (FWC) or those listed as endangered or threatened by U.S. Fish and Wildlife Service (USFWS).

For listed species that, in the course of either the general field survey or the Environmental Resource Permit process, are identified or are determined to have the potential to occur, a more detailed assessment will be conducted in accordance with the following guidance:

a. A survey schedule based upon species specific survey requirements identified in USFWS/FWC guidelines and methodologies will be developed. Resources that may be consulted in conducting this assessment are available through the “Florida Wildlife Conservation Guide” at: <http://myfwc.com/conservation/value/fwcg/>. If no specific guidance exist, standard accepted survey protocol shall be utilized.

b. This survey shall be conducted by a person or firm that is knowledgeable and experienced in conducting flora and fauna surveys for listed species.

2. Listed Species Locations

Where any suitable habitat and evidence is found of the presence of listed species within the Certified Facility, the Licensee will report those locations to, and confer with, the appropriate regulatory agencies for possible additional pre-clearing surveys and to identify potential mitigation, or avoidance recommendations. If pre-clearing surveys are required, they shall be timed to be reasonably compatible with the construction schedule, considering the in-service date specified in the Public Service Commission’s need determination. The Licensee will not construct in areas where evidence of listed species was identified during the initial survey until the particular listed species issues have been resolved.

a. Listed Wildlife Species: If listed wildlife species are found, their presence shall be reported to the DEP Siting Coordination Office, the appropriate DEP District Office(s), the FWC's Office of Conservation Planning Services, the appropriate WMD, the appropriate local government(s) and the USFWS.

b. Listed Vegetation Species: If listed vegetation species are found on public land or water, their presence shall be reported to the DEP Siting Coordination Office and the Florida Department of Agriculture and Consumer Services (DACS). Listed wildlife species and listed vegetation species on public land or water shall not be disturbed, if feasible.

c. Species Management Plan: If avoidance is not feasible, the Licensee shall consult with DEP, FWC, and, if necessary, the USFWS for listed wildlife species, and with the DACS for listed vegetation species on public land or water, to determine the steps

SECTION B: SPECIFIC CONDITIONS

appropriate for the species involved which are to be taken to avoid, minimize, mitigate, or otherwise appropriately address impacts within each agency's respective jurisdiction. For wildlife species, these steps shall be memorialized in a Wildlife Management Plan and submitted to DEP, FWC, and the appropriate local government.

[Chapter 379, F.S.]

B. CCCP Units 1 and 2

1. Listed Species

The following table contains state and federally listed species that occur in the State of Florida and may occur within the Duke Energy Florida's Citrus County Combined Cycle Project Site and associated linear facilities right-of-way. The table below contains species that are potentially impacted by the activities proposed on the Duke Energy Florida Citrus County Combined Cycle Project Site and associated linear facilities right-of-way. Therefore, these conditions of certification apply to the species listed in these tables.

Table 1. Terrestrial Species

Common Name	Scientific Name	Status
Gopher frog	<i>Lithobates capito</i>	SSC
American alligator	<i>Alligator mississippiensis</i>	FT(SA)*
Eastern indigo snake	<i>Drymarchon corais couperi</i>	FT
Gopher tortoise	<i>Gopherus polyphemus</i>	ST
Bald eagle	<i>Haliaeetus leucocephalus</i>	**
Florida sandhill crane	<i>Grus canadensis pratensis</i>	ST
Limpkin	<i>Aramus guarauna</i>	SSC
Little blue heron	<i>Egretta caerulea</i>	SSC
Red-cockaded woodpecker	<i>Picoides borealis</i>	FE
Snowy egret	<i>Egretta thula</i>	SSC
Southeastern American kestrel	<i>Falco sparverius paulus</i>	ST
Tricolored heron	<i>Egretta tricolor</i>	SSC
White ibis	<i>Eudocimus albus</i>	SSC
Wood stork	<i>Mycteria americana</i>	FT
Florida black bear	<i>Ursus americanus floridanus</i>	***
Florida mouse	<i>Peromyscus floridanus</i>	SSC
Sherman's fox squirrel	<i>Sciurus niger shermani</i>	SSC

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Table 2. Coastal/Marine Species

Gulf sturgeon	<i>Acipenser oxyrhynchus desotoi</i>	FT
Green sea turtle	<i>Chelonia mydas</i>	FE
Hawksbill sea turtle	<i>Eretmochelys imbricata</i>	FE
Kemp's ridley sea turtle	<i>Lepidochelys kempii</i>	FE
Leatherback sea turtle	<i>Dermochelys coriacea</i>	FE
Loggerhead sea turtle	<i>Caretta caretta</i>	FT
Least tern	<i>Sterna antillarum</i>	ST
West Indian manatee	<i>Trichechus manatus</i>	FE

FE = federally designated endangered.

ST = state-designated threatened.

FT = federally designated threatened.

SCC = species of special concern.

*Due to similarity to another federally threatened species.

**While the bald eagle has been both state and federally delisted, it is still governed by the state bald eagle management plan and the federal Bald and Golden Eagle Protection Act.

***The Florida black bear has been delisted from the state's Endangered and Threatened Rule; however, the species is still governed by the Florida Black Bear Management Plan and protected by the bear conservation rule.

Note: Florida's Endangered and Threatened species rule changed in November 2010. The list is now comprised of federally designated endangered and threatened species or state-designated threatened species. Additionally, the Species of Special Concern (SSC) designation has been retained in the rule until those species designated as SSC are evaluated for listing as state-designated threatened species.

[Article IV, Sec. 9, Florida Constitution; Chapters 68A-27 and 68A-16, Florida Administrative Code (F.A.C.)]

2. General Listed Species Survey

a. The Licensee shall coordinate with the Florida Fish and Wildlife Conservation Commission (FWC) to obtain and follow the current survey protocols for all listed species that may occur within the Duke Energy Florida's Citrus County Combined Cycle Project Site, associated non-linear facilities, and associated linear non-transmission facilities rights-of-way, as well as accessible appropriate buffers within Duke Energy Florida property or rights-of-way as defined by the listed species' survey protocols, prior to conducting detailed surveys.

b. Surveys shall be conducted prior to clearing and construction in accordance with the survey protocols. The results of those detailed surveys shall be provided to FWC in a report, and coordination shall occur with the FWC on appropriate impact avoidance, minimization, or mitigation methodologies.

[Article IV, Sec. 9, Florida Constitution; Section 379.229 Florida Statutes (F.S.); and Rule 68A-27, F.A.C.].

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3. Specific Listed Species Survey

Before land clearing and construction activities within the Duke Energy Florida's Citrus County Combined Cycle Project Site and associated linear facilities right-of-way occurs, the Licensee shall conduct an assessment for terrestrial listed species and shall note all habitat, occurrence or evidence of listed species. Listed species to be included in this survey shall include those species listed in Table 1 in paragraph A above. Wildlife surveys shall be conducted during the reproductive or "active" season for each species that falls before the projected clearing activity schedule unless otherwise approved by FWC. For species that are difficult to detect, the Licensee may make the assumption that the species is present and plan appropriate avoidance/mitigation measures after consultation with FWC. The Licensee will submit avoidance/mitigation measures for FWC post-certification review and approval at least 60 days prior to commencing clearing or construction activities within the surveyed area. The surveys required by these conditions of certification may be conducted prior to issuance of the final order of certification, in which case this condition would be considered satisfied.

a. This survey shall be conducted in accordance with U.S. Fish and Wildlife Service (USFWS), National Marine Fisheries Service (NMFS) or FWC guidelines and methodologies by a person or firm that is knowledgeable and experienced in conducting flora and fauna surveys for each potentially occurring listed species.

b. This survey shall identify any wading bird colonies within the Duke Energy Florida's Citrus County Combined Cycle Project Site, associated non-linear facilities, and associated linear non-transmission facilities rights of way that may be affected.

c. This survey shall identify locations of breeding sites, nests, and burrows for listed wildlife species. Nests and burrows shall be recorded with global positioning system (GPS) coordinates, identified on an aerial photograph, and submitted with the final listed species report. Although nests and burrows may be recorded individually with GPS, the FWC prefers that any applicable protection radii surrounding groups of nest sites and burrows be included on a site-specific basis, rather than around individual nests and burrows, and be physically marked so that clearing and construction shall avoid impacting them.

d. This survey shall include an estimate of the acreage and percent cover of each existing vegetation community (Florida Land Use, Cover and Forms Classification System, or FLUCFCS, at the third degree of detail) of each community that is contained within the Duke Energy Florida's Citrus County Combined Cycle Project Site, associated non-linear facilities, and associated linear non-transmission facilities rights of way prior to land clearing and construction activities using a geographic information system (GIS). Examples of such wildlife-based habitat classification schemes include Florida's State Wildlife Action Plan (FWC 2012), Descriptions of Vegetation and Land Cover Types (FWC 2004), or Natural Communities Guide (Florida Natural Areas Inventory 2010)*.

[Article IV, Sec. 9, Florida Constitution; Section 379.2291 F.S.; and Rules 68A-27, 68A-4, and 68A-16, F.A.C.]

*Florida Fish and Wildlife Conservation Commission. 2012. Florida's State Wildlife Legacy Initiative: Florida's State Wildlife Action Plan. Tallahassee, Florida.

Florida Natural Areas Inventory. 2010. Guide to the natural communities of Florida: 2010 edition. Florida Natural Areas Inventory, Tallahassee, Florida.

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Stys, B., R. Kautz, D. Reed, M. Kertis, R. Kawula, C. Keller, and A. Davis. 2004. Florida vegetation and land cover data derived from 2003 Landsat ETM+ Imagery. Florida Fish and Wildlife Conservation Commission, Tallahassee, Florida.

4. Listed Species Location

Where any suitable habitat or evidence is found of the presence of listed species, including but not limited to those specified in 5 through 10 below, within the Duke Energy Florida's Citrus County Combined Cycle Project Site and associated linear facilities' right-of-way, the Licensee shall report those locations to, and confer with, the FWC to determine whether additional pre-clearing surveys are warranted, and to identify potential mitigation, or avoidance recommendations. If pre-clearing surveys are required by FWC as appropriate and as specified in these conditions of certification, they shall occur in the reproductive season prior to the anticipated date for the start of construction within the Duke Energy Florida's Citrus County Combined Cycle Project Site and associated linear facilities' right-of-way. The Licensee shall not construct in areas where evidence of listed species was identified during the initial survey until the particular listed species issues have been resolved as follows:

a. Listed Wildlife Species: If listed wildlife species are found, their presence shall be reported to the DEP Siting Coordination Office, the FWC, USFWS, and NMFS.

b. Species Management Plan: If total avoidance of state-listed wildlife species is not feasible, the Licensee shall consult with the FWC to determine the steps appropriate for the species involved to avoid, minimize, mitigate, or otherwise appropriately address potential impacts. For wildlife species, these steps shall be memorialized in a Species Management Plan and submitted to the FWC for review and approval.

[Article IV, Sec. 9, Florida Constitution; Section 379.2291 F.S.; and Rule 68A-27, F.A.C.]

5. Bald Eagle

a. The Licensee shall avoid impacts to bald eagle (*Haliaeetus leucocephalus*) nests where possible. If construction activities cannot be avoided within a 660-foot nest buffer zone, construction activities shall be conducted consistent with the FWC Eagle Management Guidelines as outlined in the FWC-approved Bald Eagle Management Plan dated April 9, 2008 (or any subsequent FWC-approved versions). In areas where bald eagle nests are present, all reasonable and practicable efforts shall be made to avoid construction activities during the nesting season (October 1 - May 15, or when eagles are present before October 1 or after May 15).

b. In accordance with the FWC Eagle Management Guidelines, for construction areas that fall within 330 feet of an active or alternate bald eagle nest, as defined in the Bald Eagle Monitoring Guidelines, construction activities shall be conducted only during the non-nesting season (May 16 - September 30). Any construction activities that fall within 660 feet of the nest during the nesting season shall be conducted following USFWS-approved Bald Eagle Monitoring Guidelines, dated 2007, or subsequent USFWS-approved versions.

c. In areas where adverse impacts to nests cannot be avoided, resulting in nest disturbance, the information required for an FWC Eagle Permit shall be

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obtained from the FWC, as authorized by Rule 68A-16.002, F.A.C., and minimization and conservation measures outlined in the FWC Bald Eagle Management Plan shall be followed, as applicable.

[Article IV, Sec. 9, Florida Constitution; Rules 68A-27, and 68A-16.002, F.A.C.]

6. Gopher Tortoise

a. The Licensee shall conduct surveys for gopher tortoises (*Gopherus polyphemus*), in accordance with the FWC-approved Gopher Tortoise Management Plan (as revised) and the FWC-approved Gopher Tortoise Permitting Guidelines, or subsequent FWC-approved versions of the Plan or Guidelines. A burrow survey covering a minimum of 15% of the potential gopher tortoise habitat to be impacted by development is required in order to apply for a relocation permit. Immediately prior to capturing tortoises for relocation, a 100% survey is required to effectively locate and mark all potentially occupied tortoise burrows and to subsequently remove the tortoises. Burrow survey methods are outlined in Appendix 4 of the Gopher Tortoise Permitting Guidelines, "Methods for Locating Gopher Tortoise Burrows on Sites Slated for Development." Surveys must be conducted as described in F.3 below. Surveys shall not be conducted within 30 days of any ground disturbance or clearing activities on the donor site. All surveys completed by authorized agents or other licensees are subject to field verification by the FWC.

b. The FWC is not required to provide a monitoring compliance assessment for activities that occur more than 25 feet from a gopher tortoise burrow entrance, provided that such activities do not harm gopher tortoises or violate rules protecting gopher tortoises. Examples of such violations noted in the past by the FWC include, but are not limited to, killing or injuring a tortoise more than 25 feet away from its burrow, harassing a tortoise by blocking access to its burrow, and altering gopher tortoise habitat to such an extent that resident tortoises are taken.

c. The Licensee shall coordinate with and provide the FWC detailed gopher tortoise relocation information in accordance with the FWC-approved Gopher Tortoise Management Plan and Gopher Tortoise Permitting Guidelines as a post-certification submittal. This information shall provide details on the location for on-site recipient areas and any off-site FWC-approved temporary contiguous habitat, as well as appropriate mitigation contributions per tortoise, as outlined in the Gopher Tortoise Permitting Guidelines.

d. Any commensal species observed during the burrow excavations that are listed by the FWC shall be handled in accordance with the applicable guidelines for that species in accordance with Appendix 9 of the Gopher Tortoise Permitting Guidelines.

e. To the maximum extent practicable or feasible, all staging and storage areas shall be sited to avoid impacts to gopher tortoise burrows and habitat.

[Article IV, Sec. 9, Florida Constitution; Section 379.2291, F.S.; and Rule 68A-27, FA.C.]

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7. Least Tern

a. The Licensee shall coordinate with the FWC before construction to develop and implement an FWC-approved plan to avoid attracting least terns to the construction site as a result of the temporary placement of gravel substrates.

[Article IV, Sec. 9, Florida Constitution; Section 379.2291, F.S.; and Rule 68A-27, FA.C.]

8. Florida Black Bear

a. The Licensee shall take proper precautions during clearing and construction to protect Florida black bears from accidental injury due to conditions on site during construction. These precautions may include:

1. Covering open trenches while dormant to reduce the likelihood bears becoming trapped

2. Creating areas within the trench to aid in exiting, such as berms or sides with a shallow gradient to allow the bear or other animal to escape

3. Electric fencing along the construction boundary, if warranted due to the interaction with bears or evidence bears are visiting construction areas.

b. FWC literature concerning the use of electric fencing as a black bear deterrent has been provided to the Licensee and this effort, if necessary, shall be coordinated with an FWC biologist.

c. If there is any chance that food waste will be stored on or near the site at any time, bear-resistant garbage containers or dumpsters shall be used.

d. Additional construction policies and practices to protect bears shall be used whenever feasible. These include:

1. Prohibit clearing, blasting and burning of forested habitat during the December-March denning season for bears while in a primary or secondary bear range, if evidence of bear usage of forested areas within the construction footprint is discovered.

2. Require clean construction sites with wildlife-resistant containers for workers to use for food-related and other wildlife attractant refuse; require frequent trash removal and the use of proper food storage and removal on work sites.

3. Adjust trucking activities and material delivery schedule to mandate slower speed in wooded zones, at dawn and dusk, and during the June and July breeding season for bears.

4. Conduct frequent and unannounced site inspections to ensure that proper food storage (if any) and garbage/trash removal is being provided.

[Article IV, Sec. 9, Florida Constitution; Rule 68A-4.009(b), FA.C.]

9. Eastern Indigo Snake

a. The Licensee shall consult with the USFWS and the FWC to develop a plan to avoid the “take” of eastern indigo snakes on Duke Energy Florida’s Citrus

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County Combined Cycle Project Site and associated linear facilities right-of-way during construction and operation.

[Article IV, Sec. 9, Florida Constitution; Rule 68A-27, FA.C.]

10. Florida Manatee

Within 180 days following certification of the CCC Project or such other date agreed upon by DEF and FWC, DEF will submit to FWC and the Department a CCC Project Manatee Monitoring Plan (MMP), for review and approval in accordance with Condition XX, Postcertification Submittals. The MMP will address the potential loss of viable artificial thermal refuge in the discharge canal and potential impacts to manatees utilizing the canal and, unless otherwise agreed to by DEF and FWC, will include the following components:

a. Manatee identification cataloging and visual monitoring of manatees utilizing the Crystal River Energy Center (CREC) discharge canal under these general guidelines:

1. Monitoring will be performed during at least one winter period prior to cessation of all once-through condenser cooling water flow at the CREC. Duke Energy Florida will endeavor to monitor for two winter periods based on the timing of certification and approval of the Manatee Management Plan.

2. Monitoring after full cessation of once-through condenser cooling water flow during two or three winter periods, depending on observed manatee response.

3. Monitoring protocols will include a visual assessment of external cold-stress signs along with behavioral assessments of animals in the field.

4. Discharge canal temperature monitoring, including ambient temperature, cooling tower blowdown discharge temperature, and temperature of any significant natural thermal spring seeps present in the discharge canal.

5. Plan communications, contacts, response to cold-stress animals, and reporting requirements.

6. For all project components in and/or over water accessible to manatees, Duke Energy Florida will implement the Standard Manatee Conditions for In-Water Work, July 2011 and/or other specific Manatee Management Plan requirements.

[Article IV, Sec. 9, Florida Constitution; and Rule 68A-27, FA.C.]

11. Smalltooth sawfish, Gulf sturgeon, Sea turtles

a. For all project components in and/or over water accessible to smalltooth sawfish, Gulf sturgeon, or sea turtles, Duke Energy Florida will implement the Sea Turtle and Smalltooth Sawfish Construction Conditions, March 2006.

[Article IV, Sec. 9, Florida Constitution; and Rule 68A-27, FA.C.]

12. Biological Survey and Monitoring Conditions

The Licensee may request modification of the following applicable conditions upon issuance by the Department of Environmental Protection, in consultation with the FWC, of Final National Pollution Discharge Elimination System permit FL0000159-014-IWS.

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a. Discharge Monitoring - Within 180 days following certification of the Citrus Combined Cycle (CCC) Project or such other date as agreed to by Duke Energy Florida and FWC, Duke Energy Florida will submit to FWC and the Department a CCC Project Discharge Monitoring Plan (DMP) for review and approval in accordance with Condition XX, Postcertification Submittals. Unless otherwise agreed to by Duke Energy Florida and FWC, the DMP will include the following components:

1. Preoperational surveys of seagrass and hardbottom resources starting 1 year in advance of the CCC Project beginning commercial operation.
2. Postoperational surveys for 1 year following the shutdown of Crystal River Units 1 and 2 in conjunction with commercial operation of the CCC Units.
3. Surveys and monitoring of stations within the historical thermally-affected areas of Crystal Bay with a pre- and postoperational comparison of survey and monitoring results.
4. Schedules, specific survey and monitoring locations, sampling frequencies and methods, and specific parameters to be surveyed.
5. Surveys will include protocols to monitor seagrass and hardbottom resources. Monitoring of physical and chemical parameters shall include surface and bottom temperature, salinity, dissolved oxygen, and water column transparency data collection.
6. Preparation of reports, including all data and statistical analyses resulting from the surveys and monitoring, will be included as part of the DMP.

b. Intake Monitoring - Within 180 days following certification of the CCC Project or such other date as agreed upon by FWC and Duke Energy Florida, Duke Energy Florida will submit to FWC and the Department a CCC Project Intake Characterization and Monitoring Plan (ICMP) for review and approval in accordance with Condition XX, Postcertification Submittals. Unless otherwise agreed to by Duke Energy Florida and FWC, the ICMP will include the following components:

1. A detailed outline and schedule for the submittal of ICMP components.
2. A narrative description of source water bodies, physical water body configuration data, location and configuration of the intake structure, operation of the cooling water system, and proportions of water used.
3. Source water baseline biological characterization data including the relative diversity and abundance of species potentially susceptible to impingement and entrainment based on existing identified historic records and data, including any threatened and endangered or other protected species.
4. Description and schedule for any proposed additional studies or data collection, if needed, to fill any potential data gaps in support of the biological characterization component.
5. A narrative description of the impingement and entrainment mortality reduction plan utilizing a closed-cycle recirculating cooling system and

SECTION B: SPECIFIC CONDITIONS

cooling water intake structure that has a maximum through-screen design intake velocity of 0.5 fps or less.

6. Demonstration requirements that the closed-cycle cooling system flow reduction and cooling water intake structure are operating and functioning as designed.

[Article IV, Sec. 9, Florida Constitution; and Rule 68A-27, F.A.C.]

VII. DEPARTMENT OF STATE – DIVISION OF HISTORICAL RESOURCES – Facility-Wide (CREC Units 3-5 and CCCP Units 1 and 2)

Unless previously permitted and approved by Division of Historical Resources, the Licensee is subject to the following:

A. The Licensee shall conduct a survey of sensitive cultural resource areas, as determined in consultation with the Department of State, Division of Historical Resources (DHR). A qualified cultural resources consultant will identify an appropriate work plan for this project based on a thorough review of the Certified Facility. Prior to beginning any field work, the work plan will be reviewed in consultation with DHR. Upon completion of the survey, the results will be compiled into a report which shall be submitted to DHR. If feasible, sites considered to be eligible for the National Register shall be avoided during construction of the project and access roads, and subsequently during maintenance. If avoidance of any discovered sites is not feasible, impact shall be mitigated through archaeological salvage operations or other methods acceptable to DHR, as appropriate.

B. If historical or archaeological artifacts or features are discovered at any time within the Certified Facility, the Licensee shall notify the appropriate DEP District office (s) and the DHR, R.A. Gray Building, 500 S. Bronough Street, Rm 423, Tallahassee, Florida 32399-0250, telephone number (850) 487-6333, and the Licensee shall consult with DHR to determine appropriate action.

[Sections 267.061, 403.531, and 872.02, F.S.]

VIII. DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES – Facility-Wide (CREC Units 3-5 and CCCP Units 1 and 2)

Only herbicides registered by the U.S. Environmental Protection Agency and the Florida Department of Agriculture and Consumer Services shall be used at certified facilities. Herbicide applications will be in accordance with label directions and will be carried out by a licensed applicator, in compliance with all federal, state and local regulations. Herbicide applications shall be selectively applied to targeted vegetation. Broadcast application of herbicide shall not be used unless effects on non-targeted vegetation are minimized.

Directly associated transmission lines from the facility electric switchyard to existing transmission lines shall be maintained in accordance with the application and the appropriate state and federal regulations concerning use of herbicides.

[Chapter 487, F.S.]

IX. SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT - Facility Wide (CREC Units 3-5 and CCCP Units 1 and 2)

A. Withdrawals, Water Supply Plan & Water Use Summary Report

SECTION B: SPECIFIC CONDITIONS

1. DEF is authorized to withdraw groundwater for construction, operation, maintenance, decommissioning, and/or demolition of Crystal River Energy Complex (CREC) Units 1, 2, 3, 4, and 5, and Citrus Combined Cycle (CCC) Units 1 and 2, as specified in the Water Supply Plan & Specific Conditions attached as Attachment J to these Conditions of Certification. These withdrawals may be reduced by the SWFWMD based on information submitted by the Licensee in its Annual Water Use Summary Report, pursuant to subsection A.2 below.

2. SWFWMD and DEF recognize that future planned activities at the CREC may result in a reduction in the groundwater demand for the facility. By April 1 of each year, following the certification of the CCC Project, DEF shall prepare and submit to SWFWMD, for review and approval, an Annual Water Use Summary Report (Report) for the preceding calendar year that confirms the continued water use allocations identified in Attachment J or any reductions in demand. The report shall include information documenting water demands and updated demand projections for CREC Units 1, 2, 3, 4, and 5 and CCC Units 1 and 2. The Report shall include, but not be limited to, graphs and narratives describing water use at CREC in relation to operation, retirement, or decommissioning of existing generating units, operation of new units, use of alternative water supplies, and other factors that affect water use, and events in the upcoming year that might impact water use. If appropriate, where alternative water sources such as reclaimed water have been implemented by DEF, the Report shall identify allocated quantities to be authorized for standby purposes. Any reductions in demand shall be reflected in the allocations and other appropriate sections of Attachment J. Any planned or proposed increase in demand shall be reviewed as a modification to this certification. The first annual report shall be developed in coordination with the SWFWMD Water Use Permit Bureau to ensure agreement with the report content prior to submittal to the SWFWMD for approval.

3. All groundwater withdrawals associated with CREC Units 1, 2, 3, 4, and 5, and CCC Units 1 and 2 are intended to be consolidated and authorized under these Conditions of Certification rather than via separate water use permit(s). Therefore, within 30 days after the expiration of the time for filing an appeal of the final order of certification for the Citrus CCC Project which includes this Condition of Certification consolidating the facility water use or, if appealed, within 30 days after the final resolution of all appeals, DEF shall submit a request to administratively cancel Water Use Permit No. 20004695.004 issued by SWFWMD and such permit shall be administratively cancelled by SWFWMD pursuant to rule 40D-2.341(3), Florida Administrative Code.

4. The Licensee shall comply with all monitoring, reporting and compliance requirements applicable to CREC Units 1, 2, 3, 4, and 5, as well as the CCC Units 1 and 2 attached as Attachment J to these Conditions of Certification. Such provisions shall be fully enforceable as conditions of this certification. Any violation of such provisions shall be a violation of these Conditions of Certification. The requirements of the Plan shall include the following:

- a). Withdrawal quantities and facilities;
- b). Distribution Flexibility;
- c). Environmental monitoring to evaluate the relative condition of surface waters and wetlands in areas affected by water withdrawals;

SECTION B: SPECIFIC CONDITIONS

d). Compliance reporting at 10 year intervals to ensure that groundwater withdrawals are continuing to meet the requirements of these Conditions of Certification and the substantive requirements of Chapter 40D-2, Florida Administrative Code, and SWFWMD's Water Use Permit Manual Part B, Basis of Review;

e). Pumpage and meter reporting;

f). Water quality sampling;

g). Water level monitoring; and

h). Rainfall monitoring

5. The Annual Water Use Summary Report and the Water Supply Plan & Special Conditions (Attachment J) shall be reviewed in accordance with General Condition XX.

6. 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.

7. All timeframes in these Conditions of Certification may be altered by agreement of SWFWMD and DEF without modification of these Conditions of Certification.

8. Within sixty (60) days of Certification of CCC Units 1 and 2, the Licensee shall designate a point of contact 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 and submitted to the SWFWMD Water Use Permit Bureau.

B. Alternative Water Supply Investigation

The Licensee shall investigate the feasibility of using additional reclaimed water or other alternative water supplies as a water source and submit a report to the SWFWMD Water Use Permit Bureau describing the findings of the feasibility investigation no later than April 1, of the 5th anniversary of the effective date of the Final Order of certification for the Citrus Combined Cycle Project and at 5 year intervals thereafter. The report shall contain an analysis of potential alternative water supply sources in the area, including the location of those sources, the quantity of water available, the projected date(s) of availability, and costs associated with obtaining and transporting the reclaimed water or alternative water supplies to the CREC or CCC facility. At such time as the SWFWMD determines that use of additional alternative water supplies are environmentally, technically, and economically feasible, an implementation schedule shall be developed and these Conditions of Certification shall be modified to reduce, by the amount of additional reclaimed water, the quantity of ground water authorized for consumption by the site.

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, as determined by SWFWMD, that the use of the lower quality water source is not economically, environmentally, or technologically feasible, in accordance with the SWFWMD's Water Use Permit Applicant's Handbook, Part B, Sections 2.4.1.

SECTION B: SPECIFIC CONDITIONS

C. Wells

1. Any wells not in use, and in which pumping equipment is not installed shall be capped or valved in a water tight manner in accordance with Chapter 62-532.500(3)(a)(4), F.A.C. (568)

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; and
- 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 of any new or relocated wells, Licensee shall submit to the SWFWMD Water Use Permit Bureau, the specific locations of any new or relocated wells, 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-ell constant rate test shall be performed on one or more of the following: SWFWMD 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 these 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.

D. Water Conservation

1. Within 90 days of certification issuance, the Licensee shall submit a facility-wide Water Conservation Plan to the SWFWMD for review and approval that includes practices currently employed or planned. For planned components, the Plan shall include an estimated time-frame for implementation for each component. The Plan must document that technically and economically feasible water conservation opportunities have been or will be employed.

X. CITRUS COUNTY

A. CREC Units 3-5

1. Noise

Construction noise shall not exceed noise criteria or any applicable requirements of Citrus County. To mitigate the effects of noise produced by any steam blowout

SECTION B: SPECIFIC CONDITIONS

of steam boiler tubes, the Licensee shall conduct reasonable public awareness campaigns prior to such activities to forewarn the public that may be affected by the noise of the estimated time and duration of the noise.

2. Screening

The Licensee shall provide screening of the site to the extent feasible through the use of aesthetically acceptable structures, vegetated earthen walls and/or existing or planted vegetation. The Licensee shall develop the site so as to retain the buffer of natural vegetation as described in the Units 4 and 5 application.

3. Odor Control

The Licensee shall employ proper odor control techniques to minimize odor and shall employ control techniques sufficient to prevent nuisance conditions which interfere with enjoyment of residents of adjoining property.

B. CCCP Units 1 and 2

1. Compliance with Building Code and Floodplain Management Regulations

This certification shall not affect in any way the right of Citrus County to require that construction be in compliance with applicable Citrus County building construction code provisions and floodplain management regulations or to charge appropriate fees required under applicable Citrus County requirements in Articles I and VI, Chapter 18, and Citrus County Code of Ordinances (dated 6-11-13), for construction of the administration building/warehouse. Duke Energy Florida (DEF) shall not, however, be required to obtain separate permits or approvals from Citrus County.

A. No later than 180 days following certification, or such later date as agreed upon by DEF and Citrus County, DEF shall meet with Citrus County to discuss a mutually agreeable timeline and process for completion of the inspections of the administration building/warehouse required by Section 18-10 and for submittal of final certification for elevation as required by Section 18-200 for Citrus County Code of Ordinances (dated 6-11-13).

B. All applicable fees related to inspection of the administration building/warehouse pursuant to Section 18-9, Citrus County Code of Ordinances (dated 6-11-13), shall be paid prior to occupancy of the administration building and warehouse. *[Section 403.511(1), and Section 403.511(4), Florida Statutes; Articles I and VI, Chapter 18, Citrus County Code of Ordinances (dated 6-11-13)]*

2. Impact Fees—DEF shall pay applicable impact fees, if any, prior to occupancy of the administration building and warehouse. The amount of impact fees shall be based upon the impact fee schedule in effect in Citrus County as of the date of the final order of certification, Impact fees, if any, shall be assessed only on the administration building/warehouse.

[Section 403.511(4), Florida Statutes; Citrus County Ordinance No. 2001-A03; Citrus County Administrative Regulation AR: 13.04-4; Citrus County Ordinance No. 2015-A02, amending ordinance 2001-A03 by providing for temporary suspension of impact fees]

3. Environmental Resources—DEF shall provide copies of any post-certification submittals, if any, required by General Condition A.XXVII (“Environmental Resources”) to Citrus County for informational purposes.

SECTION B: SPECIFIC CONDITIONS

[Section 6310, Citrus County Land Development Code]

4. Tree Preservation and Mitigation—DEF shall comply with the Tree Preservation and Mitigation Plan dated January 5, 2015. DEF shall make the payment to the Citrus County Landscape Enhancement Fund required by the Tree Preservation and Mitigation Plan prior to the commencement of construction of the electrical power plant, including associated facilities.

[Section 5700, et seq., Citrus County Land Development Code]

5. Noise – DEF shall comply with sound level limits contained in the Citrus County Code of Ordinances.

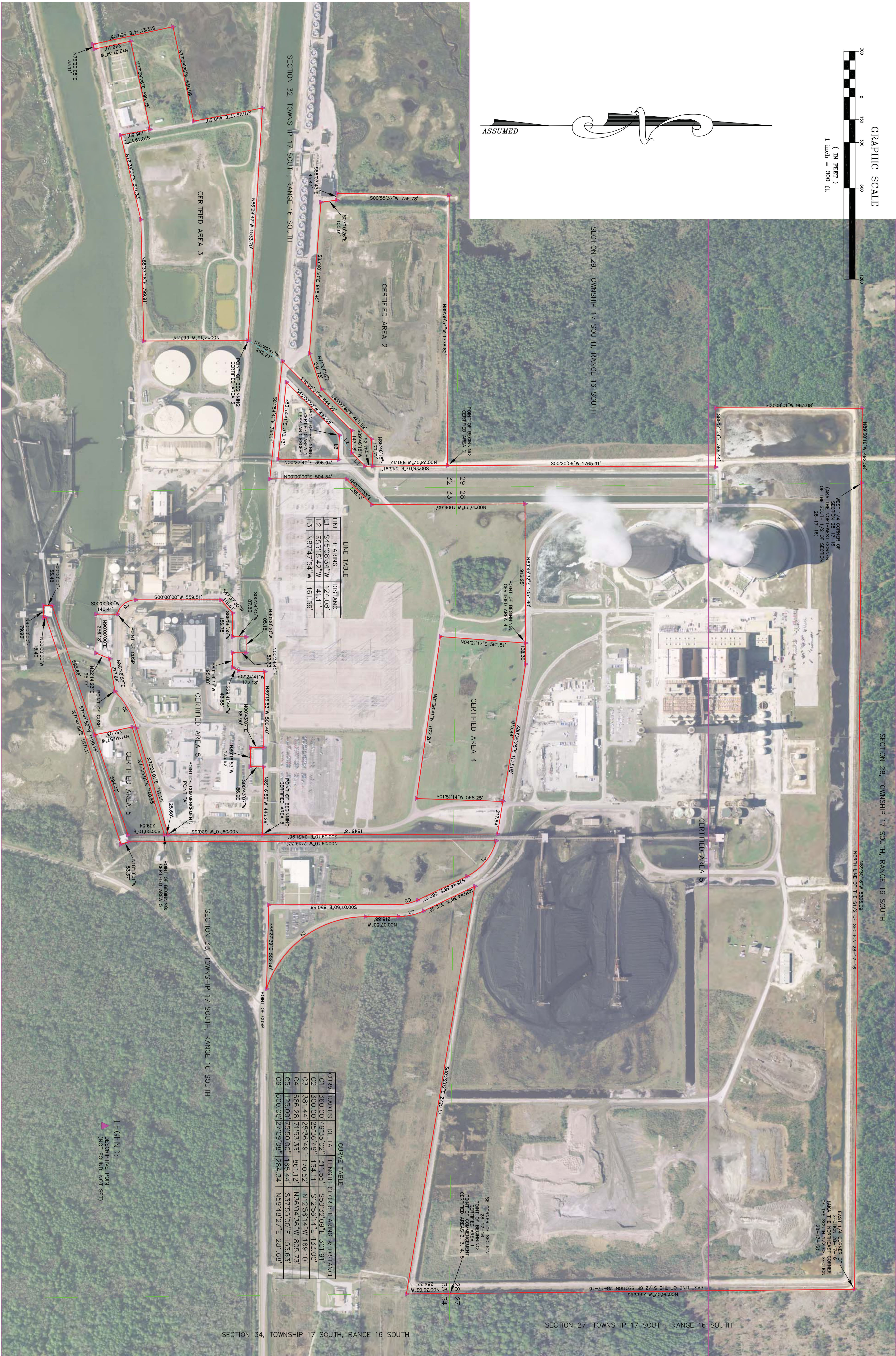
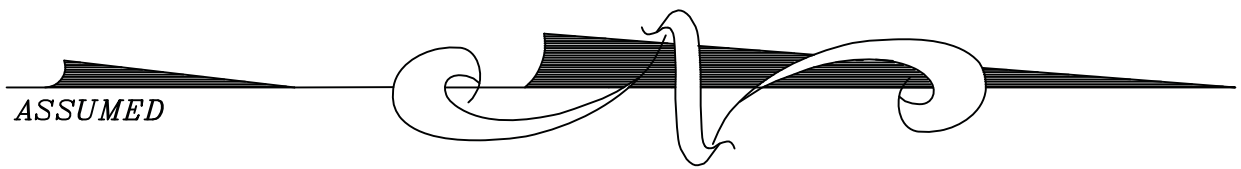
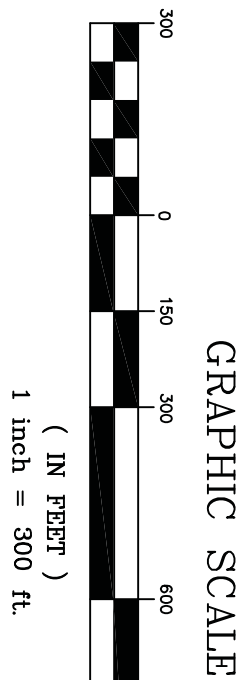
[Article II. Noise, Chapter 21, Part II - Citrus County, Florida Code of Ordinances]

HISTORY

Certification Issued 11/21/78; signed by Governor Askew
Modified 02/22/80; signed by Governor Graham
Modified 05/22/80; signed by Secretary Varn
Modified 05/04/82; signed by Secretary Tschinkel
Modified 06/29/82; signed by Governor Graham
Modified 02/02/84; signed by Secretary Tschinkel
Modified 07/03/84; signed by Governor Graham
Letter Modification 03/28/88; signed by Hamilton Oven Jr.
Modified 06/10/96; signed by Secretary Wetherell
Modification Denial 03/02/98; signed by Secretary Wetherell
Modification 02/01/05; signed by Program Administrator Oven
Modified 06/22/06; signed by Program Administrator Oven
Modified 11/29/07; signed by Program Administrator Halpin
Modified 08/07/08; signed by Program Administrator Halpin
Modified 08/28/08; signed by Governor Crist
Modified 07/09/09 signed by Program Administrator Halpin
Modified 11/30/09 signed by Program Administrator Halpin
Modified 1/15/10; signed by Program Administrator Halpin
Modified 05/14/10; signed by Program Administrator Halpin
Modified 02/08/12; signed by Program Administrator Mulkey
Modified 08/01/12; signed by Program Administrator Mulkey
Certification Issued xx/xx/xx; signed by XXXXXXXXXXXX

Attachments

Attachment A



NOTE:
SEE SHEET 1 OF 2 FOR LEGAL DESCRIPTIONS,
SURVEYORS NOTES, AND CERTIFICATION. NOT VALID
UNLESS ACCOMPANIED BY SHEET 1 OF 2.

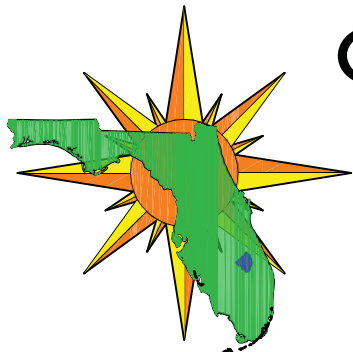
SKETCH AND LEGAL DESCRIPTIONS FOR PROGRESS ENERGY CRYSTAL RIVER

CITRUS COUNTY, FLORIDA

Project No. 10120_A02 Field Book , Page (SEE FILE) Drawing Date: 01/17/2011

Scale: 1"= 300' Field Date: N/A Sheet: 2 of 2

DATE:	REVISION



GulfWest Surveying, Inc.
Professional Surveyors and Mappers
9469 W. Green Bay Lane
Crystal River, Florida 34428
Ph: 352.563.1252 Fax: 352.563.1253

LEGAL DESCRIPTION: (CERTIFIED AREA 1)

A PARCEL OF LAND LYING IN AND BEING A PORTION OF SECTIONS 28, 29, 32, AND 33 OF TOWNSHIP 17 SOUTH, RANGE 16 EAST, CITRUS COUNTY, FLORIDA AND BEING FURTHER DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET; THENCE S00°28'07"E, 543.91 FEET; THENCE S45°08'34"W, 124.08 FEET; THENCE S89°46'18"W, 147.18 FEET; THENCE S45°05'31"W, 644.36 FEET; THENCE S83°54'41"E, 780.11 FEET; THENCE N00°01'00"E, 504.34 FEET; THENCE N45°00'55"E, 238.13 FEET; THENCE N00°15'39"W, 1,006.65 FEET; THENCE N89°45'32"E, 1,054.60 FEET; THENCE S80°35'25"E, 1133.08 FEET; THENCE S00°09'10"E, 2,431.98 FEET; THENCE S71°41'59"W, 1,580.16 FEET; THENCE S00°00'00"E, 55.48 FEET; THENCE S00°00'00"E, 79.93 FEET; THENCE N00°09'10"W, 15.40 FEET; THENCE S71°14'19"E, 1,571.17 FEET; THENCE N1°18'01"W, 53.37 FEET; THENCE N00°09'10"W, 2,418.33 FEET TO POINT ON A CURVE; SAID CURVE BEING CONCAVE TO THE SOUTHWESTERLY, HAVING A CENTRAL ANGLE OF 49°35'02" AND A RADUIS OF 360.00 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 311.55 FEET TO A POINT OF TANGENCY (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING S50°32'09"E, 301.91 FEET); THENCE S25°44'18"E, 360.07 FEET TO A POINT OF CURVATURE; SAID CURVE BEING CONCAVE TO THE WESTERLY, HAVING A CENTRAL ANGLE OF 25°36'49" AND A RADUIS OF 300.00 FEET; THENCE SOUTHERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 134.11 FEET TO A POINT OF TANGENCY (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING S12°36'14"E, 133.00 FEET); THENCE S00°07'50"E, 850.56 FEET; THENCE S88°27'39"E, 552.50 FEET; TO A POINT OF CUSP WITH A CURVE CONCAVE NORTHEASTERLY, SAID CURVE HAVING A CENTRAL ANGLE OF 71°53'33" AND A RADUIS OF 866.28 FEET; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 861.12 FEET TO A POINT OF TANGENCY (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING N36°04'36"W, 805.73 FEET); THENCE N00°07'50"W, 218.88 FEET TO A POINT OF CURVATURE; SAID CURVE BEING CONCAVE TO THE WESTERLY, HAVING A CENTRAL ANGLE OF 25°36'49" AND A RADUIS OF 381.44 FEET; THENCE NORTHERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 170.52 FEET TO A POINT OF TANGENCY (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING N12°56'14"W, 169.10 FEET); THENCE N25°44'38"W, 372.86 FEET; THENCE S80°29'02"E, 2,720.12 FEET; THENCE N00°36'02"W, 284.37 FEET TO THE POINT OF BEGINNING.

LESS AND EXCEPT:

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET; THENCE S00°28'07"E, 543.91 FEET; THENCE S45°08'34"W, 124.08 FEET; THENCE S5°15'42"W, 141.11 FEET TO THE POINT OF BEGINNING; THENCE S45°00'50"W, 493.68 FEET; THENCE S83°54'41"E, 510.33 FEET; THENCE N00°27'40"E, 396.94 FEET; THENCE N87°47'54"W, 181.59 FEET TO THE POINT OF BEGINNING

LEGAL DESCRIPTION: (CERTIFIED AREA 2)

A PARCEL OF LAND LYING IN AND BEING A PORTION OF SECTION 32, OF TOWNSHIP 17 SOUTH, RANGE 16 EAST, CITRUS COUNTY, FLORIDA AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET TO THE POINT OF BEGINNING; THENCE N89°39'34"W, 1,778.62 FEET; THENCE S00°55'37"W, 736.18 FEET; THENCE S88°07'43"E, 45.43 FEET; THENCE S07°10'28"E, 105.01 FEET; THENCE S89°46'30"E, 998.45 FEET; THENCE N17°21'35"E, 246.75 FEET; THENCE N45°00'49"E, 465.39 FEET; THENCE N86°46'18"E, 177.72 FEET; THENCE N00°28'07"W, 491.12 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION: (CERTIFIED AREA 3)

A PARCEL OF LAND LYING IN AND BEING A PORTION OF SECTION 32, OF TOWNSHIP 17 SOUTH, RANGE 16 EAST, CITRUS COUNTY, FLORIDA AND BEING FURTHER DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET; THENCE S00°28'07"E, 543.91 FEET; THENCE S45°08'34"W, 124.08 FEET; THENCE S89°46'18"W, 147.18 FEET; THENCE S45°05'31"W, 644.36 FEET; THENCE S30°49'41"W, 262.27 FEET TO THE POINT OF BEGINNING; THENCE N86°29'47"W, 1,533.70 FEET; THENCE S10°49'17"E, 460.69 FEET; THENCE S77°38'26"W, 635.89 FEET; THENCE S12°21'34"E, 539.05 FEET; THENCE N76°20'08"E, 33.11 FEET; THENCE N12°21'34"W, 246.10 FEET; THENCE N77°38'26"E, 595.05 FEET; THENCE S10°49'17"E, 196.59 FEET; THENCE N76°34'30"E, 571.33 FEET; THENCE N88°37'28"E, 799.91 FEET; THENCE N00°14'16"W, 687.14 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION: (CERTIFIED AREA 4)

A PARCEL OF LAND LYING IN AND BEING A PORTION OF SECTIONS 28, AND 33 OF TOWNSHIP 17 SOUTH, RANGE 16 EAST, CITRUS COUNTY, FLORIDA AND BEING FURTHER DESCRIBED AS FOLLOWS:

COMMENCE AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST; THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET; THENCE S00°28'07"E, 543.91 FEET; THENCE S45°08'34"W, 124.08 FEET; THENCE S89°46'18"W, 147.18 FEET; THENCE S45°05'31"W, 644.36 FEET; THENCE S83°54'41"E, 780.11 FEET; THENCE N00°01'00"E, 504.34 FEET; THENCE N45°00'55"E, 238.13 FEET; THENCE N00°15'39"W, 1,006.65 FEET; THENCE N89°45'32"E, 1,054.60 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE N89°45'32"E, 136.36 FEET; THENCE S80°35'25"E, 915.44 FEET; THENCE S01°51'14"W, 568.25 FEET; THENCE N81°36'41"W, 1,077.26 FEET; THENCE N04°21'17"E, 561.51 FEET TO THE POINT OF BEGINNING.

LEGAL DESCRIPTION: (CERTIFIED AREA 5)

A PARCEL OF LAND LYING IN AND BEING A PORTION OF SECTION 33 OF TOWNSHIP 17 SOUTH, RANGE 16 EAST, CITRUS COUNTY, FLORIDA AND BEING FURTHER DESCRIBED AS FOLLOWS:

BEGIN AT THE SOUTHEAST CORNER OF SECTION 28, TOWNSHIP 17 SOUTH, RANGE 16 EAST THENCE N00°36'02W AND ALONG THE EAST LINE OF SAID SECTION 28, 2,665.86 FEET TO THE NORTHEAST CORNER OF THE SOUTH 1/2 OF SAID SECTION 28; THENCE N89°30'16"W AND ALONG THE NORTH LINE OF THE SOUTH 1/2 OF SAID SECTION 28, 5,305.09 FEET TO THE NORTHWEST CORNER OF SAID SOUTH 1/2 OF SECTION 28; THENCE CONTINUE N89°30'16"W, 492.58 FEET; THENCE S00°08'01"W, 963.08 FEET; THENCE S89°51'59"E, 389.44 FEET; THENCE S00°20'06"W, 1,765.91 FEET; THENCE S00°28'07"E, 543.91 FEET; THENCE S45°08'34"W, 124.08 FEET; THENCE S89°46'18"W, 147.18 FEET; THENCE S45°05'31"W, 644.36 FEET; THENCE S83°54'41"E, 780.11 FEET; THENCE N00°01'00"E, 504.34 FEET; THENCE N45°00'55"E, 238.13 FEET; THENCE N00°15'39"W, 1,006.65 FEET; THENCE N89°45'32"E, 1,054.60 FEET; THENCE S80°35'25"E, 1133.08 FEET; THENCE S00°09'10"E, 1,546.18 FEET TO THE POINT OF BEGINNING; THENCE N89°16'53"W, 446.29 FEET; THENCE S00°43'07"W, 86.90 FEET; THENCE N89°16'53"W, 125.62 FEET; THENCE N00°43'07"E, 86.90 FEET; THENCE N89°16'53"W, 500.40 FEET; THENCE S02°24'41"W, 172.18 FEET; THENCE S29°41'44"W, 43.55 FEET; THENCE S89°56'35"W, 95.88 FEET; THENCE N00°34'45"E, 87.73 FEET; THENCE N89°56'35"W, 156.75 FEET; THENCE S47°37'30"W, 116.61 FEET; THENCE S00°00'00"W, 559.51 FEET TO A POINT OF CURVATURE; SAID CURVE BEING CONCAVE TO THE NORTHEASTERLY, HAVING A CENTRAL ANGLE OF 7°50'00" AND A RADUIS OF 125.00 FEET; THENCE SOUTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 165.44 FEET TO A POINT OF CUSP (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING S37°55'00"E, 153.63 FEET); THENCE S00°00'00"W, 140.41 FEET; THENCE N90°00'00"E, 256.18 FEET; THENCE N22°14'23"E, 95.77 FEET; THENCE N80°26'59"E, 217.66 FEET TO A POINT OF CUSP WITH A CURVE, SAID CURVE BEING CONCAVE TO THE SOUTHEASTERLY, HAVING A CENTRAL ANGLE OF 27°09'08" AND A RADUIS OF 600.00 FEET; THENCE NORTHEASTERLY ALONG THE ARC OF SAID CURVE A DISTANCE OF 284.34 FEET TO A POINT OF TANGENCY (CHORD BEARING AND DISTANCE FOR SAID CURVE BEING N59°48'27"E, 281.68 FEET); THENCE N73°23'01"E, 732.29 FEET TO A POINT HEREINAFTER REFERRED TO AS POINT "A"; THENCE N00°09'10"W, 620.66 FEET TO THE POINT OF BEGINNING.

TOGETHER WITH

COMMENCE AT THE ABOVE DESCRIBED POINT "A", THENCE S00°09'10"E, 25.60 FEET TO THE POINT OF BEGINNING; THENCE CONTINUE S00°09'10"E, 239.54 FEET; THENCE S71°41'59"W, 604.49 FEET; THENCE N11°45'57"W, 251.03 FEET; THENCE N73°23'01"E, 740.85 FEET TO THE POINT OF BEGINNING.

SURVEYORS NOTES:

- 1.The bearings shown hereon are based on assumed datum.
- 2.This is not a boundary survey.
- 3.No instrument of record reflecting easements, rights of way and/or ownership were furnished to the surveyor except as shown hereon. No title opinion is expressed or implied.
- 4.The lands shown hereon may be subject to other recorded or unrecorded easements, right of ways, conveyances, restrictions and reservations other than shown hereon.

NOTE:
SEE SHEET 2 OF 2 FOR MAP OF LEGAL DESCRIPTIONS, NOT VALID UNLESS ACCOMPANIED BY SHEET 2 OF 2.



GulfWest Surveying, Inc.

Professional Surveyors and Mappers

9469 W. Green Bay Lane

Crystal River, Florida 34428

Ph: 352.563.1252 Fax: 352.563.1253

SKETCH AND LEGAL DESCRIPTIONS

FOR PROGRESS ENERGY

CRYSTAL RIVER

FLORIDA

CITRUS COUNTY,

Project No. 10120_A02

Field Book , Page (SEE FILE)

Drawing Date: 01/17/2011

Scale: N/A

Field Date: N/A

Sheet: 1 of 2

Wallace L. Higgins, P.S.M., for GulfWest Surveying, Inc.

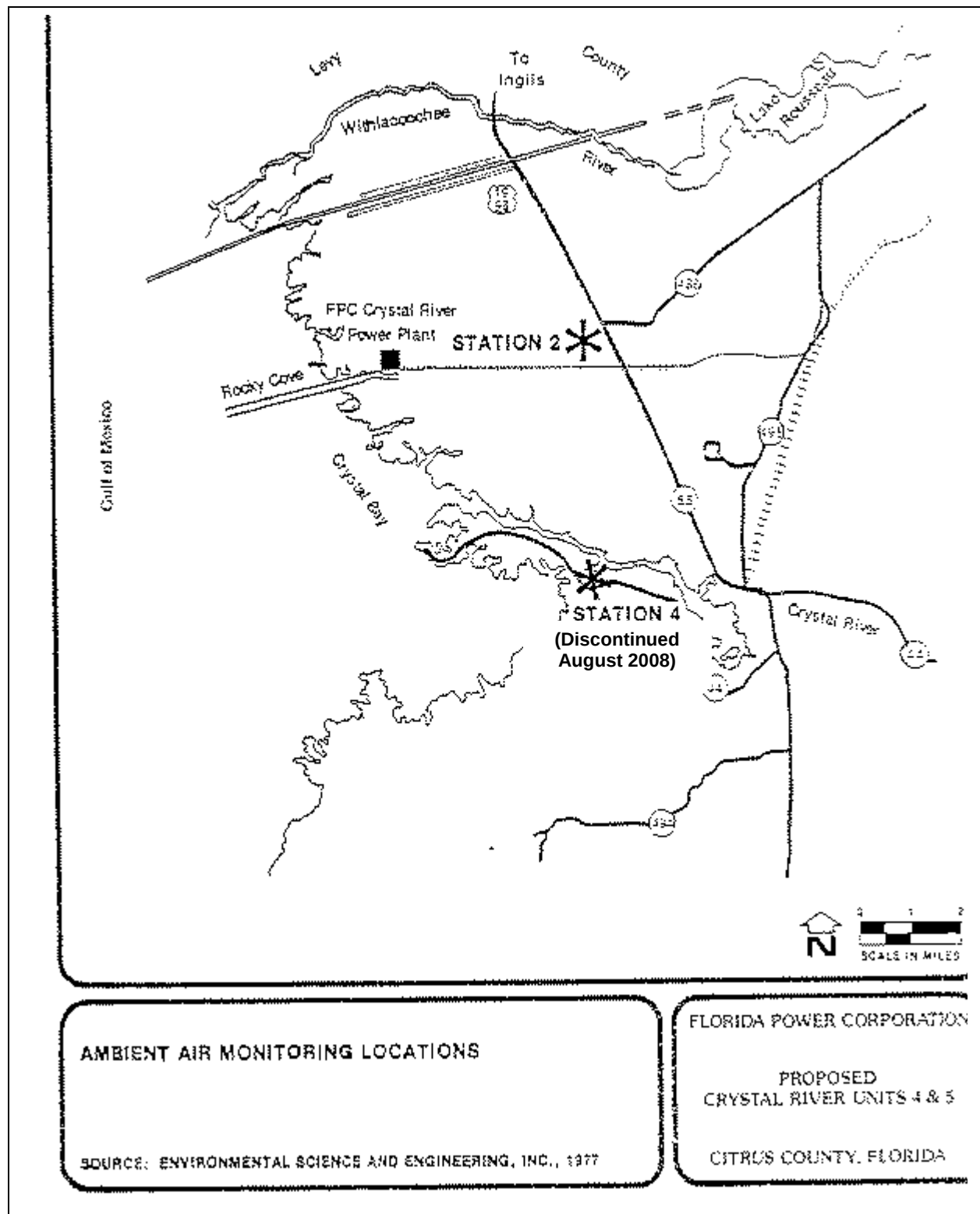
Florida Surveyor and Mapper registration no. 5832

Florida licensed business number 7314

Not valid without the signature and original raised seal of a Florida licensed surveyor and mapper.

Attachment B

Attachment B: Ambient Air Monitoring Locations



Attachment C

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Industrial Wastewater, 13051 Telecom Parkway, Temple Terrace, FL 33637

PERMITTEE NAME:	Progress Energy Florida, Inc	PERMIT NUMBER:	PA 77- 09 (FLA016960)
MAILING ADDRESS:	15760 West Powerline Street Crystal River, Florida 34428-6708	LIMIT:	Final
		CLASS SIZE:	N/A
FACILITY:	Progress Energy Florida - Crystal River	MONITORING GROUP NUMBER:	G-001
LOCATION:	15760 W Power Line St Crystal River, FL 34428-6708	MONITORING GROUP DESCRIPTION:	Percolation Pond System (Units 1, 2 and 3)
		RE-SUBMITTED DMR: ☐	
		NO DISCHARGE FROM SITE: ☐	
COUNTY:	Citrus	MONITORING PERIOD From:	_____ To: _____
OFFICE:	Southwest District		

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-3	Permit Requirement	0.91 (Mo.Avg.)	Report (Day.Max.)	MGD						Daily	Calculated
Flow	Sample Measurement										
PARM Code 50050 Q Mon. Site No. FLW-1	Permit Requirement		Report (Day.Max.)	MGD						Daily	Meter
Flow	Sample Measurement										
PARM Code 50050 R Mon. Site No. FLW-2	Permit Requirement		Report (Day.Max.)	MGD						Daily	Meter
Water Level Relative to NGVD	Sample Measurement										
PARM Code 82545 P Mon. Site No. OTH-1	Permit Requirement		Report (Day.Max.)	ft						Weekly	In-situ
Water Level Relative to NGVD	Sample Measurement										
PARM Code 82545 Q Mon. Site No. OTH-2	Permit Requirement		Report (Day.Max.)	ft						Weekly	In-situ
Water Level Relative to NGVD	Sample Measurement										
PARM Code 82545 R Mon. Site No. OTH-3	Permit Requirement		Report (Day.Max.)	ft						Weekly	In-situ
Water Level Relative to NGVD	Sample Measurement										
PARM Code 82545 S Mon. Site No. OTH-4	Permit Requirement		Report (Day.Max.)	ft						Weekly	In-situ

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Industrial Wastewater, 13051 Telecom Parkway, Temple Terrace, FL 33637

PERMITTEE NAME: Progress Energy Florida, Inc
MAILING ADDRESS: 15760 West Powerline Street
Crystal River, Florida 34428-6708

PERMIT NUMBER: PA 77- 09 (FLA016960)

LIMIT: Final
REPORT FREQUENCY: Quarterly
CLASS SIZE: N/A
MONITORING GROUP NUMBER: G-001
PROGRAM: Industrial

FACILITY: Progress Energy Florida - Crystal River
LOCATION: 15760 W Power Line St

DESCRIPTION: Percolation Pond System (Units 1, 2 and 3)

Crystal River, FL 34428-6708

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE: ☐
MONITORING PERIOD

From: _____ To: _____

COUNTY: Citrus
OFFICE: Southwest District

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. EFF-1	Permit Requirement				Report (Day.Min.)		Report (Day.Max.)	s.u.		Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	umhos/cm		Quarterly	In-situ
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 1 Mon. Site No. EFF-1	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-001

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Cyanide, Total (as CN)	Sample Measurement										
PARM Code 00720 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Boron, Total Recoverable	Sample Measurement										
PARM Code 00999 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-001

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Molybdenum, Total Recoverable	Sample Measurement										
PARM Code 01129 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-001

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Strontium, Total Recoverable	Sample Measurement										
PARM Code 01084 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Vanadium, Total Recoverable	Sample Measurement										
PARM Code 01128 1 Mon. Site No. EFF-1	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
pH	Sample Measurement										
PARM Code 00400 Q Mon. Site No. EFF-2	Permit Requirement				Report (Day.Min.)	Report (Day.Max.)	s.u.			Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	umhos/cm			Quarterly	In-situ
Oil and Grease	Sample Measurement										
PARM Code 00556 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Nitrogen, Nitrate, Total (as N)	Sample Measurement										
PARM Code 00620 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Cyanide, Total (as CN)	Sample Measurement										
PARM Code 00720 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-001

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Boron, Total Recoverable	Sample Measurement										
PARM Code 00999 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-001

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Silver, Total Recoverable	Sample Measurement										
PARM Code 01079 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Molybdenum, Total Recoverable	Sample Measurement										
PARM Code 01129 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Strontium, Total Recoverable	Sample Measurement										
PARM Code 01084 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Vanadium, Total Recoverable	Sample Measurement										
PARM Code 01128 Q Mon. Site No. EFF-2	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Industrial Wastewater, 13051 Telecom Parkway, Temple Terrace, FL 33637

PERMITTEE NAME: Progress Energy Florida, Inc
MAILING ADDRESS: 15760 West Powerline Street
Crystal River, Florida 34428-6708

PERMIT NUMBER: PA 77- 09 (FLA016960)

LIMIT: Final

REPORT FREQUENCY: Monthly

FACILITY: Progress Energy Florida - Crystal River
LOCATION: 15760 W Power Line St

Crystal River, FL 34428-6708

CLASS SIZE: N/A
MONITORING GROUP NUMBER: G-002
MONITORING GROUP DESCRIPTION: Percolation Pond (Units 4 and 5)

RE-SUBMITTED DMR: ☐
NO DISCHARGE FROM SITE ☐

COUNTY: Citrus
OFFICE: Southwest District

MONITORING PERIOD From: _____ To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Flow	Sample Measurement										
PARM Code 50050 1 Mon. Site No. FLW-4	Permit Requirement		Report (Day.Max.)	MGD						Daily	Calculated
Water Level Relative to NGVD	Sample Measurement										
PARM Code 82545 P Mon. Site No. OTH-5	Permit Requirement		Report (Day.Max.)	ft						Weekly	In-situ

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DEPARTMENT OF ENVIRONMENTAL PROTECTION DISCHARGE MONITORING REPORT - PART A

When Completed mail this report to: Department of Environmental Protection, Southwest District Office, Compliance Assurance Program, Attn: Industrial Wastewater, 13051 Telecom Parkway, Temple Terrace, FL 33637

PERMITTEE NAME:	Progress Energy Florida, Inc	PERMIT NUMBER:	PA 77- 09 (FLA016960)		
MAILING ADDRESS:	15760 West Powerline Street Crystal River, Florida 34428-6708	LIMIT:	Final	REPORT FREQUENCY:	Quarterly
FACILITY:	Progress Energy Florida - Crystal River	CLASS SIZE:	N/A	PROGRAM:	Industrial
LOCATION:	15760 W Power Line St	MONITORING GROUP NUMBER:	G-002		
	Crystal River, FL 34428-6708	MONITORING GROUP DESCRIPTION:	Percolation Pond (Units 4 and 5)		
		RE-SUBMITTED DMR ☐			
		NO DISCHARGE FROM SITE: ☐			
COUNTY:	Citrus	MONITORING PERIOD			
		From:			
OFFICE:	Southwest District				

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
pH	Sample Measurement										
PARM Code 00400 1 Mon. Site No. FLW-4	Permit Requirement				Report (Day.Min.)		Report (Day.Max.)	s.u.		Quarterly	In-situ
Solids, Total Dissolved (TDS)	Sample Measurement										
PARM Code 70295 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Specific Conductance	Sample Measurement										
PARM Code 00095 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	umhos/cm		Quarterly	In-situ
Oil and Grease	Sample Measurement										
PARM Code 00556 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Chloride (as Cl)	Sample Measurement										
PARM Code 00940 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Antimony, Total Recoverable	Sample Measurement										
PARM Code 01268 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	ug/L		Quarterly	Grab

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here):

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-002

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Arsenic, Total Recoverable	Sample Measurement										
PARM Code 00978 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Beryllium, Total Recoverable	Sample Measurement										
PARM Code 00998 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Boron, Total Recoverable	Sample Measurement										
PARM Code 00999 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Cadmium, Total Recoverable	Sample Measurement										
PARM Code 01113 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Copper, Total Recoverable	Sample Measurement										
PARM Code 01119 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Chromium, Total Recoverable	Sample Measurement										
PARM Code 01118 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Iron, Total Recoverable	Sample Measurement										
PARM Code 00980 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	mg/L			Quarterly	Grab
Lead, Total Recoverable	Sample Measurement										
PARM Code 01114 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Mercury, Total Recoverable	Sample Measurement										
PARM Code 71901 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab
Nickel, Total Recoverable	Sample Measurement										
PARM Code 01074 1 Mon. Site No. EFF-4	Permit Requirement					Report (Day.Max.)	ug/L			Quarterly	Grab

DISCHARGE MONITORING REPORT - PART A (Continued)

FACILITY: Progress Energy Florida - Crystal River

MONITORING GROUP G-002

PERMIT NUMBER: PA 77- 09 (FLA016960)

NUMBER:

MONITORING PERIOD

From: _____

To: _____

Parameter		Quantity or Loading		Units	Quality or Concentration			Units	No. Ex.	Frequency of Analysis	Sample Type
Selenium, Total Recoverable	Sample Measurement										
PARM Code 00981 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	ug/L		Quarterly	Grab
Sodium, Total Recoverable	Sample Measurement										
PARM Code 00923 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
Thallium, Total Recoverable	Sample Measurement										
PARM Code 00982 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	ug/L		Quarterly	Grab
Zinc, Total Recoverable	Sample Measurement										
PARM Code 01094 1 Mon. Site No. EFF-4	Permit Requirement						Report (Day.Max.)	mg/L		Quarterly	Grab
	Sample Measurement										
	Permit Requirement										

DAILY SAMPLE RESULTS - PART B

Permit Number: PA 77- 09 (FLA016960)

Facility: Crystal River Energy Complex

Monitoring Period From: _____ To: _____

	Flow (MGD)	Flow (MGD)	Flow (MGD)	Water Level Relative to NGVD	Water Level Relative to NGVD	Water Level Relative to NGVD	NOTES
Code	50050	50050	50050	82545	82545	82545	
Mon. Site	FLW-1	FLW-2	FLW-3	OTH-1	OTH-2	OTH-3	
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							
Total							
Mo. Avg.							

Note: The permittee shall submit Part B, Daily Maximum Flow Discharge Monitoring Report (DMR) quarterly. This DMR shall be kept on the facility's site and made available for review during all Department inspections.

DAILY SAMPLE RESULTS - PART B

Permit Number:
Monitoring Period

PA 77- 09 (FLA016960)

From: _____ To: _____

Facility: Crystal River Energy Complex

	Water Level Relative to NGVD	Flow (MGD)	Water Level Relative to NGVD			
Code	82545	50050	82545			NOTES
Mon. Site	OTH-4	FLW-4	OTH-5			
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						
21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Total						
Mo. Avg.						

Note: The permittee shall submit Part B, Daily Maximum Flow Discharge Monitoring Report (DMR) quarterly. This DMR shall be kept on the facility's site and made available for review during all Department inspections.

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWB-30R
 Well Type: Background
 Description: Background Well
 (Replaced MWB-30)

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River GW
 Permit Number: FLA016960-007-IW1N
 County: Citrus

Monitoring Well ID: MWB-30R
 Well Type: Background
 Description: Background Well
 (Replaced MWB-30)

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		Report	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		Report	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		Report	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-16
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River GW
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-16
 Well Type: Compliance
 Description: Compliance monitoring well.
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-27
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-27
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-29
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-29
 Well Type: Compliance
 Description: Compliance monitoring well.
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-31
 Well Type: Compliance
 Description: Compliance
 Monitoring Well

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-31
 Well Type: Compliance
 Description: Compliance
 Monitoring Well
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-IF2
 Well Type: Compliance
 Description: Compliance monitoring well.

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-IF2
 Well Type: Compliance
 Description: Compliance monitoring well.
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-1
 Well Type: Compliance
 Description: Compliance
 Monitoring Well

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-1
 Well Type: Compliance
 Description: Compliance
 Monitoring Well
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-21R
 Well Type: Compliance
 Description: Compliance monitoring well.

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-21R
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-28
 Well Type: Compliance
 Description: Compliance monitoring well.
 Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Re-submitted DMR: ☐

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-28
 Well Type: Compliance
 Description: Compliance monitoring
 Report Frequency: Quarterly
 Program: Industrial
 Re-submitted DMR: ☐

Office: Southwest District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ____ Yes ____ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-32
 Well Type: Compliance
 Description: Compliance Monitoring Well
 Northern boundary of the property
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable*	00978		Report	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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COMMENTS AND EXPLANATION (Reference all attachments here):

*Interim Limit Approved by Consent Order 09-3463B.

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-32
 Well Type: Compliance
 Description: Compliance
 Monitoring Well
 Northern boundary of
 the property
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-33
 Well Type: Compliance
 Description: Compliance Monitor
 Well Northern boundary of the property
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____
 Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		10	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	mg/L	Grab	Quarterly				
Turbidity	00070		Report	NTU	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	ft	In Situ	Quarterly				
Antimony, Total Recoverable	01268		6.0	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		10.0	ug/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus

Monitoring Well ID: MWC-33
 Well Type: Compliance
 Description: Compliance Monitor
 Well Northern boundary of the property
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Office: Southwest District

Monitoring Period From: _____ To: _____

Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		2.0	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		4.0	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		5.0	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		2.0	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		50.0	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		100.0	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		15.0	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		100.0	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		2.0	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		4.0	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		0.2	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus
 Office: Southwest District

Monitoring Well ID: MWI-7R
 Well Type: Intermediate
 Description: Intermediate well
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Copper, Total Recoverable	01119		Report	mg/L	Grab	Quarterly				
Chloride (as Cl)	00940		Report	mg/L	Grab	Quarterly				
Iron, Total Recoverable	00980		Report	mg/L	Grab	Quarterly				
Nitrogen, Nitrate, Total (as N)	00620		Report	mg/L	Grab	Quarterly				
pH	00400		Report	s.u.	In Situ	Quarterly				
Sodium, Total Recoverable	00923		Report	mg/L	Grab	Quarterly				
Specific Conductance	00095		Report	umhos/cm	In Situ	Quarterly				
Solids, Total Dissolved (TDS)	70295		Report	NTU	In Situ	Quarterly				
Turbidity	00070		Report	ft	In Situ	Quarterly				
Water Level Relative to NGVD	82545		Report	pCi/L	Grab	Quarterly				
Antimony, Total Recoverable	01268		Report	ug/L	Grab	Quarterly				
Arsenic, Total Recoverable	00978		Report	mg/L	Grab	Quarterly				
Boron, Total Recoverable	00999		Report	mg/L	Grab	Quarterly				

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.

NAME/TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE NO	DATE (mm/dd/yyyy)

COMMENTS AND EXPLANATION (Reference all attachments here):

GROUNDWATER MONITORING REPORT - PART D (Continued)

Facility Name: Progress Energy Florida - Crystal River
 Permit Number: PA 77- 09 (FLA016960)
 County: Citrus
 Office: Southwest District

Monitoring Well ID: MWI-7R
 Well Type: Intermediate
 Description: Intermediate well
 Re-submitted DMR: ☐

Report Frequency: Quarterly
 Program: Industrial

Monitoring Period From: _____ To: _____ Date Sample Obtained: _____

Time Sample Obtained: _____

Was the well purged before sampling? ___ Yes ___ No

Parameter	PARM Code	Sample Measurement	Permit Requirement	Units	Sample Type	Frequency of Analysis	Detection Limits	Analysis Method	Sampling Equipment Used	Samples Filtered (L/F/N)
Barium, Total Recoverable	01009		Report	mg/L	Grab	Quarterly				
Beryllium, Total Recoverable	00998		Report	ug/L	Grab	Quarterly				
Cadmium, Total Recoverable	01113		Report	ug/L	Grab	Quarterly				
Mercury, Total Recoverable	71901		Report	ug/L	Grab	Quarterly				
Selenium, Total Recoverable	00981		Report	ug/L	Grab	Quarterly				
Chromium, Total Recoverable	01118		Report	ug/L	Grab	Quarterly				
Lead, Total Recoverable	01114		Report	ug/L	Grab	Quarterly				
Nickel, Total Recoverable	01074		Report	ug/L	Grab	Quarterly				
Thallium, Total Recoverable	00982		Report	ug/L	Grab	Quarterly				
Oxygen, Dissolved (DO)	00300		Report	mg/L	In Situ	Quarterly				
Zinc, Total Recoverable	01094		Report	mg/L	Grab	Quarterly				
Fluoride, Total (as F)	00951		Report	mg/L	Grab	Quarterly				
Cyanide, Free (amen. to chlorination)	00722		Report	mg/L	Grab	Quarterly				
Temperature (F), Water	00011		Report	Deg F	In Situ	Quarterly				
Molybdenum, Total Recoverable	01129		Report	ug/L	Grab	Quarterly				
Silver, Total Recoverable	01079		Report	ug/L	Grab	Quarterly				
Strontium, Total Recoverable	01084		Report	ug/L	Grab	Quarterly				
Vanadium, Total Recoverable	01128		Report	ug/L	Grab	Quarterly				

COMMENTS AND EXPLANATION (Reference all attachments here):

INSTRUCTIONS FOR COMPLETING THE WASTEWATER DISCHARGE MONITORING REPORT

Read these instructions before completing the DMR. Hard copies and/or electronic copies of the required parts of the DMR were provided with the permit. All required information shall be completed in full and typed or printed in ink. A signed, original DMR shall be mailed to the address printed on the DMR by the 28th of the month following the monitoring period. The DMR shall not be submitted before the end of the monitoring period.

The DMR consists of three parts--A, B, and D--all of which may or may not be applicable to every facility. Facilities may have one or more Part A's for reporting effluent or reclaimed water data. All domestic wastewater facilities will have a Part B for reporting daily sample results. Part D is used for reporting ground water monitoring well data.

When results are not available, the following codes should be used on parts A and D of the DMR and an explanation provided where appropriate. Note: Codes used on Part B for raw data are different.

CODE	DESCRIPTION/INSTRUCTIONS
ANC	Analysis not conducted.
DRY	Dry Well
FLD	Flood disaster.
IFS	Insufficient flow for sampling.
LS	Lost sample.
MNR	Monitoring not required this period.

CODE	DESCRIPTION/INSTRUCTIONS
NOD	No discharge from/to site.
OPS	Operations were shutdown so no sample could be taken.
OTH	Other. Please enter an explanation of why monitoring data were not available.
SEF	Sampling equipment failure.

When reporting analytical results that fall below a laboratory's reported method detection limits or practical quantification limits, the following instructions should be used:

1. Results greater than or equal to the PQL shall be reported as the measured quantity.
2. Results less than the PQL and greater than or equal to the MDL shall be reported as the laboratory's MDL value. These values shall be deemed equal to the MDL when necessary to calculate an average for that parameter and when determining compliance with permit limits.
3. Results less than the MDL shall be reported by entering a less than sign ("<") followed by the laboratory's MDL value, e.g. < 0.001. A value of one-half the MDL or one-half the effluent limit, whichever is lower, shall be used for that sample when necessary to calculate an average for that parameter. Values less than the MDL are considered to demonstrate compliance with an effluent limitation.

PART A -DISCHARGE MONITORING REPORT (DMR)

Part A of the DMR is comprised of one or more sections, each having its own header information. Facility information is preprinted in the header as well as the monitoring group number, whether the limits and monitoring requirements are interim or final, and the required submittal frequency (e.g. monthly, annually, quarterly, etc.). Submit Part A based on the required reporting frequency in the header and the instructions shown in the permit. The following should be completed by the permittee or authorized representative:

Resubmitted DMR: Check this box if this DMR is being re-submitted because there was information missing from or information that needed correction on a previously submitted DMR. The information that is being revised should be clearly noted on the re-submitted DMR (e.g. highlight, circle, etc.)

No Discharge From Site: Check this box if no discharge occurs and, as a result, there are no data or codes to be entered for all of the parameters on the DMR for the entire monitoring group number; however, if the monitoring group includes other monitoring locations (e.g., influent sampling), the "NOD" code should be used to individually denote those parameters for which there was no discharge.

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Sample Measurement: Before filling in sample measurements in the table, check to see that the data collected correspond to the limit indicated on the DMR (i.e. interim or final) and that the data correspond to the monitoring group number in the header. Enter the data or calculated results for each parameter on this row in the non-shaded area above the limit. Be sure the result being entered corresponds to the appropriate statistical base code (e.g. annual average, monthly average, single sample maximum, etc.) and units.

No. Ex.: Enter the number of sample measurements during the monitoring period that exceeded the permit limit for each parameter in the non-shaded area. If none, enter zero.

Frequency of Analysis: The shaded areas in this column contain the minimum number of times the measurement is required to be made according to the permit. Enter the actual number of times the measurement was made in the space above the shaded area.

Sample Type: The shaded areas in this column contain the type of sample (e.g. grab, composite, continuous) required by the permit. Enter the actual sample type that was taken in the space above the shaded area.

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comment and Explanation of Any Violations: Use this area to explain any exceedances, any upset or by-pass events, or other items which require explanation. If more space is needed, reference all attachments in this area.

PART B - DAILY SAMPLE RESULTS

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Daily Monitoring Results: Transfer all analytical data from your facility's laboratory or a contract laboratory's data sheets for all day(s) that samples were collected. Record the data in the units indicated. Table 1 in Chapter 62-160, F.A.C., contains a complete list of all the data qualifier codes that your laboratory may use when reporting analytical results. However, when transferring numerical results onto Part B of the DMR, only the following data qualifier codes should be used and an explanation provided where appropriate.

CODE	DESCRIPTION/INSTRUCTIONS
<	The compound was analyzed for but not detected.
A	Value reported is the mean (average) of two or more determinations.
J	Estimated value, value not accurate.
Q	Sample held beyond the actual holding time.
Y	Laboratory analysis was from an unpreserved or improperly preserved sample.

To calculate the monthly average, add each reported value to get a total. For flow, divide this total by the number of days in the month. For all other parameters, divide the total by the number of observations.

Plant Staffing: List the name, certificate number, and class of all state certified operators operating the facility during the monitoring period. Use additional sheets as necessary.

PART D - GROUND WATER MONITORING REPORT

Monitoring Period: Enter the month, day, and year for the first and last day of the monitoring period (i.e. the month, the quarter, the year, etc.) during which the data on this report were collected and analyzed.

Date Sample Obtained: Enter the date the sample was taken. Also, check whether or not the well was purged before sampling.

Time Sample Obtained: Enter the time the sample was taken.

Sample Measurement: Record the results of the analysis. If the result was below the minimum detection limit, indicate that.

Detection Limits: Record the detection limits of the analytical methods used.

Analysis Method: Indicate the analytical method used. Record the method number from Chapter 62-160 or Chapter 62-601, F.A.C., or from other sources.

Sampling Equipment Used: Indicate the procedure used to collect the sample (e.g. airlift, bucket/bailer, centrifugal pump, etc.)

Samples Filtered: Indicate whether the sample obtained was filtered by laboratory (L), filtered in field (F), or unfiltered (N).

Signature: This report must be signed in accordance with Rule 62-620.305, F.A.C. Type or print the name and title of the signing official. Include the telephone number where the official may be reached in the event there are questions concerning this report. Enter the date when the report is signed.

Comments and Explanation: Use this space to make any comments on or explanations of results that are unexpected. If more space is needed, reference all attachments in this area.

SPECIAL INSTRUCTIONS FOR LIMITED WET WEATHER DISCHARGES

Flow (Limited Wet Weather Discharge): Enter the measured average flow rate during the period of discharge or divide gallons discharged by duration of discharge (converted into days). Record in million gallons per day (MGD).

Flow (Upstream): Enter the average flow rate in the receiving stream upstream from the point of discharge for the period of discharge. The average flow rate can be calculated based on two measurements; one made at the start and one made at the end of the discharge period. Measurements are to be made at the upstream gauging station described in the permit.

Actual Stream Dilution Ratio: To calculate the Actual Stream Dilution Ratio, divide the average upstream flow rate by the average discharge flow rate. Enter the Actual Stream Dilution Ratio accurate to the nearest 0.1.

No. of Days the SDF > Stream Dilution Ratio: For each day of discharge, compare the minimum Stream Dilution Factor (SDF) from the permit to the calculated Stream Dilution Ratio. On Part B of the DMR, enter an asterisk (*) if the SDF is greater than the Stream Dilution Ratio on any day of discharge. On Part A of the DMR, add up the days with an "*" and record the total number of days the Stream Dilution Factor was greater than the Stream Dilution Ratio.

CBOD₅: Enter the average CBOD₅ of the reclaimed water discharged during the period shown in duration of discharge.

TKN: Enter the average TKN of the reclaimed water discharged during the period shown in duration of discharge.

Actual Rainfall: Enter the actual rainfall for each day on Part B. Enter the actual cumulative rainfall to date for this calendar year and the actual total monthly rainfall on Part A. The cumulative rainfall to date for this calendar year is the total amount of rain, in inches, that has been recorded since January 1 of the current year through the month for which this DMR contains data.

Rainfall During Average Rainfall Year: On Part A, enter the total monthly rainfall during the average rainfall year and the cumulative rainfall for the average rainfall year. The cumulative rainfall for the average rainfall year is the amount of rain, in inches, which fell during the average rainfall year from January through the month for which this DMR contains data.

No. of Days LWWD Activated During Calendar Year: Enter the cumulative number of days that the limited wet weather discharge was activated since January 1 of the current year.

Reason for Discharge: Attach to the DMR a brief explanation of the factors contributing to the need to activate the limited wet weather discharge.

Attachment D

Attachment D: Leachate Monitoring and Testing Program

PROGRESS ENERGY FLORIDA CRYSTAL RIVER UNITS 4 AND 5 PROPOSED LEACHATE MONITORING AND TESTING

- I. Computerized and manual literature search with the objective of obtaining an adequate data base from literature.
- II. Pre-operational Water Table Monitoring Program with the objective to acquire 12-month baseline.

Install 12 shallow peizometer well points

Install 2 deep peizometer well points

Monitor water table level

- 1 well-recorder to establish degree of tidal influences - one month

- 13 wells - weekly

Monitor in situ (pH, conductance, redox, dissolved oxygen) - weekly (all wells)

Monitor key water quality indicators (Discontinued August 2008) (4 wells)

Monitor extended water quality indicators quarterly (4 wells)

Monitor rainfall and evaporation - weekly

Develop flow net and water budget

- III. Laboratory screening of ash from low pyritic sulfur coal with the objective of evaluation of leachate formation and attenuation reactions. The program will establish the following:

- Percolation rates of compacted ash (fly and bottom ash)

- Solute release rates

- Limestone neutralization effectiveness

- Clay liner effectiveness

- Correlate extended and key water quality indicators

- Total ash leachate capacity

- Active area vs. Inactive area leachate rates

- Available fractions of solutes

Techniques for screening:

- Shake test (fly, bottom ash)

- Column leaching (6-10 months)

(1) Compacted fly ash (lifts and liners)

- (2) Alternative lifts of ash and limestone
- (3) Ash with clay liner
- (4) Ash with compacted limerock and fly ash liner

IV. Evaluate leachate attenuation in subsoil and water table aquifer.

- Oxidation - reduction
- Chemical precipitation/solubility/pH/Eh
- Adsorption isotherms
- Ion exchange capacity
- Metals content of limerock

V. Cost-effectiveness evaluation of alternative liners

- Water quality criteria
- Biological effects
- Cost of leachate control and treatment
- Cost of runoff control and treatment

VI. Develop final design for field test cell program defined in paragraph VII below.

VII. Field test cells program with the objective of verifying.

Monitor water budget

- Direct infiltration rates
- Direct runoff
- Direct rainfall
- Water table

Potential test cell configuration

- Ash with compacted fly ash liner only
- Ash with compacted limestone and fly ash liner
- Alternative lifts of ash and limestone with compacted fly ash liner
- Ash with selected clay liner
- Alternative caps and vegetation

Monitor leachate formation and attenuation

- 4 well clusters per cell at three depths
- Weekly water table elevations in situ water quality from all wells (pH, conductance, redox, dissolved oxygen)
- Monthly key indicators from 2 clusters per cell
- Quarterly extended indicators from 2 per cell
- 2 base well points shall be maintained up slope of the active area

VIII. Evaluate leachate management program results and develop final design of ash storage area.

IX. Periodic reports on the progress of this program will be submitted to the Department for its information and review.

X. In situ water quality indicators

pH	Redox
Conductance	Dissolved Oxygen

XI. Key water quality indicators - monthly

Conductance	Cadmium
pH	Zinc
Redox	Copper
Dissolved Oxygen	Nickel
Temperature	Selenium
Color	Chromium
Turbidity	Arsenic
Chloride	Beryllium
Iron	Mercury
Lead	

XII. Extended water quality indicators - quarterly

Key indicators plus:

Total Dissolved Solids	Gross Alpha
Suspended Solids	Aluminum
Barium	Calcium
Magnesium	Sodium
Molybdenum	Vanadium
Cobalt	

Attachment E

Golder Associates Inc.
5100 West Lemon Street
Suite 114
Tampa, FL USA 33609
Telephone: (813) 287-1717
Fax: (813) 287-1716



TECHNICAL MEMORANDUM

To: Michael Shrader and Ron Johnson
Progress Energy Florida, Inc.

From: Kerem H. Esin, P.E.

Date: October 26, 2009

Subject: Stormwater Management System Operation and Maintenance Plan (Rev0)
Crystal River Energy Complex Unit 3
Dry Fuel Storage Facility
Crystal River, Florida

Our Ref.: 093-89554

This Operation and Maintenance (O&M) Plan describes the guidelines and procedures for the proper operation, inspection, and maintenance of the stormwater management system (SWMS) for the referenced project. The continuous and proper operation of the system is vital in preserving the water quality discharged to the environment and preventing flooding at the site during storm events. The O&M obligation is mandatory in order to comply with conditions of the permit issued for this SWMS. As long as the SWMS components were constructed properly and are maintained to function properly, state water quality standards are presumed to be met. The O&M recommendations, restrictions, inspection, and maintenance items are described below.

GENERAL MAINTENANCE

1. Have all stormwater pipes, inlets, catch basins, manholes, flumes, pond inflow and outflow structures (including oil skimmers), and discharge pipes inspected regularly (monthly or quarterly) and after major rainfalls. They should be maintained by removing built-up debris and vegetation and repairing deteriorating structures.
2. Do not throw grass clippings or other yard debris into the stormwater treatment pond. This will deteriorate the water quality and may restrict flow or clog the water-conveyance system.
3. Do not dispose of chemicals, oil, greases, or similar wastes directly into the stormwater facility or through storm sewers. Instead, dispose of these potentially dangerous materials at approved disposal or recycling facilities.

TECHNICAL MEMORANDUM

Stormwater Management System O&M Plan (Rev0)
Progress Energy Florida, Inc.

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4. Periodically remove sediments that accumulate in the SWMS and dispose of them in a permitted solid waste landfill in accordance with applicable regulations.
5. During any repair or maintenance activity, use care to avoid causing erosion or siltation to adjacent or off-site areas.
6. Alterations (filling, enlarging, etc.) of any part of the SWMS are not permitted without prior approval from all applicable governing agencies.
7. Keep copies of the approved permit and as-built drawings at the plant where they will be readily available for reviewing additional restrictions, instructions, and conditions.

DRY RETENTION AREA & HYDRAULIC CONVEYANCES

1. Mow frequently enough to prevent thatch buildup. Pick up grass clippings after cutting. Limit fertilizer use around the pond, and do not fertilize grass in the pond area.
2. Spraying of herbicide is not allowed. This may harm or kill the grass that protects the bank and slopes from erosion and sediment built-up.
3. Overgrown nuisance vegetation may be occasionally cut down but must be removed and not allowed to decay in the pond.
4. Re-sod any areas (side or bottom) where grass or sod has been removed or eroded.
5. Keep the outfall structure clear of debris and vegetation. Periodically remove sediment accumulated in the discharge control structures and culverts.
6. If pollutant-retardant baffles deteriorate so much with time that they become nonfunctional, replace them.
7. Repair any sinkholes according to the attached plan (Figure 1).
8. Inspect the skimmer on the outfall structure regularly (monthly or quarterly) and after major rainfalls. Maintain it by removing built-up debris and vegetation and repairing deteriorating structures.

INSPECTIONS

The SWMS should be inspected routinely to ensure proper functioning. Inspections should be scheduled monthly or quarterly and following any major rain event. More frequent inspections may be necessary during the rainy season. Each stormwater system and related equipment will be inspected for cracks or structural failures, deterioration of the unit, stains, stressed or overgrown vegetation, and the need for cleaning the unit. Regular inspections of the SWMS should record observations on the following items:

TECHNICAL MEMORANDUM

Stormwater Management System O&M Plan (Rev0)
Progress Energy Florida, Inc.

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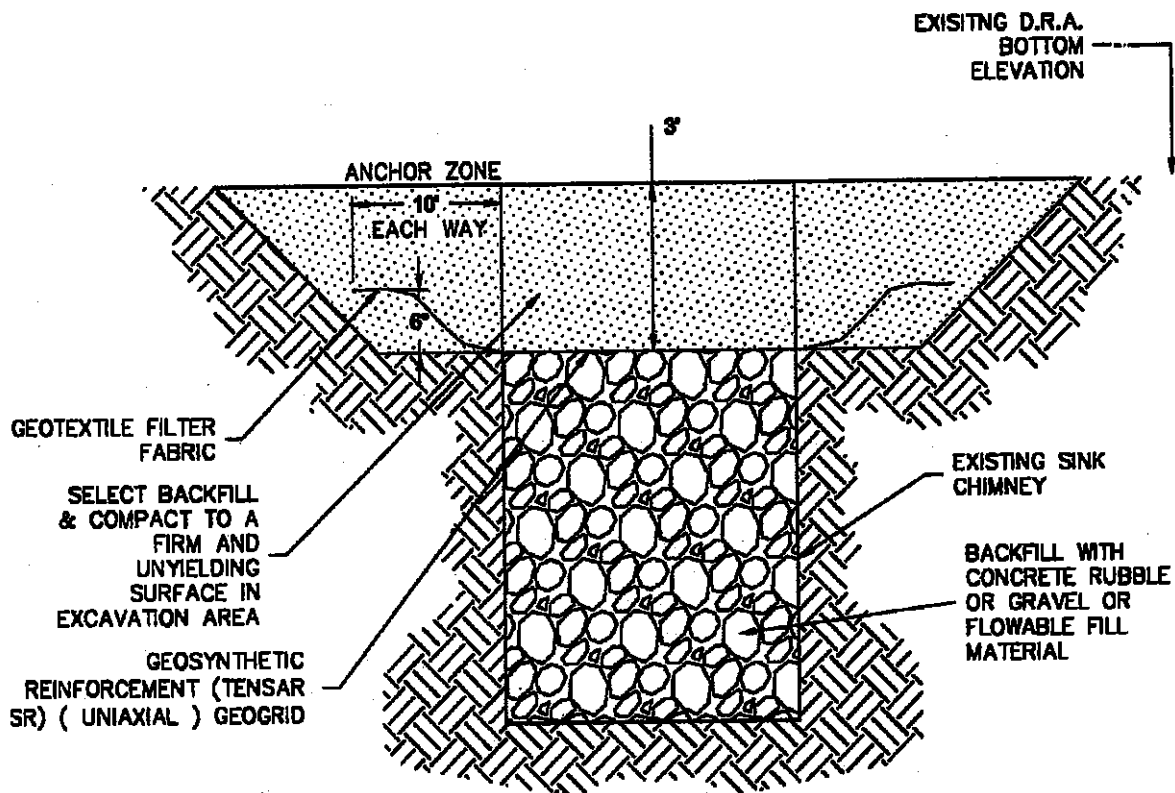
1. Bank stability for any indication of erosion;
2. Evidence of sinkholes;
3. Sod condition and any distress or coloration in vegetation;
4. Presence of wastes, debris, or pollutants; and
5. Cracks or structure failure for discharge control structure, culvert, and/or pollutant-retardant baffles.

Maintenance items identified during routine inspections should be reported and corrective actions should be initiated in a timely manner, but in no case later than seven calendar days following the identification of the problem. Vegetation that is no longer providing erosion control shall be replaced as deemed necessary. Copies of inspection records, including documentation of any required corrective actions, should be kept together with the permit and as-built drawings.

HOUSEKEEPING

Good housekeeping practices shall be implemented for the project area operations to reduce the risk of exposure of materials to stormwater and/or coastal flooding associated with a 100 year flood event. These practices should include the following items:

1. Neat and orderly storage of chemicals, pesticides, fertilizers, fuels, etc. that are being stored at the site.
2. Regular disposal of garbage and construction debris.
3. Elevated storage for certain materials as practical or necessary.
4. Prompt cleanup of any spills.
5. Cleanup of sediments that have been tracked by vehicles or have been transported by wind or stormwater.
6. Curbs or dikes to contain spills within liquid material storage areas.



SINKHOLE REPAIR PLAN

RECOMMENDATION FOR REPAIRING SINKHOLES IN RETENTION PONDS:
BY DEVO SEERERAM PH.D., P.E.

STEP #1:
IF THE SINKHOLE CONSISTS ONLY OF A SURFACE DEPRESSION (I.E. NO OPEN FISSURE OR EXPOSED CAVERN), PROCEED TO STEP #3.

STEP #2:
IF THE SINKHOLE HAS AN OPEN FISSURE OR EXPOSED CAVERN, FILL THE SINKHOLE TO WITHIN 3 FEET OF PLAN GRADE WITH EITHER: A) CONCRETE RUBBLE OR GRAVEL, OR B) FLOWABLE FILL. IF CONCRETE RUBBLE OR GRAVEL IS USED IT SHOULD CONSIST OF HARD, DURABLE STONE, BROKEN CONCRETE AND/OR BROKEN CONCRETE BLOCK. MATERIAL ACCEPTANCE MAY BE BASED ON VISUAL INSPECTION. THE MOST IMPORTANT MATERIAL CHARACTERISTICS ARE THAT THE CONCRETE/STONE PIECES BE DURABLE (I.E. NOT SOFT AND DISSOLVABLE), SOMEWHAT ANGULAR, AND PREDOMINANTLY COARSER THAN A 1-1/2 INCH SIEVE.

STEP #3:
PLACE TWO LAYERS OF GEOSYNTHETIC REINFORCEMENT, AND ONE LAYER OF GEOTEXTILE FABRIC, IF REQUIRED, AS FOLLOWS:

MATERIAL: THE REINFORCEMENT TO BE USED SHOULD HAVE A MINIMUM TENSILE STRENGTH OF 1,350 LB/FT (ASTM D-4395) AT A STRAIN OF 10% OR LESS. IF THE REINFORCEMENT HAS AN APPARENT OPENING SIZE (AOS) LESS THAN 70, PLACE A LAYER OF TYPE D-3 (FDDT STANDARD INDEX 188) GEOTEXTILE FABRIC WITH AOS >70 OVER THE REINFORCEMENT LAYERS.

EXCAVATION: EXCAVATE TO A DEPTH OF APPROXIMATELY 3 FEET BELOW THE POND BOTTOM, AND TO A PLAN AREA WHICH ALLOWS FOR A REINFORCEMENT/FABRIC INSTALLATION THAT EXTENDS/PROVIDES COVERAGE TO AT LEAST 10 FEET BEYOND THE SURFACE OPENING OF THE SINKHOLE, BUT DOES NOT INTERFERE WITH EXISTING TRAVEL LANES.

REMARKS: THE SINKHOLE WAS REPAIRED BY FILLING THE SINKHOLE TO WITHIN 3 FEET OF PLAN GRADE WITH CONCRETE RUBBLE OR GRAVEL. TWO LAYERS OF GEOSYNTHETIC REINFORCEMENT (TENSAR SR) (UNIAXIAL) GEOGRID AND ONE LAYER OF GEOTEXTILE FILTER FABRIC (TYPE D-3 (FDDT STANDARD INDEX 188) GEOTEXTILE FABRIC WITH AOS >70) WERE PLACED OVER THE FILL. THE REINFORCEMENT/FABRIC INSTALLATION EXTENDED/PROVIDED COVERAGE TO AT LEAST 10 FEET BEYOND THE SURFACE OPENING OF THE SINKHOLE. THE REPAIR WORK WAS COMPLETED TO A FIRM AND UNYIELDING SURFACE.

REFERENCE

Sinkhole Repair Plan, Crystal Engineering Corporation, 2008.

PROJECT

PEF DRY FUEL STORAGE FACILITY

TITLE

SINKHOLE REPAIR PLAN



Golder
Associates
Tampa, Florida

PROJECT No.	003-0004
DESIGN	JG 11/02/2009
GS	JG 11/02/2009
CHECK	MS 11/02/2009
REVIEW	KE 11/02/2009

SCALE 1:400

REV. 0

FIGURE: 1

Attachment F

Attachment F: Crystal River North Area (CRN) Drainage Basins



Attachment G

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

In re:
Petition for a Class G-II Ground Water
Quality Criteria Exemption
Progress Energy Crystal River
Energy Complex
Crystal River, Florida

OGC File No. 10-3490
Citrus County

**FINAL ORDER
GRANTING A WATER QUALITY CRITERIA EXEMPTION**

The Department of Environmental Protection hereby issues a Final Order granting a water quality criteria exemption for sodium, pursuant to Rule 62-520.500, Florida Administrative Code (F.A.C.), to Progress Energy (PE), Inc., Crystal River Energy Complex (CREC), Crystal River, Florida, Citrus County, as set forth below.

BACKGROUND AND FINDING of FACTS

1. On February 22, 2007, the Department received a petition from PE for a water quality criteria exemption associated with permitted industrial wastewater discharge to Class G-II ground water pursuant to Rule 62-520.500, F.A.C. The installation is PE's CREC, which is an existing facility located in Citrus County at 15760 West Powerline Street, Crystal River, Florida. PE has owned and operated the CREC since 1964.

2. The PE petition requests an exemption from the ground water standards contained in Rule 62-520.420(1), F.A.C., which are the same as the drinking water

standards in Rule 62-550.310, F.A.C. Specifically, the petition requests an exemption from the primary drinking water standard for sodium (standard is 160 mg/L). The sodium primary drinking water standard is health based. An alternative ground water concentration for sodium was not requested in the petition and is not being proposed because the sodium levels in the receiving Class III marine surface water are thousands of times greater than the sodium levels in the discharge to ground water at the CREC facility.

3. The CREC property consists of 4750 acres of which 650 acres are developed. The remaining property consists of undisturbed salt marsh, coastal wetlands and uplands. ~~The CREC is bordered on the west by the Class III marine~~ waters of the Gulf of Mexico and coastal wetlands, to the north and south by salt marsh and coastal wetlands and to the east by limestone mining and conservation land.

4. The Department has reviewed the PE petition for a water quality criteria exemption at the CREC, received on February 22, 2007, and determined that the petition meets the six criteria for issuance of an exemption pursuant to Rule 62-520.500(1), F.A.C.

5. The CREC facility is authorized to treat and discharge to ground water industrial wastewater under Permit No. FLA016960. Low volume wastewater effluent is treated and then discharged to ground water via two unlined evaporation/percolation ponds. Ground water is monitored in accordance with the approved ground water monitor plan for the CREC industrial wastewater Permit No. FLA016960.

6. On December 8, 2010, the Department issued an Intent to Grant a ground water quality criteria exemption for sodium to PE under Rule 62-520.500, F.A.C. A copy of the Intent to Grant is attached as Exhibit I.

7. The letter, dated December 9, 2010, with the executed Notice of Intent to Grant notified the petitioner of the Department's proposed agency action and advised it of the right to a hearing pursuant to Sections 120.569 and 120.57, F.S.

8. As required by the Intent to Grant, pursuant to Section 403.815, F.S., and Rule 62-110.106(7) and 62-520.500(3), F.A.C., the petitioner published notice on December 23, 2010, in the *Citrus County Chronicle*, a daily newspaper published in Citrus County, Florida, with general circulation in the facility area. A copy of the newspaper notice and proof of publication is attached as Exhibit II.

9. The Department published notice of the Intent to Grant on December 23, 2010, in the *Florida Administrative Weekly* informing the public of the Department's intended action and offering an opportunity for hearing pursuant to Sections 120.569 and 120.57, F.S. A copy of the notice is attached as Exhibit III.

10. The petitioner and interested parties having been advised of their rights under Chapter 120, F.S., and having failed or declined to file a petition pursuant to Sections 120.569 and 120.57, F.S., are hereby deemed to have waived those rights.

IT IS THEREFORE ORDERED that the PE petition for an exemption from the drinking water standard for sodium set forth in Rule 62-550.310, F. A. C., for the ground waters specified herein is hereby GRANTED, subject to these conditions:

(a) The ground water quality exemption is being granted in part based on the Department's understanding that the petitioner's CREC will not present a danger to the

public health, safety or welfare and will not result in any discernable environmental, social or economic effects.

(b) The ground water quality criteria exemption is granted for a duration of five (5) years from the date the Department signs this final order granting the exemption. Future exemptions must be petitioned for by the applicant through the Siting Coordination Office as a petition for a Modification of Certification for the facility pursuant to the Power Plant Siting Act, Section 403.516(1)(c), F.S. The exemption extends only to ground water elements of the PE industrial wastewater Permit No. FLA016960. The exemption will not affect NPDES discharge under the Clean Water Act to surface waters of the state, nor will it alter any permit conditions related to surface waters.

(c) The exemption provides relief only from the sodium standard contained in Rule 62-550.310, F.A.C., as referenced in Rule 62-520.420, F. A.C. All other ground water quality standards, and the minimum criteria contained in Rule 62-520.400, F. A. C., apply to this project.

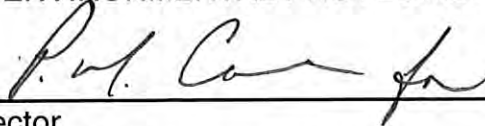
(d) The permittee shall monitor water quality in accordance with the specific conditions of the CREC industrial wastewater Permit No. FLA016960 and the approved ground water monitor plan.

A party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

DONE AND ORDERED this 27th day of JANUARY 2011, in Tallahassee,
Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Director
Division of Water Resource Management
State of Florida Department of
Environmental Protection
Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Copies furnished to:

Amanda Bush FDEP Tallahassee
Allen Hubbard FDEP Tallahassee
Mike Halpin FDEP Tallahassee
Jeff Greenwell FDEP Tampa
Yanisa G. Angulo P.E. FDEP Tampa

FILING AND ACKNOWLEDGMENT

FILED ON THIS DATE,
PURSUANT TO §120.52,
FLORIDA STATUTES, WITH
THE DESIGNATED
DEPARTMENT CLERK,
RECEIPT OF WHICH IS
HEREBY ACKNOWLEDGED.

Shirley Shields 01-28-2011
CLERK DATE

Attachment H

ATTACHMENT H

GROUNDWATER MONITORING, OPERATION AND MAINTENANCE REQUIREMENTS

Crystal River Energy Complex
15760 West Power Line Street
Crystal River, FL 34428
Citrus County

Latitude: 28° 57' 27" N Longitude: 82° 42' 36" W

These Groundwater Monitoring, Operation and Monitoring Requirements (GWMOMR) were developed by the Licensee, Progress Energy Florida, Inc., in conjunction with the Florida Department of Environmental Protection Southwest District's Industrial Wastewater (IWW) Section and Solid Waste (SW) Section to incorporate the groundwater (GW) monitoring requirements of Industrial Wastewater Permit, FLA016960, into the Licensee's Conditions of Certification (COC or License). The GWMOMR incorporates Units 4 and 5 IWW percolation pond, Units 1, 2 and 3 percolation pond system, Units 4 and 5 coal storage area, ash landfill, the flue gas desulfurization (FGD) blowdown treatment pond area, and south coal storage area. The Department's Southwest District IWW Section and SW Section are responsible for reviewing and approving all revisions to this document in accordance with Section A, Condition .XX. Procedures for Post-Certification Submittals and Section B, III DEP Facility-Wide Specific Conditions, A. Groundwater Monitoring Requirements of this License.

New sources or deletion of existing sources of wastewater with changes to water quality standards, applications for a new Water quality Criteria exemption pursuant to Rule 62-520.500 F.A.C., and improvements made at a treatment facility to provide for a new or expanded land application system with increase in the permitted capacity are considered modifications to the existing license. The licensee shall submit a petition for modification to the Conditions of Certification to the Department for review and approval in accordance with Section 403.516, F.S. and 62-17.211, F.A.C.

WASTEWATER TREATMENT:

The neutralized wastes are discharged into a percolation pond system consisting of four ponds including the "south Pond Expansion Area" (pond #4). Ponds #1 and #2 are operated in parallel. The ponds act as settling basins and the settled effluent from either pond is routed to Pond #3 which overflows into pond #4 (7.16 acres) for percolation. Pond #4 has the capability to hold the wastewater as well as direct rainfall resulting from a 25-year 24-hour storm in the 13.6-acre pond catchment area. The sources of wastewater include power plant equipment drains, laboratory drains, floor drains, neutralized regeneration wastes from the demineralizer resin beds, boiler blowdown, boiler drains (chemical cleanings), air pre-heater wash drains, sewage treatment plant effluents, stormwater drainage from the transformer area, treated [settling treatment] blowdown from the Units 4 & 5 Flue Gas Desulfurization, precipitator washes, boiler washes, boiler water blowdown, and reverse osmosis/micro filtration concentrate.

Neutralized wastewater generated from Units 4 and 5 are discharged into a percolation pond [pond #5]. The sources of wastewater include low volume wastes (demineralizer regeneration, cooling tower basin cleaning wastes, floor drainage, sample drains and similar wastes), metal cleaning wastes (including preheater and fireside wash) and boiler blowdown.

ASH LANDFILL:

The ash disposal area, which is located in the northeast corner of the Crystal River Energy Complex, was originally certified under the Units 4 and 5 Conditions of Certifications for the disposal of unsalable fly ash and bottom ash from

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Units 4 and 5 and was subsequently modified to include disposal of unsalable fly ash and bottom ash from Units 1 and 2. The ash disposal area is comprised of separate storage piles for fly ash, high chloride ash, commingled material, Units 1 and 2 bottom ash, and Units 4 and 5 bottom ash.

With Department approval, solid wastes other than the ash materials described in paragraph #1 of this section have been disposed in the ash disposal area. Examples of other solid wastes that have been placed in the ash disposal area following receipt of Department approval include, but are not limited to, the following:

- Non-hazardous sand blast grit
- Sediment/sludge from on-site domestic wastewater infiltration basin
- Sediment/sludge from on-site industrial wastewater infiltration basin
- Intake screenings and sediment from cooling towers
- Non-petroleum contaminated soil
- Percolation pond dredge material
- Cooling tower solids
- Mill scale
- FGD blowdown treatment pond solids*

** On September 18, 2012, the DEP Southwest District Office Solid Waste program reviewed and approved PEF's request to dispose of FGD blowdown solids from the FGD blowdown pond in the ash storage/disposal area pending submittal of a revised CCP/SWM plan and a revision to Attachment H that addresses this disposal activity including where in the ash storage disposal area the FGD solids will be disposed. This disposal activity is addressed in the CCP/SWM plan.*

All future requests for approval to dispose of solid wastes other than the ash materials described in paragraph #1 and the solid wastes described in paragraph #2 of this section shall be submitted to the DEP Southwest District Office Solid Waste program for review and approval, with copies to the Siting Office, in accordance with Section B, Condition I. Department of Environmental Protection E. Solid Waste Management Plan, of the Conditions of Certification.

I. SITE GROUNDWATER MONITORING

A. Construction Requirements

1. New background monitor well. The licensee shall construct a replacement ground water monitoring well for MWB-30 as depicted in the response to request for additional information dated December 17, 2010. The construction shall be completed within 45 days after Modification P is final. The following requirements apply to the construction of the well:

- a. New monitoring well shall be identified as MWB-30R; and
- b. screen depth shall be no deeper than necessary to intercept the seasonal low ground water table; and
- c. screen interval shall be no greater than 10 feet in length; and
- d. the bottom of the monitoring well shall be above the highest tide elevation; and
- e. existing MWB-30 shall be properly plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C.

2. New compliance monitoring wells

a. IWW Wells. The licensee shall construct ground water monitoring well MWC-32 and MWC-33 at the Northern boundary of the property as depicted in the response to request for additional information dated December 17, 2010. The licensee shall submit prior to the installation material specifications for the wells. Construction shall be complete within 180 days after Modification P is final. The following requirements apply to the construction of the wells:

- i. screen depth shall be no deeper than necessary to intercept the seasonal low ground water table; and

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- ii. screen interval shall be no greater than 10 feet in length; and
 - iii. the bottom of the monitoring well shall be above the highest tide
 - b. SW Wells. No new compliance wells are proposed for the ash disposal area.
3. The licensee shall give at least 72-hours notice to the Department's Southwest District Office, prior to the installation of any monitoring wells detailed in this license including the GWMOMR. [62-620.320(6)]
4. The QUARTERLY sampling and analysis of all new ground water monitoring wells shall begin upon proper completion of the GWMOMR well system in accordance with condition I.B.1. below. The wells shall be sampled for the parameters identified in Condition I.B.3. below. All field work done in connection with this GWMOMR regarding the collection of ground water samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (revised March 31, 2008, effective December 3, 2008), or as replaced by successor SOPs [Rule 62-160.210(1), F.A.C.]. All laboratory analyses done in connection with this GWMOMR shall be conducted by firms that hold certification from the Department of Health, Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C. [Rule 62-160.300(1), F.A.C.].
5. Prior to construction of new ground water monitoring wells, a soil boring shall be made at each new monitoring well location in order to establish the well depth and screen interval. [62-520.900(3)]
6. Location Requirements. Within 60 days after completion of construction of new ground water monitoring wells, the following information shall be submitted.
- a. IWW Wells. A properly scaled figure depicting monitor well locations (active and abandoned) with identification numbers shall be submitted to the Southwest District IWW Section. The figure shall also include (or attach) the monitoring well, top of casing, and ground surface elevations referenced to National Geodetic Vertical Datum (NGVD) of 1929 to the nearest 0.01 foot, along with monitor well location latitude and longitude to the nearest 0.1 second. [62-520.600(6) (i)]
 - b. SW Wells. A surveyed drawing shall be prepared in accordance with Rule 62-701.510 (3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum. The surveyed drawing shall include the monitor well and piezometer identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Licensed Professional Surveyor and Mapper and shall be submitted to the Southwest District SW Section.
7. Well Construction Detail Requirements. Within 30 days after completion of construction or abandonment of new ground water monitoring wells, the following information shall be submitted.
- a. For both IWW and SW wells, a copy of the Southwest Florida Water Management District (SWFWMD) State of Florida Permit Application to Construct, Repair, Modify, or Abandon a Well (LEGR.040.01 (June 2010) 40D-3.101(1), F.A.C.) and
 - b. IWW Wells, A copy of the SWFWMD Well Completion Report (LEG-R.005.02 (June 2010) 40D-3.411(1)(a), F.A.C.), SWFWMD Well Completion Report, and DEP Form 62-520.900(3), Monitor Well Completion Report, for each well shall be submitted to the Southwest District IWW Section. The DEP form can be accessed at <http://www.dep.state.fl.us/water/groundwater/forms.htm>. [62-532.410 and 62-520.900(3)]
 - c. SW Wells, SWFWMD Well Completion Report, and DEP Form 62-701.900(30), Monitoring Well Completion Report for each well shall be submitted to the Southwest District SW Section. The DEP form can be accessed at: [http://www.dep.state.fl.us/waste/quick_topics/forms/documents/62-701/62-701.900\(30\).pdf](http://www.dep.state.fl.us/waste/quick_topics/forms/documents/62-701/62-701.900(30).pdf).
8. Initial Sampling Requirements. Within 30 days of installation of all new wells within the existing Site boundary depicted in Attachment A of this license, the licensee shall conduct initial ground water sampling events as follow:

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a. IWW Wells. Sample all new ground water monitoring wells for the Primary Drinking Water parameters included in Rule 62-550, Florida Administrative Code, Public Drinking Water Systems (excluding asbestos, acrylamide, Dioxin, butachlor, epichlorohydrin, pesticides, and PCBs, unless reasonably expected to be a constituent of the discharge or an artifact of the site). In addition, volatile organics and extractable semivolatile organics shall be analyzed. Results of this initial sampling shall be submitted to the Southwest District IWW Section and the SCO within 60 days after sampling. [62-520.600]

b. SW Wells. Sample each new or replacement ground water monitoring well for analysis of the parameters listed in Rules 62-701.510 (8) (a) and (8) (d), F.A.C. Results of this initial sampling shall be submitted to the Southwest District SW Section and the SCO within 60 days after sampling.

9. All piezometers and monitoring wells not part of this GWMOMR are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., unless future use is intended. [62-532.500(5)]

B. Operational Requirements

1. During the period of operation authorized by this Certification the licensee shall continue to sample ground water at the monitoring wells identified in item.IB.2 below, in accordance with the COC and GWMOMR prepared in accordance with Rule 62-520.600, F.A.C.

2. The following monitoring wells shall be sampled for Groundwater Monitoring requirements:

Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing	Unit Monitored
MWB-30R	Background Well (replaced MWB-30)	20	Upper Floridan	New	Site background well
MWC-1	Compliance Monitoring Well	20	Upper Floridan	Existing	IWW well Unit 4 &5
MWI-7R	Intermediate Monitor Well (Relocated)	20	Upper Floridan	Existing	IWW well
MWC-16	Compliance Monitor Well	21.1	Upper Floridan	Existing	IWW well FGD pond
MWC-21R	Compliance Monitor Well	20	Upper Floridan	Existing	IWW well
MWC-27	Compliance Monitor Well	33	Upper Floridan	Existing	IWW well ponds units 1, 2 &3
MWC-28	Compliance Monitor Well	20	Upper Floridan	Existing	IWW well
MWC-29	Compliance Monitor Well	20	Upper Floridan	Existing	IWW well South coal
MWC-IF2	Compliance Monitor Well	14	Upper Floridan	Existing	IWW well ponds units 1, 2 &3
MWC-31	Compliance Monitor Well	20	Upper Floridan	Existing	IWW well FGD pond
MWC-32	Compliance Monitor Well Northern boundary of the property	20	Upper Floridan	New	IWW well
MWC-33	Compliance Monitor Well Northern boundary of the property	20	Upper Floridan	New	IWW well
MWI-2R2	Intermediate Monitor Well	20	Upper Floridan	Existing	SW well Ash landfill

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Monitoring Well ID	Alternate Well Name and/or Description of Monitoring Location	Depth (Feet)	Aquifer Monitored	New or Existing	Unit Monitored
MWC-12R	Compliance Monitor Well (For Primary Drinking Water Standards Only)	20	Upper Floridan	Existing	SW well Ash landfill
TWI-1R	Intermediate Monitor Well	22	Upper Floridan	Existing	SW well Ash Landfill
TWI-2R	Piezometer	24	Upper Floridan	Existing	SW well Ash Landfill
TWI-3	Intermediate Monitor Well	20	Upper Floridan	Existing	SW well Ash Landfill
TWI-4	Intermediate Monitor Well	20	Upper Floridan	Existing	SW well Ash Landfill
TWI-5	Intermediate Monitor Well	19.5	Upper Floridan	Existing	SW well Ash Landfill

3. The monitor wells specified in Condition.I.B.2 above shall be sampled for the parameters listed below:

Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Copper, Total Recoverable	Report	MG/L	Grab	Quarterly
Chloride (as Cl)	Report	MG/L	Grab	Quarterly
Iron, Total Recoverable	Report	MG/L	Grab	Quarterly
Nitrogen, Nitrate, Total (as N)	10.0	MG/L	Grab	Quarterly
pH*	Report	SU	In-situ	Quarterly
Sodium, Total Recoverable	Report	MG/L	Grab	Quarterly
Solids, Total Dissolved (TDS)	Report	MG/L	Grab	Quarterly
Specific Conductance*	Report	MMHOS/CM	In-situ	Quarterly
Turbidity*	Report	NTU	In-situ	Quarterly
Water Level Relative to NGVD	Report	FEET	In-situ	Quarterly
Antimony, Total Recoverable	6.0	UG/L	Grab	Quarterly
Arsenic, Total Recoverable	10.0	UG/L	Grab	Quarterly
Boron, Total Recoverable (GCTL Guidance concentration per 62-777F.A.C.)	Report	MG/L	Grab	Quarterly
Barium, Total Recoverable	2.0	MG/L	Grab	Quarterly
Beryllium, Total Recoverable	4.0	UG/L	Grab	Quarterly
Cadmium, Total Recoverable	5.0	UG/L	Grab	Quarterly
Mercury, Total Recoverable	2.0	UG/L	Grab	Quarterly
Selenium, Total Recoverable	50.0	UG/L	Grab	Quarterly
Chromium, Total Recoverable	100.0	UG/L	Grab	Quarterly
Lead, Total Recoverable	15.0	UG/L	Grab	Quarterly
Nickel, Total Recoverable	100.0	UG/L	Grab	Quarterly
Thallium, Total Recoverable	2.0	UG/L	Grab	Quarterly
Oxygen, Dissolved (DO)*	Report	MG/L	In-situ	Quarterly
Zinc, Total Recoverable	Report	MG/L	Grab	Quarterly
Fluoride, Total (as F)	4	MG/L	Grab	Quarterly
Cyanide, free	0.2	MG/L	Grab	Quarterly
Temperature, Water*	Report	°F	In-situ	Quarterly

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Parameter Name	Compliance Well Limit	Units	Sample Type	Monitoring Frequency
Sulfate, Total	Report**	MG/L	Grab	Quarterly
Aluminum, Total Recoverable	Report**	UG/L	Grab	Quarterly
Manganese, Total Recoverable	Report**	UG/L	Grab	Quarterly
Molybdenum, Total Recoverable	Report	UG/L	Grab	Quarterly
Silver, Total Recoverable	Report	UG/L	Grab	Quarterly
Strontium, Total Recoverable	Report	UG/L	Grab	Quarterly
Vanadium, Total Recoverable	Report	UG/L	Grab	Quarterly

* The field parameters shall be sampled per DEP–SOP-001/01, FS 2200 Ground Water Sampling, Figure FS 2200-2 Ground Water Purging Procedure (<http://www.dep.state.fl.us/water/sas/sop/sops.htm>) and recorded on Form FD 9000-24, Ground Water Sampling Log (<http://www.dep.state.fl.us/water/sas/qa/forms.htm>). For the IWW wells, the sampling logs shall be submitted with each ground water Part D DMR. For the SW wells, the sampling logs shall be submitted with each ground water report submitted in accordance with Condition #VI.B., below. The field parameters to be included in the ground water reports for the IWW wells and the SW wells shall be the last sample recorded on FD 9000-24.

Guidance Concentration or Secondary parameters are report only result on the DMR.

** Applicable to the SW wells associated with Ash Storage Area only – (MWB-30R, MWI – 2R2, MWC-12R, TWI-1R, TWI-3, TWI-4, and TWI-5)

4. Ground water quality criteria of chapter 62-520, F.A.C., shall be met at the edge of the zone of discharge (ZOD). Progress Energy Florida Crystal River Energy Complex is an existing installation as defined by Rule 62-520.200(10), F.A.C., thus the ZOD has been established per the discretion of the Department in consideration of the property extent and site-specific hydrology [62-520.465, F.A.C.]. Accordingly, the ZOD is defined by the downgradient terminus of the upland ground water regime prior to transition to a surface water regime. This ground water, surface water ZOD boundary is delineated by the location of facility compliance monitor wells. The vertical limit of the ZOD as defined by Rule 62-520.200(27), F.A.C., is the base of the Floridan aquifer.

5. Water levels shall be recorded prior to evacuating the well for sample collection. Elevation references shall include the top of the well casing and land surface at each well site (NGVD allowable) at a precision of plus or minus 0.01 feet. [62-520.600(11)(c)]

6. Ground water monitoring wells shall be purged prior to sampling to obtain a representative sample. [62-160.210]

7. Analyses shall be conducted on un-filtered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions. [62-520.310(5)]

8. If any monitoring well becomes inoperable or damaged to the extent that sampling or well integrity may be affected, the licensee shall notify the Department's SWD office within two business days from discovery, and a detailed written report shall follow within ten days after notification to the Department. The written report shall detail what problem has occurred and remedial measures that have been taken to prevent recurrence or request approval for replacement of the monitoring well. All monitoring well design and replacement shall be approved by the Department before installation. [62-520.600(6)(l)]

9. Every 5 years upon issuance of the Modification P COC, the licensee shall submit a proposal identifying the IWW wells in the Department-approved monitoring requirements that will be sampled for the Primary drinking water parameters included in Chapter 62-550, F.A.C., (excluding asbestos, acrylamide, Dioxin, butachlor, epichlorohydrin, pesticides, and PCBs, unless reasonably expected to be a constituent of the discharge or an artifact of the site). The selection of the wells should include at least one background well and one intermediate well, if they are available. Compliance well selections should be based on recent groundwater conditions. Sampling results should be submitted sixty days [60] upon Department's approval of the well proposal sampling. [62-520.600(5)(b)]

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10. Ground water monitoring test results for the IWW wells shall be submitted on Part D of DEP Form 62-620.910(10) (attached) and shall be submitted as required under Section II C below. Ground water monitoring results for the SW wells shall be submitted as required under Section VI.B., below.

II. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS:

Land Application Systems

A. Land Application:

Units 1, 2 & 3. An existing 0.91 MGD monthly average daily flow (MADF) land application system (G-001) consists of four [4] percolation ponds (Ponds 1-4). Land application system G-001 is located approximately at latitude 28° 57' 27" N, longitude 82° 42' 22" W.

Unit 4 & 5. An existing land application system (G-002) consists of one [1] percolation pond. Land application system G-002 is located approximately at latitude 28° 57' 52.6" N, longitude 82° 42' 00.9" W.

1. Water levels in ponds 1, 2, 3, 4 & 5 shall be recoded weekly on the part B DMRs. The part B DMRs shall be submitted quarterly in accordance to the schedule in Section II C below.

2. The licensee is authorized to discharge process wastewater, non-process wastewater, power plant equipment drains, laboratory drains, floor drains, neutralized regeneration wastes from the demineralizer resin beds, boiler blowdown, boiler drains (chemical cleanings), air pre-heater wash drains, sewage treatment plant effluents, stormwater drainage from the transformer area, treated blowdown from the Units 4 & 5 Flue Gas Desulfurization, precipitator washes, boiler washes, boiler water blowdown, and reverse osmosis/micro filtration concentrate to Land Application System G-001 [Units 1, 2 & 3], a percolation pond system. Such discharge shall be limited and monitored by the Licensee as specified below and reported in accordance with specific condition Section II C below.

	Discharge Limitations			Monitoring Requirements		
Parameters (units)	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	0.91	Report See Cond. II.A.6	--	Daily	Calculated	FLW-3
Flow (MGD)	--	Report See Cond. II.A.6	--	Daily	Meter	FLW-1
Flow (MGD)	--	Report See Cond. II.A.6	--	Daily	Meter	FLW-2
Water Level Relative to NGVD	--	Report See Cond. II.A.1	--	Weekly	In-situ	OTH-1
Water Level Relative to NGVD	--	Report See Cond. II.A.1	--	Weekly	In-situ	OTH-2
Water Level Relative to NGVD	--	Report See Cond. II.A.1	--	Weekly	In-situ	OTH-3

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	Discharge Limitations			Monitoring Requirements		
Parameters (units)	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Water Level Relative to NGVD	--	Report See Cond. II. A.1	--	Weekly	In-situ	OTH-4
pH (SU)	--	Report	Report	Quarterly	In-situ	EFF-1 EFF-2
Solids, Total Dissolved (TDS) (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Specific Conductance (UMHO/CM)	--	Report	--	Quarterly	In-situ	EFF-1 EFF-2
Oil and Grease (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Nitrogen, Nitrate, Total (as N) (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Chloride (as Cl) (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Cyanide, Total (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Antimony, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Arsenic, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Beryllium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Boron, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Cadmium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Copper, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Chromium, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Iron, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Lead, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Mercury, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Nickel, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Selenium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Silver, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Sodium, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Thallium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Zinc, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-1 EFF-2
Molybdenum, Total Recoverable		Report	--	Quarterly	Grab	EFF-1 EFF-2
Strontium, Total Recoverable		Report	--	Quarterly	Grab	EFF-1 EFF-2
Vanadium, Total Recoverable		Report	--	Quarterly	Grab	EFF-1 EFF-2

3. Effluent samples shall be taken at the monitoring site locations as described below:

Sample Point	Description of Monitoring Location
FLW-3	The sum of FLW-1 and FLW-2
FLW-1	The sum of all flows to percolation pond system not including the FGD blows down.
FLW-2	Flow from the FGD blow down into evaporation/percolation pond #3

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Sample Point	Description of Monitoring Location
EFF-2	Effluent from the FGD treatment system. At discharge pipe into evaporation/percolation pond #3
EFF-1	At discharge pipe into the active pond, either the East Pond or West Pond. Ponds will be rotated on a yearly basis, or as necessary.
OTH-1	Staff gauge located in Pond#1.
OTH-2	Staff gauge located in Pond#2.
OTH-3	Staff gauge located in Pond#3.
OTH-4	Staff gauge located in Pond #4

4. The Licensee shall contact and request authorizations from the Department's Southwest District Office, prior to placing into service any backup/ emergency treatment system for the FGD blow down. (i.e. Filter press). The request shall provide details and specification for the proposed system and operational details along with the expected duration.

5. All flow measurement devices shall be calibrated at least once every 12 months or based on the manufacturer requirements.

6. The Licensee is required to measure flow from the FGD blowdown to the CR 1, 2 & 3 Percolation Pond System at the locations identified as FLW-1, FLW-2, and FLW-3 in the DMRs of the GWMOMR required by this license. The Licensee shall record flow rates on the DMRs. Flow rate results shall be submitted with the DMR for each scheduled month and reported in accordance with Section II C below:

7. The licensee is authorized to discharge plant process wastewater, non-process wastewater, plant equipment drains, laboratory drains, floor drains, non-hazardous boiler cleaning wastewater, low volume wastes (demineralizer regeneration, cooling tower basin cleaning wastes, floor drainage, sample drains and similar wastes), metal cleaning wastes (including preheater and fireside wash) and boiler blowdown to Land Application System G-002 (Units 4 & 5), a percolation pond [pond #5]. Such discharge shall be limited and monitored by the Licensee as specified below and reported in accordance with Section II C below.

Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Flow (MGD)	--	Report See Cond II.A.9 & 10	--	Daily	Calculated	FLW-4
Water Level Relative to NGVD	--	Report See Cond. II.A.1	--	Weekly	In-situ	OTH-5
pH (SU)	--	Report	Report	Quarterly	In-situ	EFF-4
Solids, Total Dissolved (TDS) (MG/L)	--	Report	--	Quarterly	Grab	EFF-4

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	Discharge Limitations			Monitoring Requirements		
Parameters (units)	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Specific Conductance (UMHO/CM)	--	Report	--	Quarterly	In-situ	EFF-4
Oil and Grease (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Chloride (as Cl) (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Antimony, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Arsenic, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Beryllium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Boron, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Cadmium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Copper, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Chromium, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Iron, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Lead, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Mercury, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Nickel, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Selenium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4

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Parameters (units)	Discharge Limitations			Monitoring Requirements		
	Monthly Average	Daily Maximum	Daily Minimum	Monitoring Frequency	Sample Type	Sample Point
Sodium, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4
Thallium, Total Recoverable (UG/L)	--	Report	--	Quarterly	Grab	EFF-4
Zinc, Total Recoverable (MG/L)	--	Report	--	Quarterly	Grab	EFF-4

8. Effluent samples shall be taken at the monitoring site locations listed in this attachment, condition II.A.7 and as described below:

Sample Point	Description of Monitoring Location
FLW-4	Flow measurement at evaporation/percolation pond #5
EFF-4	Representative location from Evaporation/percolation pond #5 in the vicinity of the IWW discharge structures.
OTH-5	Staff gauge located in Pond#5

9. The total flows from Units 4 & 5 IWW to percolation pond #5 shall be calculated. Flows measurement could be obtained by meters or determined by an alternative method approved by the Department. Flow meters shall be installed, if needed within 240 days of the issuance of Mod P COC. An extension of time may be granted by the Department for good cause. This submittal is subject to the Post Certification Requirements in Section A.XX

10. The Licensee is required to measure flow at the discharge pipe from Units 4 & 5 to Percolation Pond System at the locations identified as FLW-4 in the DMRs of the GWMOMR required by this license. The Licensee shall record flow rates on the DMRs. Flow rate results shall be submitted with the DMR for each scheduled month and reported in accordance with Section II C below:

B. Other Methods of Disposal or Recycling

There shall be no discharge of industrial wastewater from this facility to ground or surface waters, except as authorized by the COC including this GWMOMR or by NPDES Permit No.s FL0000159 and FL036366.

C. Monitoring and Reporting Requirements – Industrial Wastewater Components

Monitoring requirements under this attachment are effective on the first day of the second month following issuance of the Modification P COC. Until such time, the licensee shall continue to monitor and report in accordance with previously administratively continued permit FLA016960 requirements, if any. During the period of operation authorized by the Condition of Certification, the Licensee shall complete and submit to the Southwest District IWW Section Discharge Monitoring Reports (DMRs) in accordance with the frequencies specified by the REPORT type (i.e., monthly, toxicity, quarterly, semiannual, annual, etc.) indicated on the DMR forms attached to this license. Monitoring results for each monitoring period shall be submitted in accordance with the associated DMR due dates below.

REPORT Type on DMR	Monitoring Period	Mail or Electronically Submit by
Monthly or Toxicity	first day of month – last day of month	28 th day of following month

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REPORT Type on DMR	Monitoring Period	Mail or Electronically Submit by
Quarterly	January 1 - March 31 April 1 – June 30 July 1 – September 30 October 1 – December 31	April 28 July 28 October 28 January 28
Semiannual	January 1 – June 30 July 1 – December 31	July 28 January 28
Annual	January 1 – December 31	January 28

DMRs shall be submitted for each required monitoring period including months of no discharge. The licensee may submit either paper or electronic DMR forms. If submitting paper DMR forms, the licensee shall make copies of the attached DMR forms, without altering the original format or content unless approved by the Department, and shall mail the completed DMR forms to the Department's Southwest District Office at the address specified below by the twenty-eighth (28th) of the month following the month of operation.

Florida Department of Environmental Protection
Industrial Wastewater Program
Southwest District Office
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

If submitting electronic DMR forms, the licensee shall use the electronic DMR system(s) approved in writing by the Department and shall electronically submit the completed DMR forms to the Department by the twenty-eighth (28th) of the month following the month of operation. Data submitted in electronic format is equivalent to data submitted on signed and certified paper DMR forms. *[62-620.610(18)]*

Unless specified otherwise in this GWMOMR, all reports and notifications required by this GWMOMR, including twenty-four hour notifications, shall be submitted to or reported to the Southwest District Office at the address specified below:

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

Phone Number - (813) 632-7600
FAX Number - (813) 632-7662
Email – swd_dw@dep.state.fl.us

An Electronic copy of all submittals required by this Plan shall also be sent to the Siting Coordination Office by email to SCO@dep.state.fl.us. If electronic copies are not available, copies can be mailed to:

Siting Coordination Office
3900 Commonwealth Boulevard
Tallahassee, FL 32399

Phone Number- (850) 245-2002
Fax Number-(850) 245-2020

[62-620.610(18)][62-601.300(1),(2), and (3)]

D. Other Limitations

1. All reports and other information shall be signed in accordance with requirements of Rule 62-620.305, F.A.C.

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2. The Licensee shall provide safe access points for obtaining representative samples which are required by this attachment.

3. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.

4. Any bypass of the treatment facility which is not included in the monitoring specified in Sections I.B.3, and II.A.2&7 above, is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reportable data. All monitoring results shall be reported on the appropriate DMR

III. INDUSTRIAL SLUDGE/SOLIDS

A. Additional Land Application Requirements.

1. Routine aquatic weed control and regular maintenance of storage pond embankments and access areas are required. [62-620.320(6)]

2. The bottoms for the settling basins and percolation basins shall be cleaned out periodically, or when necessary, to remove the excess buildup of sediments, and to ensure continuous percolation capability for the percolation basins. Solids and sludges from this system shall be recovered and either disposed at a Class I landfill site authorized by the Department to accept solid waste under Chapter 62-701, F.A.C. or, in the on-site ash storage/disposal area if authorized in the plant's coal combustion product/solid waste materials management plan mentioned in VI.A. below.

3. During normal plant operation, the freeboard of the percolation basins shall not be less than three feet except after rainfall events exceeding the 25-year, 24-hour storm event.

4. The licensee shall not discharge water from the percolation basins to surface waters of the State.

IV. DESIGN, CONSTRUCTION, OPERATION AND MAINTENANCE OF WASTEWATER FACILITIES REQUIREMENTS

A. General Operation and Maintenance Requirements

1. During the period of operation authorized by this license, the wastewater facilities shall be operated under the supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control. [62-620.320(6)]

2. The licensee shall maintain the following records and make them available for inspection on the site of the licensed facility.

a. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;

b. Copies of all reports required by the license for at least three years from the date the report was prepared;

c. Records of all data, including reports and documents, used to complete the application for at least three years from the date the application was filed;

d. A copy of the current license;

e. A copy of any required record drawings; and

f. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date of the logs or schedules.

[62-620.350]

B. Impoundment Operation and Maintenance

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1. All impoundments used to hold or treat wastewater and other associated wastes shall be operated and maintained to prevent the discharge of pollutants to waters of the State, except as authorized under NPDES Permit Numbers FL0000159 and FL0036366.

2. Operation and maintenance of any impoundment shall be in accordance with all applicable State regulations. When practicable, piezometers or other instrumentation shall be used as a means to aid monitoring of impoundment integrity.

C. Impoundment Integrity Inspections

1. No later than 180 days following issuance of the Mod P COC, and annually thereafter, all impoundments shall be inspected by qualified personnel with knowledge and training in impoundment integrity. Annual inspections shall include observations of dike and toe areas for erosion, cracks or bulges, seepage, wet or soft soil, changes in geometry, the depth and elevation of the impounded water, sediment or slurry, freeboard, changes in vegetation such as overly lush, dead or unnaturally tilted vegetation, and any other changes which may indicate a potential compromise to impoundment integrity.

2. Within 30 days after the annual inspection, a qualified, responsible officer shall certify to the Department that no breaches or structural defects resulting in the discharges to surface waters of the State and that no changes were observed which may indicate a potential compromise to impoundment integrity during the previous calendar year.

3. The certification shall also include a statement that the impoundments provides the necessary minimum wet weather detention volume to contain the combined volume for all direct rainfall and all rainfall runoff to the pond resulting from the 10-year, 24-hour rainfall event and maximum dry weather plant waste flows which could occur during a 24-hour period.

4. The licensee shall conduct follow-up inspections within 7 days after large or extended rain events (i.e., 25-year, 24-hour precipitation event).

5. In the event that the impoundment integrity is compromised and may result in a potential discharge to surface waters of the State, the licensee shall notify the Department within twenty-four (24) hours of becoming aware of the situation and provide a proposed course of corrective action and implementation schedule within fifteen (15) days after notifying the Department. Observed changes such as significant increases in seepage or seepage carrying sediment may be signs of imminent impoundment failure and should be addressed immediately.

D. Reporting and Recordkeeping Requirements for Impoundments

1. The summarized findings of all monitoring activities, inspections, and corrective actions pertaining to the impoundment integrity, and operation and maintenance of all impoundments shall be documented and kept on-site in accordance with Condition V.A. below, and made available to Department inspectors upon request.

2. Starting with the issuance of the Modification P COC., all pertinent impoundment permits, design, construction, operation, and maintenance information, including but not limited to: plans, geotechnical and structural integrity studies, copies of permits, associated certifications by qualified, Florida-registered professional engineer, and regulatory approvals, shall be kept on site in accordance with Condition IV.A. above and made available to Department inspectors upon request.

V. OTHER SPECIFIC CONDITIONS

A. Specific Conditions Applicable

1. Drawings, plans, documents or specifications submitted by the licensee, not attached hereto, but retained on file at the Southwest District Office, are made a part hereof.

2. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) F.S., applicable portions of reports to be submitted as required by this GWMOMR shall be signed and sealed by the professional(s) who prepared them.

VI. SOLID WASTE MANAGEMENT

A. Coal Combustion Product and Non-Coal Combustion Products

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According to the September 14, 2010 Coal Combustion Product (CCP)/Solid Waste Materials Management Plan, prepared by Golder Associates, received December 20, 2010, materials generated at Crystal River Energy Complex (CREC) Units 1, 2, 4, and 5 have been grouped into Coal Combustion Products (CCPs), Non-Coal Combustion Products (Non-CCPs), and Miscellaneous Solid Wastes, as follow:

1. CCPs: fly ash (all units), Bottom Ash – pyrite free (Units 1 and 2), Bottom Ash (Units 4 & 5), Flue Gas Desulfurization Products (Gypsum) (Units 4 and 5).
2. Non-CCPs: Pyrite Mill Reject (Units 1 and 2), Cooling Tower Solids (Units 4 and 5, Helper Cooling Tower Solids), Dredge Materials (intake/discharge canals, ditch cleanings, IWW ponds), Truck Wash Solids.
3. Miscellaneous Solid Wastes: Units 4 and 5 Coal Yard Soil and Impacted Soils (site-wide).
4. See Table 1 “Summary of Coal Combustion Product and Non-Coal Combustion Product Manual” of the CCP/Solid Waste Materials Management Plan for the Department-approved disposition of CCPs and Non-CCPs (i.e., off-site disposal, beneficial use off-site, on-site disposal, etc.).

B. Monitoring and Reporting Requirements – Solid Waste Components

1. Ground Water Monitor Well Locations. The ground water monitoring network for the ash landfill (i.e., the “SW wells”) are located on the figure (Attachment I) prepared by PEF, as follow:

Well #	Scheduling Notes	WACS Testsite #	Aquifer Monitored	Well Designation	Location
MWI-2R2	A	28398	Floridan	Intermediate	See figure
MWC-12R	A	28399	Floridan	Compliance	See figure
TWI-1R	A, B	28400	Floridan	Intermediate	See figure
TWI-3	A, B	28401	Floridan	Intermediate	See figure
TWI-4	A, B	28402	Floridan	Intermediate	See figure
TWI-5	A, B	28403	Floridan	Intermediate	See figure
TWI-2R	A, B	28404	Floridan	Piezometer	See figure
MWB-30R	B	28738	Floridan	Background	See figure

Scheduling Notes:

A = existing well/piezometer; construction details previously submitted.

B = Department form #62-701.900(30), Monitoring Well Completion Report shall be submitted to the Southwest District SW Section by the licensee within 60 days of final approval of Modification P of this license, the form referenced in Condition #I.A.7.c., above.

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells locked to minimize unauthorized access. [62-701.510(3)(d)5, F.A.C.]

2. Water Quality Reporting Requirements. The results of each ground water sampling event conducted at the ash landfill of the Crystal River Energy Complex to comply with the conditions presented herein shall be included in Electronic Data Deliverable (EDD) reports that provide:

- a. Required water quality monitoring reports and all analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf file format. The water quality monitoring EDD reports shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at:

<http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>.

Water quality monitoring reports shall provide the following information:

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- i. Cover letter;
- ii. Chain of custody forms;
- iii. Water levels;
- iv. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
- v. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.

In addition to the above water quality reports, PEF will provide ground water contour maps and ground water flow analysis utilizing existing groundwater monitoring well data from TWI-1R, TWI-2R (piezometer water level measurements), TWI-3, TWI-4, TWI-5, MWI-2R2, and MWC-12R).. Contour map information will be collected from the aforementioned groundwater wells on a semi-annual basis and will be summarized and submitted in an annual report provided to the Department within 90 days following the second semi-annual groundwater contour data collection effort. The annual summary report containing contour maps and ground water flow analysis shall be generated, signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations.

The report of results shall be submitted to:

Department of Environmental Protection, Southwest District Office, Solid Waste Section,
13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,

Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road,
MS 4565, Tallahassee, FL 32399-2400.

b. The Licensee shall submit to the Southwest District SW Section the results of analyses reported for each sampling event conducted at the “SW wells” identified in #I.B.2. above, by the following due dates:

- i. Condition #I.A.8.b. above – results of ground water initial sampling at SW wells shall be submitted within 60 days after sampling.
- ii. Condition #I.B.3. above – results of ground water routine, quarterly sampling at the site background wells and all SW wells shall be submitted by April 28, July 28, October 28, and January 28 of each year for the periods January 1-March 31, April 1-June 30, July 1-September 30, and October 1-December 31, respectively.

VII. FACILITY-WIDE GENERAL CONDITIONS

A. This license does not relieve the licensee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this license source; nor does it allow the licensee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The licensee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this license which has a reasonable likelihood of adversely affecting human health or the environment. It shall not be a defense for a licensee in an enforcement action that it would have been necessary to halt or reduce the licensee activity in order to maintain compliance with the conditions of this license. [62-620.610(5)]

B. The licensee shall report to the Department's Southwest District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the licensee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the licensee 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 time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

1. The following shall be included as information which must be reported within 24 hours under this condition:

- a. Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
- b. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
- c. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
- d. Any unauthorized discharge to surface or ground waters.

2. Oral reports as required by this subsection shall be provided as follows:

a. For unauthorized releases or spills of untreated or treated wastewater reported pursuant to subparagraph B.1.d that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the Department by calling the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Warning Point:

- iii. Name, address, and telephone number of person reporting;
- iv. Name, address, and telephone number of permittee or responsible person for the discharge;
- v. Date and time of the discharge and status of discharge (ongoing or ceased);
- vi. Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
- vii. Estimated amount of the discharge;
- viii. Location or address of the discharge;
- ix. Source and cause of the discharge;
- x. Whether the discharge was contained on-site, and cleanup actions taken to date;

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- xi. Description of area affected by the discharge, including name of water body affected, if any; and
- xii. Other persons or agencies contacted.

b. Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to Department's Southwest District Office within 24 hours from the time the permittee becomes aware of the circumstances.

3. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Southwest District Office shall waive the written report. [62-620.610(20)]

C. Bypass Provisions.

1. Bypass" means the intentional diversion of waste streams from any portion of a treatment works.

2. Bypass is prohibited, and the Department may take enforcement action against a Licensee for bypass, unless the licensee affirmatively demonstrates that:

a. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and

b. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and

c. The Licensee submitted notices as required under facility-wide General Condition VII.C.3. of this Attachment H.

3. If the licensee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The licensee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as under Facility-Wide General Condition VII.B of this Attachment H. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.

4. The Department shall approve an anticipated bypass, after considering its adverse effect, if the permittee demonstrates that it will meet the three conditions listed in Facility-Wide General Condition. C2. a through c of this Attachment H.

5. A permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Facility-Wide General Condition. C. 2 through 4 of this Attachment H.

D. Upset Provisions

1. A licensee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed contemporaneous operating logs, or other relevant evidence that:

a. An upset occurred and that the licensee can identify the cause(s) of the upset;

b. The licensed facility was at the time being properly operated;

c. The licensee submitted notice of the upset as required in Facility-Wide General Condition B of this Attachment H; and

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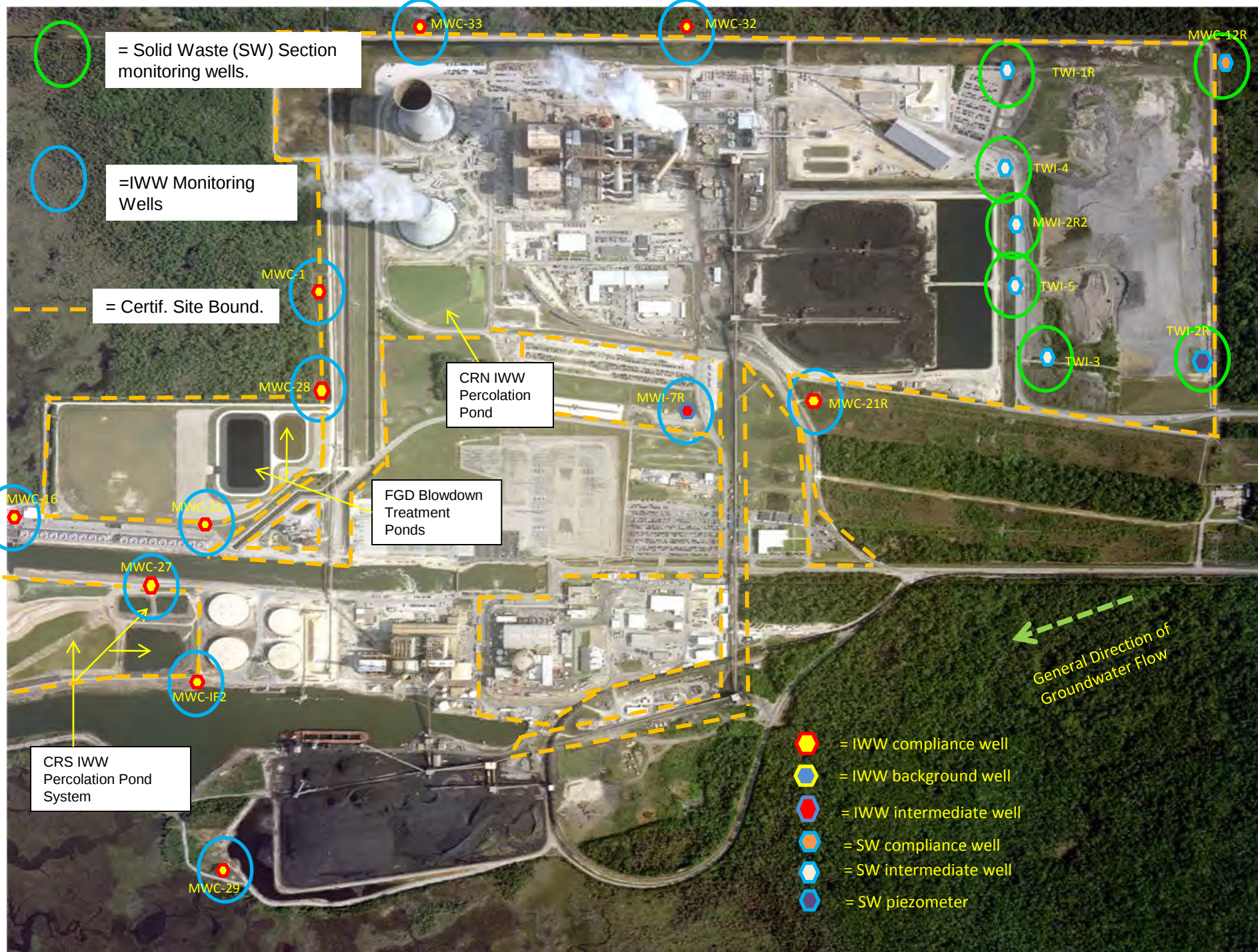
d. The licensee complied with any remedial measures required in Facility-Wide General condition A of this Attachment H.

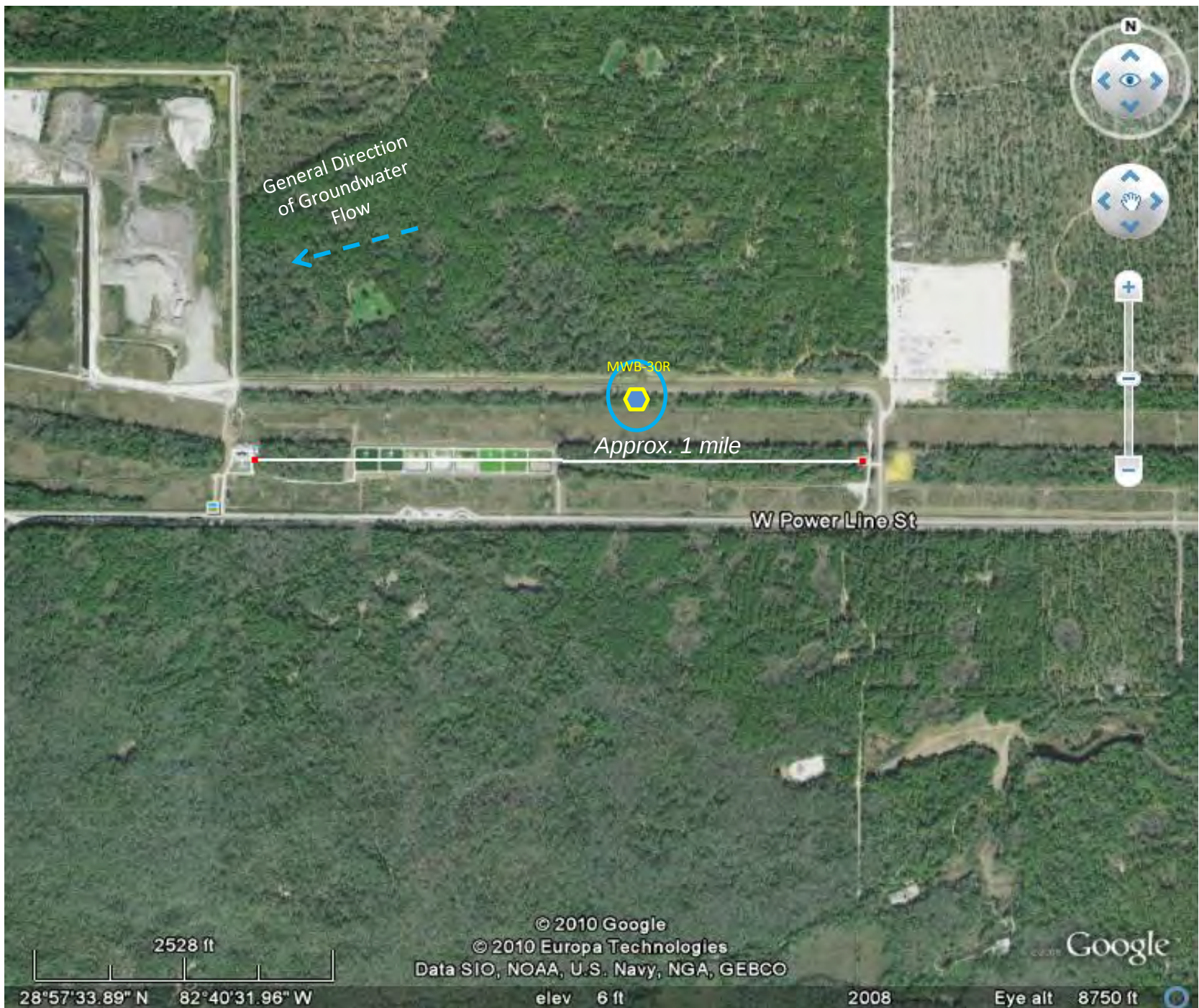
2. In any enforcement proceeding, the burden of proof for establishing the occurrence of an upset rests with the licensee.

3. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

[62-620.610(23), F.A.C.]

Attachment I





Attachment J

ATTACHMENT “J”

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT WATER SUPPLY PLAN & SPECIFIC CONDITIONS

**Crystal River Energy Complex – Units
1, 2, 3, 4 & 5 (CREC) & Citrus
Combined Cycle Facility (Citrus CC) –
Units 1 and 2
15760 West Powerline Street
Crystal River, FL 34428
Citrus County**

CREC -	Latitude: 28° 57' 27" N	Longitude: 82° 42' 36" W
Citrus CC -	Latitude: 28° 58' 6" N	Longitude: 82° 40' 16" W

These SWFWMD requirements were developed by the Licensee in conjunction with the SWFWMD's Water Use Permit Bureau to incorporate water use requirements into the Licensee's Conditions of Certification. This attachment incorporates requirements related to Crystal River Energy Complex (CREC) Units 1, 2, 3, 4 and 5 withdrawals, and the new Citrus Combined Cycle (CCC) Units 1 and 2 withdrawals. The SWFWMD is responsible for reviewing and approving all revisions to this document in accordance with its Conditions of Certification.

The following Specific Conditions shall apply facility-wide. Compliance with these Specific Conditions shall be the responsibility of the Licensee.

The Licensee is authorized to withdraw up to 5.309 million gallons per day (mgd) (annual average) and 5.809 mgd (peak demand) of groundwater for construction, operation, maintenance, decommissioning, and/or demolition of CREC Units 1, 2, 3, 4, and 5, and CCC Units 1 and 2, unless reduced by the SWFWMD based on the annual Water Use Summary Report submitted by the Licensee for SWFWMD review and approval, pursuant to Condition VIII.A.2.

District Identification (DID) Nos. 1 through 7, and 14 through 16 shown in Table 1 below were associated with tracking WUP No. 20003672.001 previously issued for CREC Units 3, 4 and 5, while DID Nos. 18 through 22 shown below are transferred from WUP No. 20004695.004 previously issued for CREC Units 1, 2 and 3. These withdrawals are hereby combined and henceforth tracked under WUP No. 20003672.002 issued for CREC Units 1, 2, 3, 4 and 5, and the new CCC Units 1 and 2.

A. Withdrawal Quantities and Facilities

Table 1

District ID / Licensee ID	Diameter (In.)	Total Depth (ft. bls)	Cased Depth (ft. bls)	Water Allocation	
				Annual Average Gallons per Day *	Peak Month
1 / PW-1	10	200	35	430,900	430,900
2 / PW-2	10	200	47	430,900	430,900
3 / PW-3	10	200	60	430,900	430,900
4 / PW-4	10	200	41	430,900	430,900
5 / PW-5	10	200	35	430,900	430,900
6 / PW-6	10	200	50	430,900	430,900
7 / PW-7	10	200	50	430,900	430,900
14 / PW-8	12	220	84.5	430,900	430,900
15 / PW-9a	12	200	58.5	430,900	430,900
16 / PW-10a	12	200	58.5	430,900	430,900
18 / PW1A	5	42	42	25,000	37,500
19 / PW1B	8	42	42	25,000	37,500
20 / SPW3	10	90	36	380,000	570,000
21 / SPW4	10	125	37	285,000	427,500
22 / SPW5	10	72	UNK	285,000	427,500
Total =				5,309,000 *	5,809,000**

* Measured on a rolling annual average daily flow (RAADF) basis.

** Based on a 1.500 MGD peak month value allowed for Licensee ID Nos. PW1A, PW1B, SPW3, SPW4 and SPW5.

B. *Submit Reports/Data*

All reports and data required by condition(s) shall be submitted to the District according to the due date(s) contained in the specific condition. If the condition specifies that a District-supplied form is to be used, the Licensee should use that form in order for its submission to be acknowledged in a timely manner. The Licensee may use the District Permit Information Center (www.swfwmd.state.fl.us/permits/epermitting/) to submit data, plans or reports online. There are instructions at the District website on how to register to set up an account to do so. If the report or data are received on or before the tenth day of the month following data collection, it shall be deemed to be a timely submittal.

All mailed reports and data are to be sent to:
Southwest Florida Water Management District
Tampa Regulation Department, Water Use Permit Bureau
7601 U.S. Hwy. 301 North
Tampa, Florida 33637-6759

Submission of plans and reports: Unless submitted online or otherwise indicated in the COC, the original and two copies of each plan and report, such as conservation plans, environmental analyses, aquifer test results, per capita annual reports, etc. are required.

Submission of data: Unless otherwise indicated in the COC, an original (no copies) is required for data submittals such as crop report forms, meter readings and/or pumpage, rainfall, water level evapotranspiration, or water quality data. (499)

C. *Distribution Flexibility*

The annual average daily, peak month, and maximum daily, if applicable, quantities shown in the withdrawal point quantity table (Table 1) are estimates based on historic and/or projected distribution of pumpage, and are for water use inventory and impact analysis purposes only. The quantities listed 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 a rolling annual average daily flow basis, so long as adverse environmental impacts do not result and the Licensee complies with all other conditions of this certification. In all cases, the total average annual daily withdrawal and the total peak monthly daily withdrawal are limited to the quantities set forth above. (221)

D. *Environmental Impacts, Monitoring, and Mitigation: Environmental Assessment*

1. *Environmental Monitoring Plan*

Licensee shall maintain the District-approved Environmental Monitoring Plan. This monitoring plan, at a minimum utilizes the SWFWMD's Wetland Assessment Procedure to evaluate the relative condition of surface waters and wetlands in areas affected by water withdrawals of Licensee from the wells listed in Table 1 above. Monitoring reports associated with the plan shall be provided in the annual monitoring report required by Item 6 below. After two years of monitoring following groundwater use rising to more than 5 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, this Appendix will be revised accordingly.

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. Staff Gauges:

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. Rain Gauges:

Licensee shall maintain a continuous recording rain gauge (District ID No. 17, Licensee ID No. 17) 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. Data Handling:

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 April 1st of each year for the preceding water year (January 1 – December 31). 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.

E. Compliance Reporting

The Licensee shall submit a compliance report beginning January 28, 2018 and at 10 year intervals thereafter. 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 groundwater 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 groundwater 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 groundwater 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 or this Appendix 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

The withdrawal facilities listed in Table 1 above shall continue to be maintained and operated with existing, non-resettable, totalizing flow meter(s) or other measuring device(s) as approved by the SWFWMD Water Use Permit Bureau Chief. Monthly meter reading and reporting, as well as meter accuracy checks every five years shall be in accordance with instructions in Exhibit A, Metering Instructions, attached to and made part of this Attachment. (719)

G. Water Quality Sampling

Water quality samples from the withdrawal points listed below in Table 2 shall be collected after pumping the withdrawal point at its normal rate for a pumping time specified below, or to a constant temperature, pH, and conductivity. The frequency of sampling per water quality parameter is listed in the table according to the withdrawal point. The recording and reporting shall begin according to the first sample date for existing wells and shall begin within 90 days of completion of any proposed wells. Samples shall be collected whether or not the well is being used unless infeasible. If sampling is infeasible, the Permittee shall indicate the reason for not sampling on the water quality data form or in the space for comments in the WUP Portal for data submissions. For sampling, analysis and submittal

requirements see Exhibit A, Water Quality Sampling Instructions, attached to and made part of this Attachment. (752)

Table 2

District ID No.	Licensee ID No.	Minimum Pumping Time (min.)	Parameter	Sampling Frequency
			Chlorides, Sulfates and TDS	February, May, August, and November
1	PW-1	20		
2	PW-2	20		
3	PW-3	20		
4	PW-4	20		
5	PW-5	20		
6	PW-6	20		
7	PW-7	20		
14	PW-8	20		
15	PW-9a	20		
16	PW-10a	20		
21	SPW4	20		

2. Water quality samples from the monitor sites listed below in Table 3 shall be collected and analyzed for the parameter(s) specified at the frequency indicated. For sampling, analysis and submittal requirements see Exhibit A, Water Quality Sampling Instructions, attached to and made part of this Attachment. (750)

Table 3

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		

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. (276)

4. The Licensee shall continue to maintain the monitor well(s) or piezometer(s) listed below in Table 4 and report them to the District at the frequency listed. Water levels shall be recorded relative to National Geodetic Vertical Datum (NGVD), and to the maximum extent possible, recorded on a regular schedule: same time each day, same day each week, same week each month as appropriate to the frequency noted. The readings shall be reported online via the WUP Portal at the District website (www.watermatters.org) or mailed in hardcopy on District-provided forms to the Water Use Permit Bureau, on or before the tenth day of the following month. The frequency of recording may be modified by the SWFWMD Water Use Permit Bureau Chief, as necessary to ensure the protection of the resource. (756)

Table 4

SWFWMD ID. No	Licensee ID No.	Frequency
8	MZ-2I	Monthly
9	MZ-2D	Monthly
10	MZ-2S	Monthly
11	MZ-1S	Monthly
12	MZ-1I	Monthly
13	MZ-1D	Monthly
23	MONW	Monthly

H. Vertical Datum Conversion

Before January 1, 2016, the Permittee shall submit a plan where the existing water level monitoring sites, District ID Nos. 8, 9, 10, 11, 12, 13, and 23, Licensee ID Nos. MZ-2I, MZ-2D, MZ-2S, MZ-1S, MZ-1I, MZ-1D and MONW shall be re-surveyed to North American Vertical Datum 1988. The plan shall specify which monitor sites will be re-surveyed and when it will be done. Following District approval, the plan shall be implemented and a copy of each certified resurvey will be submitted to the District according to the schedule. (850)

I. Standard Conditions

1. With advance notice to the Licensee, SWFWMD staff with proper identification shall have permission to enter, inspect, collect samples, take measurements, observe permitted and related facilities and collect any information deemed necessary to protect the water resources of the area and to determine compliance with the approved plans, specifications and conditions of this permit. The Licensee shall either accompany SWFWMD staff onto the property or make provision for access onto

the property. The SWFWMD may require the Licensee to submit water samples when the SWFWMD determines there is a potential for adverse impacts to water quality. (265)

2. All permits or other water use authorizations are contingent upon continued ownership or legal control of all property on which pumps, wells, diversions or other water withdrawal facilities are located. (266)

3. When necessary to analyze impacts to the water resource or existing users, the SWFWMD shall require the Licensee to install flow metering or other measuring devices to record withdrawal quantities and submit the data to the District. (269)

4. The SWFWMD shall collect water samples from any withdrawal point listed in the permit or shall require the permittee to submit water samples when the SWFWMD determines there is a potential for adverse impacts to water quality. (271)

5. A SWFWMD identification tag shall be prominently displayed at each withdrawal point that is required by the SWFWMD to be metered or for which withdrawal quantities are required to be reported to the SWFWMD, by permanently affixing the tag to the withdrawal facility. (277)

6. The 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 SWFWMD shall require the Licensee to mitigate the impacts. Examples of adverse impacts include the following:

- A. Significant reduction in levels or flows in water bodies such as lakes, impoundments, wetlands, springs, streams or other watercourses; or
- B. Damage to crops and other vegetation causing financial harm to the owner; and
- C. Damage to the habitat of endangered or threatened species. (361)

7. The Licensee shall mitigate any adverse impact to existing legal uses caused by withdrawals. When adverse impacts occur or are imminent, the SWFWMD may require the Licensee to mitigate the impacts. Adverse impacts include:

- A. A reduction in water levels which impairs the ability of a 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 an aquifer or water body. (362)

8. Licensee shall notify the SWFWMD in writing within 30 days of any sale, transfer, or conveyance of ownership or any other loss of permitted legal control of the site and / or related facilities from which the permitted consumptive use is made. Where Licensee's control of the land subject to the certification was demonstrated through a lease, the Licensee must either submit documentation showing that it continues to have legal control or transfer control of the permitted system / project to the new landowner or new lessee. All transfers of ownership are subject to the requirements of Rule 40D-1.6105, F.A.C. Alternatively, the Licensee may surrender the consumptive use permit to the SWFWMD, thereby relinquishing the right to conduct any activities under the permit. (382)

9. All consumptive uses authorized by the COCs shall be implemented as set forth in the conditions, including any documents incorporated by reference in a specific condition. The SWFWMD may request that DEP revoke this certification, in whole or in part, or take enforcement action, pursuant to sections 373.136 or 373.243, F.S., unless a modification has been obtained. (403)

10. Water use authorized under the SWFWMD's conditions do not convey to the Licensee any

property rights or privileges other than those specified herein, nor relieve the Licensee from complying with any applicable local government, state, or federal law, rule, or ordinance. (404)

11. The Licensee shall cease or reduce surface water withdrawal as directed by the SWFWMD if water levels in lakes fall below the applicable minimum water level established in Chapter 40D-8, F.A.C., or rates of flow in streams fall below the minimum levels established in Chapter 40D-8, F.A.C. (409)

12. The Licensee shall cease or reduce withdrawal as directed by the SWFWMD if water levels in aquifers fall below the minimum levels established by the SWFWMD. (410)

13. The Licensee is advised that the substantive provisions of section 373.239, F.S., and Rule 40D-2.331, F.A.C., are applicable to modifications relating to SWFWMD conditions for water use. (412)

14. The 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 the Licensee's water use classification, these conditions shall be subject to those requirements upon notice and after a reasonable period for compliance. (556)

15. The SWFWMD may establish special regulations for Water-Use Caution Areas. At such time as the SWFWMD adopts such provisions, this permit shall be subject to them upon notice and after a reasonable period for compliance. (564)

16. Nothing in these conditions should be construed to limit the authority of the SWFWMD to declare a water shortage and issue orders pursuant to chapter 373, F.S. In the event of a declared water shortage, the Licensee must adhere to the water shortage restrictions, as specified by the SWFWMD. The Licensee is advised that during a water shortage, reports shall be submitted as required by SWFWMD rule or order. (565)

17. The SWFWMD-related conditions of certification are based on information provided by the 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 the certification, it is determined by the SWFWMD that a statement in the application and in the supporting data are found to be untrue and inaccurate, 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 of this COCs The Licensee shall immediately notify the SWFWMD in writing of any previously submitted information that is later discovered to be inaccurate. (566)

Attachment J
Exhibit A - Instructions

METERING INSTRUCTIONS

The Licensee shall meter withdrawals from surface waters and/or the ground water resources, and meter readings from each withdrawal facility shall be recorded on a monthly basis within the last week of the month. The meter reading(s) shall be reported to the SWFWMD Water Use Permit Bureau on or before the tenth day of the following month for monthly reporting frequencies. For bi-annual reporting, the data shall be recorded on a monthly basis and reported on or before the tenth day of the month following the sixth month of recorded data. The Licensee shall submit meter readings online using the Permit Information Center at <http://www.swfwmd.state.fl.us/permits/> or on District-supplied scanning forms unless another arrangement for submission of this data has been approved by the SWFWMD. Submission of such data by any other unauthorized form or mechanism may result in loss of data and subsequent delinquency notifications. Call the Water Use Permit Bureau in Tampa at (813) 985-7481 if difficulty is encountered.

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

1. The meter(s) shall be non-resettable, totalizing flow meter(s) that have a totalizer of sufficient magnitude to retain total gallon data for a minimum of the three highest consecutive months permitted quantities. If other measuring device(s) are proposed, prior to installation, approval shall be obtained in writing from the Water Use Permit Bureau Chief.
2. The Licensee shall report non-use on all metered standby withdrawal facilities on the scanning form or approved alternative reporting method.
3. If a metered withdrawal facility is not used during any given month, the meter report shall be submitted to the SWFWMD indicating the same meter reading as was submitted the previous month.
4. The flow meter(s) or other approved device(s) shall have and maintain an accuracy within five percent of the actual flow as installed.
5. Meter accuracy testing requirements:
 - A. For newly metered withdrawal points, the flow meter installation shall be designed for inline field access for meter accuracy testing.
 - B. The meter shall be tested for accuracy on-site, as installed according to the Flow Meter Accuracy Test Instructions in this Exhibit A, every five years in the assigned month for the county, beginning from the date of its installation for new meters or from the date of initial issuance of this permit containing the metering condition with an accuracy test requirement for existing meters.
 - C. The testing frequency will be decreased if the Permittee demonstrates to the satisfaction of the District that a longer period of time for testing is warranted.
 - D. The test will be accepted by the District only if performed by a person knowledgeable in the testing equipment used.
 - E. If the actual flow is found to be greater than 5% different from the measured flow, within 30 days, the Permittee shall have the meter re-calibrated, repaired, or replaced, whichever is necessary. Documentation of the test and a certificate of re-calibration, if applicable, shall be submitted within 30 days of each test or re-calibration.
6. 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 where there is at least an upstream length equal to ten (10) times the outside pipe diameter and a downstream length equal to two

(2) times the outside pipe diameter. Where there is not at least a length of ten diameters upstream available, flow straightening vanes shall be used in the upstream line.

7. Broken or malfunctioning meter:

A. If the meter or other flow measuring device malfunctions or breaks, the Permittee shall notify the District within 15 days of discovering the malfunction or breakage.

B. The meter must be replaced with a repaired or new meter, subject to the same specifications given above, within 30 days of the discovery.

C. If the meter is removed from the withdrawal point 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 from the withdrawal. In either event, a fully functioning meter shall not be off the withdrawal point for more than 60 consecutive days.

8. While the meter is not functioning correctly, the Licensee shall keep track of the total amount of time the withdrawal point was used for each month and multiply those minutes times the pump capacity (in gallons per minute) for total gallons. The estimate of the number of gallons used each month during that period shall be submitted on SWFWMD scanning forms and noted as estimated per instructions on the form. If the data is submitted by another approved method, the fact that it is estimated must be indicated. The reason for the necessity to estimate pumpage shall be reported with the estimate.

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

FLOW METER ACCURACY TEST INSTRUCTIONS

1. Accuracy Test Due Dates - The Licensee is to schedule their accuracy test according to the following schedule:

A. For existing metered withdrawal points, add five years to the previous test year, and make the test in the month assigned to your county.

B. For withdrawal points for which metering is added for the first time, the test is to be scheduled five years from the issue year in the month assigned to your county.

C. For proposed withdrawal points, the test date is five years from the completion date of the withdrawal point in the month assigned to your county.

D. For the Licensee's convenience, if there are multiple due-years for meter accuracy testing because of the timing of the installation and/or previous accuracy tests of meters, the Licensee can submit a request in writing to the Water Use Permit Bureau Chief for one specific year to be assigned as the due date year for meter testing. If Licensee has many meters to test it may also request the tests to be grouped into one year or spread out evenly over two to three years.

E. The months for accuracy testing of meters are assigned by county. The Licensee is requested but not required to have their testing done in the month assigned to their county. This is to have sufficient SWFWMD staff available for assistance.

January	Hillsborough
February	Manatee, Pasco
March	Polk (for odd numbered permits)*
April	Polk (for even numbered permits)*
May	Highlands
June	Hardee, Charlotte
July	None or Special Request
August	None or Special Request
September	DeSoto, Sarasota

October	Citrus, Levy, Lake
November	Hernando, Sumter, Marion
December	Pinellas

* The Licensee may request their multiple permits be tested in the same month.

2. Accuracy Test Requirements: The Licensee shall test the accuracy of flow meters on permitted withdrawal points as follows:

A. The equipment water temperature shall be set to 72 degrees Fahrenheit for ground water, and to the measured water temperature for other water sources.

B. A minimum of two separate timed tests shall be performed for each meter. Each timed test shall consist of measuring flow using the test meter and the installed meter for a minimum of four minutes duration. If the two tests do not yield consistent results, additional tests shall be performed for a minimum of eight minutes or longer per test until consistent results are obtained.

C. If the installed meter has a rate of flow, or large multiplier that does not allow for consistent results to be obtained with four- or eight-minute tests, the duration of the test shall be increased as necessary to obtain accurate and consistent results with respect to the type of flow meter installed.

D. The results of two consistent tests shall be averaged, and the result will be considered the test result for the meter being tested. This result shall be expressed as a plus or minus percent (rounded to the nearest one-tenth percent) accuracy of the installed meter relative to the test meter. The percent accuracy indicates the deviation (if any), of the meter being tested from the test meter.

3. Accuracy Test Report: The Licensee shall demonstrate that the results of the meter test(s) are accurate by submitting the following information within 30 days of the test:

A. A completed Flow Meter Accuracy Verification Form, Form LEG-R.014.00 for each flow meter tested. This form can be obtained from the District's website (<http://www.swfwmd.state.fl.us/>) under "Permits and Rules" for Water Use Permits.

B. A printout of data that was input into the test equipment if the test equipment is capable of creating such a printout;

C. A statement attesting that the manufacturer of the test equipment, or an entity approved or authorized by the manufacturer, has trained the operator to use the specific model test equipment used for testing;

D. The date of the test equipment's most recent calibration that demonstrates that it was calibrated within the previous twelve months, and the test lab's National Institute of Standards and Testing (N.I.S.T.) traceability reference number.

E. A diagram showing the precise location on the pipe where the testing equipment was mounted shall be supplied with the form. This diagram shall also show the pump, installed meter, the configuration (with all valves, tees, elbows, and any other possible flow disturbing devices) that exists between the pump and the test location clearly noted with measurements. If flow straightening vanes are utilized, their location(s) shall also be included in the diagram.

F. A picture of the test location, including the pump, installed flow meter, and the measuring device, or for sites where the picture does not include all of the items listed above, a picture of the test site with a notation of distances to these items.

WATER QUALITY INSTRUCTIONS

The Licensee shall perform water quality sampling, analysis and reporting as follows:

1. The sampling method(s) from both monitor wells and surface water bodies shall be designed to collect water samples that are chemically representative of the zone of the aquifer or the depth or area of the water body.

2. Water quality samples from monitor wells shall be taken after pumping the well for the minimum

time specified (if specified) or after the water reaches a constant temperature, pH, and conductivity.

3. The first submittal to the SWFWMD shall include a copy of the laboratory's analytical and chain of custody procedures. If the laboratory used by the Licensee is changed, the first submittal of data analyzed at the new laboratory shall include a copy of the laboratory's analytical and chain of custody procedures.

4. Any variance in sampling and/or analytical methods shall have prior approval of the SWFWMD Water Use Permit Bureau Chief.

5. The Licensee's sampling procedure shall follow the handling and chain of custody procedures designated by the certified laboratory which will undertake the analysis.

6. 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."

7. 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).

8. Unless other reporting arrangements have been approved by the SWFWMD Water Use Permit Bureau Chief, reports of the analyses shall be submitted to the SWFWMD Water Use Permit Bureau, online at the SWFWMD WUP Portal or mailed in hardcopy on or before the tenth day of the following month. The online submittal shall include a scanned upload of the original laboratory report. The hardcopy submittal shall be a copy of the laboratory's analysis form. If for some reason, a sample cannot be taken when required, the Permittee shall indicate so and give the reason in the space for comments at the WUP Portal or shall submit the reason in writing on the regular due date.

9. Water quality samples shall be collected based on the following timetable for the frequency listed in the special condition:

10. The parameters and frequency of sampling and analysis may be modified by the SWFWMD as necessary to ensure the protection of the resource.

Frequency Timetable

Weekly Same Day of each week Monthly Same week of each month

Quarterly Same week of February, May, August, November

Semi-annually Same week of May, November

Attachment K

Mitigation Plan—Attachment K

History and Project Description

Duke Energy Florida (DEF) filed its site certification application for the proposed construction and operation of new electrical generating facilities and associated facilities in Citrus County, Florida, on August 1, 2014. The electrical generating facilities will be located on an approximately 400-acre Site adjacent to the eastern boundary of DEF's existing Crystal River Energy Complex. The Project includes two natural gas-fired combined cycle units and several on- and off-Site associated linear facilities, including 230- and 500-kilovolt (kV) electrical transmission lines and several water pipelines. The off-Site portions of these linear facilities will be located within a corridor wholly contained within DEF-owned CREC property.

This mitigation plan applies only to the Citrus Combined Cycle Project. Any future activities at CREC or on the CCC Site, outside of those certified as proposed in the CCC site certification application, will require modification of this plan. Changes or modifications to the plan will be tracked by the table in Item 2 below.

DEF shall comply with the following conditions prior to commencement of any construction activities:

1. Submittals required herein shall include the Licensee's name and Siting Certification Tracking Number PA77-09A3 and SWD tracking number, and shall be directed by e-mail to SW_ERP@dep.state.fl.us with a subject line of permitting/compliance PA No. 77-09A3/SWD tracking number, or by mail to:

Department of Environmental Protection
Southwest District
Submerged Lands and Environmental Resource Program
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

2. Wetland Impacts and Mitigation

Project Phase	Date	Siting Office #	SWD Tracking #	Wetland Impacts	Mitigation
Initial Construction	9/2015	PA77-09A3	09-270612-030	3.84 acres of permanent forested and non-forested wetland impacts 7.78 acres of permanent conversion of forested wetland to non-forested wetlands 11.02 acres of temporary impacts of non-forested wetlands	Purchase 3.388 forested credits and 0.325 herbaceous credits from the Upper Coastal Wetland Mitigation Bank or Old Florida Mitigation Bank. Prior to any construction or impacts authorized by the certification, DEF shall provide the Department with documentation that the credits have been

					deducted from the credit ledger(s) of the Upper Coastal Wetland Mitigation Bank, SWFWMD ERP No. 43031543.001 or Old Florida Mitigation Bank, SWFWMD ERP No. 4341425.001

DEF shall comply with the following prior to construction of the Citrus Combined Cycle associated linear facilities within the linear facilities corridor:

3. No later than 180 days prior to construction of associated linear facilities within the linear facilities corridor, DEF shall provide to FDEP SCO and the SWD:
 - a. Detailed construction drawings depicting the location of each typical pipeline trench cross-section, pipe elevations, and existing grade elevations; and
 - b. Detailed construction drawings depicting the location and impact footprint of any new transmission line support structures that were not provided in the site certification application or during the site certification hearing. If these drawings include fill or substantial structure impacts, DEF shall provide updated wetland impact drawing and UMAM tables and score sheets prior to beginning construction of the new transmission line support structures.

DEF shall comply with conditions 4 and 5 prior to commercial operation of the Citrus Combined Cycle Project:

4. All areas identified by the Applicant in the SCA as "temporary" wetland impact areas shall be restored to pre-construction site conditions, including contours and elevations, within 15 days of completion of construction. For trench construction in wetland areas, DEF shall segregate and return the upper 12-inches of wetland topsoil to the top of the trench during backfilling.
5. A "Time Zero" Wetland Monitoring Report shall be submitted within 45 days of completion of the re-grading activities within the temporary wetland impact areas and shall include the following:
 - a. Date the re-grading was completed;
 - b. Color photographs to provide an accurate representation of each re-graded area. The photographs shall be taken from fixed reference points and directions which are shown on a scaled plan-view.

Time Zero Wetland Monitoring Reports may be submitted separately for individual facilities or segments of linear facilities.

DEF shall comply with the following conditions post-construction:

6. Subsequent Wetland Monitoring Reports shall be submitted to the District office semiannually for the first year and annually thereafter until the success criteria outlined in Condition No. 7 are achieved. If separate Time Zero Monitoring Reports are submitted for individual facilities or segments of linear facilities, the subsequent semiannual Restoration Reports shall consolidate those facilities into one semiannual Restoration Report.

The Restoration Monitoring Reports shall include the following for each restoration area:

- a. Color photographs taken from the reference points established in the Time Zero Monitoring Report.
- b. Plant species composition with estimates of the contribution of each species to percent cover.
- c. Total contribution to percent cover by non-native wetland species and species not listed in 62-340, F.A.C.

7. The restoration of temporarily impacted areas shall be deemed successful when the following criterion has been continuously met for a period of six months, without intervention in the form of irrigation, removal of undesirable vegetation, or replanting of desirable vegetation:

- a. Native wetland species have achieved a minimum of 80% coverage.

8. DEF shall meet the restoration success criteria as defined in Condition No. 7. The responsibility to assess if the restoration areas are meeting the success criteria shall not fall solely on the Department. In the event DEF becomes aware the restoration areas are not meeting the success criteria (based on either site observations or review of monitoring reports) after two years of monitoring, DEF shall be responsible to submit an alternative restoration plan to the Department for review and approval.