

PMTurkeyCOLPEm Resource

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Sent: Monday, May 23, 2011 3:13 PM
To: Kugler, Andrew; Michael.masnic@nrc.gov
Subject: Miami-Dade Completeness QuestionsUnits6 & 7
Attachments: MDC's 5th Statement re Power Plant Completeness.pdf

Importance: High

(See attached file: MDC's 5th Statement re Power Plant Completeness.pdf)

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**STATE OF FLORIDA
DIVISION OF ADMINISTRATIVE HEARINGS**

**IN RE: FLORIDA POWER AND LIGHT
COMPANY
TURKEY POINT UNITS 6 & 7
POWER PLANT SITING APP. PA03-45A3**

**DOAH Case No. 09-3575-EPP
DEP OGC Case No. 09-3107**

**MIAMI-DADE COUNTY'S FIFTH STATEMENT
REGARDING COMPLETENESS OF THE PLANT
(NON-TRANSMISSION LINE PORTIONS) OF THE APPLICATION**

Pursuant to section 403.5066 (1)(a), Florida Statutes, Miami-Dade County submits this fifth statement regarding completeness of the plant and non-transmission line portions of the application in this matter¹. Based on analyses by the Miami-Dade County Department of Planning and Zoning (DPZ), the Miami-Dade County Department of Environmental Resources Management (DERM), and the Miami-Dade County Water and Sewer Department (WASD), Miami-Dade County recommends that the application be found incomplete because it fails to provide information needed to enable the County to determine whether the proposed project is consistent with all applicable local ordinances, regulations, standards and criteria, including local environmental regulations, as required by section 403.507, Florida Statutes. The fifth completeness comments are attached in narrative format entitled "Miami-Dade County Fifth Completeness Comments for Plant and Non-Transmission Line Portions of the FPL Site Certification Application – Turkey Point Units 6 & 7, and dated May 16, 2011.

¹ The Department of Environmental Protection (DEP) found the plant site and non-transmission portion of the application incomplete in its entirety on August 6, 2009. Through four subsequent reviews the Department of Environmental Protection (DEP) has continued to find the application incomplete as to the plant site, and non-transmission line portion of the application. On February 28, 2011, FPL submitted additional information in response to agency recommendations and DEPs determination that the application remained incomplete. This is Miami-Dade County's recommendation upon review of the information FPL submitted on February 28, 2011.

**TURKEY POINT UNITS 6 & 7
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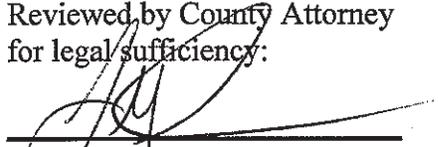
RESPECTFULLY SUBMITTED

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Reviewed by County Attorney
for legal sufficiency:



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**TURKEY POINT UNITS 6 & 7
POWER PLANT SITING APP. PA03-45A3
DOAH Case No. 09-3575-EPP
DEP OGC Case No. 09-3107**

CERTIFICATE OF SERVICE

I HEREBY CERTIFY that a true and correct copy of the foregoing has been furnished by _____ U.S. mail _____ facsimile XX electronic mail **ONLY** this 16th day of May, 2011, to:

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**TURKEY POINT UNITS 6 & 7
POWER PLANT SITING APP. PA03-45A3
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Completeness Comments

SECTION A – PLANT SITE FOR UNITS 6 & 7 INCLUDING BARGE AREA

MDC-A-1 – Previously determined complete

MDC-A-2 – Previously determined complete

MDC-A-3 (Fifth Round)

This item remains incomplete. The applicant has still not provided information previously requested in order for the County to determine whether the proposed project meets the requirements of the Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. Pursuant to condition 15 of Z-56-07, FPL is required to develop a proposed study to be reviewed by DERM for compliance with Chapter 24 of the Miami-Dade County Code. Additionally, pursuant to condition 5 of I-56-07, data must be based upon groundwater modeling that uses a methodology approved by WASD in consultation with DEP, SFWMD and DERM. Miami-Dade County reiterates from meetings and past completeness responses that the model proposed by FPL has not been approved by WASD. It is not adequate and the APT is not an acceptable hydrologic study under Chapter 24. FPL's statement that, "The APT is one element of the hydrologic study" and "...the APT together with the modeling does address those impacts," is not in compliance with Condition 15. FPL still must provide all of the requested information and clarify the statements in the latest response relating to the use of isotopes for delineation of water types such as the industrial wastewater plume emanating from the cooling canals. If FPL has identified a more useful isotope for this purpose, please provide the information including delineation of water sources based on this isotope and associated information demonstrating that such isotope data will provide the conclusive information requested in this regard. An identification and delineation of water types based on isotopes (or some other method agreed to by the Agencies) shall be provided.

MDC-A-4 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-A-6, 5-MDC-A-7, and 5-MDC-A-8 (Fifth Round)

This item remains incomplete. Based on the information provided in the *Technical Memorandum: Florida Power & Light, Turkey Point Plant: On-Site Sanitary Wastewater Treatment Plant – Rev. 1*, FPL must clarify its statement relating to phase out of septic tanks at the land utilization facility. FPL must confirm that the statement refers to both the Land Use Building and the Land Use Shop as depicted in Figure 1 and therefore the only two facilities that are not proposed to be connected to the proposed wastewater treatment plant are the Day Care facility and the McGregor cottage.

Miami-Dade County acknowledges that a hydrologic study is not required under Condition 6 of Z-56-07. The reference to a hydrologic study under this condition was in error; the intended reference was to the wastewater discharge plan required by this condition. This discharge plan must be consistent with Chapter 24 and it must, at a minimum, address the type and quality of the discharge and shall also justify potential variances from Chapter 24, if necessary. The wastewater discharge plan must also demonstrate that the proposed location for disposal of the wastewater is appropriate. Given FPL's proposal to utilize deep wells, the geologic

appropriateness of this disposal technique must be demonstrated including data generated from the ongoing UIC testing including all hydrologic and geologic information required by DEP under applicable state regulations necessary for this demonstration. A complete and detailed wastewater disposal plan that includes this basic information will enable Miami-Dade County to determine whether variances from Chapter 24 are required and whether they are justified as stated in Condition 6.

MDC-A-9 – Previously determined complete

MDC-A-10 – Previously determined complete

MDC-A-11 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-A-12 – Previously determined complete

MDC-A-13 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-6, MDC-A-7, and MDC-A-8.

MDC-A-14 – Previously determined complete

MDC-A-15 – Previously determined complete

MDC-A-16 – Previously determined complete

MDC-A-17 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-18.

MDC-A-18 (Fifth Round)

This item remains incomplete. Miami-Dade County acknowledges the data and additional information provided in response to this item and considers these data and information satisfactory as related to the proposed Reclaimed Water Treatment Facility site, the proposed Units 6 & 7 Plant site, and the Clear Sky Substation and its Parking area. However, this item remains incomplete because similar information is lacking for the proposed Nuclear Administration Building, Training Building, and east and west site Parking Areas. Specifically, FPL must provide the conceptual drawings with the hydrological sub-basins and drainage system and water release to the industrial wastewater facility. These drawings and calculations should provide the same level of detail as the drawings presented for the Units 6 & 7 plant area, Clear Sky Substation, and its Parking lot in FPL's 4th completeness submittal.

MDC-A-19 – Previously determined complete

MDC-A-20-1 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-18.

MDC-A-20-2 and 5-MDC-A-21 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-C- 2, 3, 4, 5, 8, 9, 10, 11, 12, 14, 15, 16, 17, 19, 22 and 23.

MDC-A-22 – Previously determined complete

MDC-A-23 (Fifth Round)

This item remains incomplete. FPL must provide information previously requested to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. FPL, in its responses to this question over several rounds of completeness, has not provided the requested information, but has instead substituted opportunistic observations, short term surveys for limited wildlife guilds, and has referenced data that were collected decades ago, while onsite observations indicate that conditions may have substantially changed over time.

Miami-Dade County has previously questioned FPL's characterization of the proposed plant site as "**sparsely-vegetated hypersaline mud flats**" which "**provide limited habitat for aquatic biota due to fluctuations in water levels and salinity associated with the cooling canal system**" (Units 6 & 7 SCA), based on staff observations over a small number of visits that indicated the site is apparently more variable, can be substantially more vegetated, and potentially supports more wildlife than described. In addition, Miami-Dade County staff has observed utilization of the site by species protected by the State of Florida. Miami-Dade County therefore reiterates its request for a current, comprehensive, systematic characterization of both flora and fauna that occur within the proposed plant site boundary in advance of the certification decision in order to determine the local and regional ecological role of this unusual habitat, and especially whether the site provides critical habitat to threatened or endangered wildlife species. This characterization must take into account the fluctuating water levels on the site.

Please see also MDC's response to MDC-A-26-2 Fifth Round.

MDC-A-24 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review of seagrass impacts and mitigation. Please see items 5-MDC-G-20 and 5-MDC-G-21 for outstanding issues related to the overall mitigation plan.

MDC-A-25 (Fifth Round)

This item remains incomplete. Miami-Dade County acknowledges FPL's commitment to construct in accordance with applicable guidelines to minimize impacts to shorebirds and other wildlife during construction; however, the County reiterates that FPL must provide mitigation specific for the loss of this shorebird habitat. This should be a component of the overall mitigation plan. The continuing efforts to modify and refine the proposed mitigation are also acknowledged. Please provide the complete and detailed mitigation plan for review.

MDC-A-26-1 (Fifth Round)

This item remains incomplete. An earthwork and materials disposal plan is required by Condition 7 of Miami-Dade County's zoning approval Z-56-07. FPL has not provided the required plan to Miami-Dade County. The County reiterates that FPL must provide the subject plan in order to enable the County to complete its review and evaluation as part of the application completeness process. This plan shall include, at a minimum, an outline of the various types of earthwork, proposed methods and parameters for characterization of disposal materials consistent with MDC soil reuse guidelines and Chapter 24, Miami-Dade County Code, all proposed on-site and off-site disposal sites, and a relative schedule for providing analysis results as part of a post certification submittal.

MDC-A-26-2 (Fifth Round)

This item remains incomplete. FPL has again failed to provide information previously requested to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. The information provided in FPL's Turkey Point Threatened and Endangered Species Evaluation and Management Plan, submitted as part of the SCA (Appendix 10.7.1.3), along with subsequent responses during this and previous rounds of completeness, is not sufficient to enable Miami-Dade County to determine whether the proposed project meets the requirements of Condition 2 of MDC Zoning Resolution Z-56-07, Chapter 24 of the Miami-Dade Code, and the Miami-Dade County CDMP. FPL has failed to provide adequate comprehensive, current, and location-specific information on how development of the proposed plant site and associated non-transmission facilities and infrastructure would impact local ecology.

FPL has failed to provide sufficient comprehensive, location-specific surveys to enable the County to verify its assertion that, "The Project will not jeopardize the continued existence of any local or regional populations of state or federally-listed or non-listed species of plants or animals. The number of protected species occurring in the vicinity of the Site and associated non-transmission facilities will not be reduced as a result of the construction and operation of the Project." Miami-Dade County has been clear about the need for comprehensive, systematic, location-specific studies on occurrence and utilization of the proposed plant site and proposed locations for ancillary linear and non-linear facilities by both flora and fauna, including threatened and endangered species. The information must be provided prior to certification to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code and the CDMP in order to prepare the reports required by 403.507 F.S. Miami-Dade County must evaluate the effect of development of the proposed plant site and associated non-transmission facilities and infrastructure on all aspects of the local ecology, including but not limited to threatened or endangered species and their habitats. Miami-Dade County must also evaluate the sufficiency of FPL's efforts to avoid and minimize impacts to local ecology, and especially to habitat critical to threatened and endangered species. FPL's previous responses to this question have included information from opportunistic observations, including information collected by Miami-Dade County staff during a single day's visit to the proposed plant site, short-term sampling that does not account for seasonal or environmentally triggered patterns in occurrence or utilization, and publicly available information for the surrounding region that does not specifically target the locations for the proposed plant site. The field data from one cited source, the Florida Breeding Bird Atlas (FFWCC 2003), for example, was rigorously collected, but is over 20 years old with no indication that any of the data were collected at the existing Turkey Point facility. The Florida Breeding Bird Atlas reports no breeding activity of any kind in the USGS Homestead quad, which includes most of the area where the proposed construction access roads will be located. Miami-Dade County staff, however, observed a wading bird rookery in this quad in September 2005.

FPL stated in their response that "least terns have been documented feeding at the proposed Units 6 & 7 Site; however there is no documentation that least terns have nested within the boundaries of the proposed Site." Miami-Dade County staff observed posted signs cautioning least tern nesting within the boundary of the overall proposed plant complex, in an area that may be developed for access road construction. FPL must provide maps showing the locations

of all least tern nesting that have been observed within the overall boundaries for the Plant site and any ancillary linear and non-linear facilities, including but not limited to the locations where there is posted signage.

FPL's assertion that there is "no documentation that least terns have nested within the boundaries of the proposed Site " is an example of why Miami-Dade County is requesting comprehensive flora and fauna occurrence and utilization information. The limited and non-targeted studies that FPL cited are insufficient to support the conclusion that no nesting occurs. Miami-Dade County wishes to clarify that the request for comprehensive, current, and location-specific wildlife and vegetation information is not just for the proposed plant site, but for all locations where plant and associated ancillary facilities, including linear and non-linear facilities, are proposed for construction and operation.

MDC-A-27 (Fifth Round)

Please refer to MDC's Fifth Round response to item MDC-A-26-1.

MDC-A-28 – Previously determined complete

MDC-A-29 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-26-2.

MDC-A-30 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-23 and MDC-A-26-2.

MDC-A-31 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-A-32 - Previously determined complete

MDC-A-33 – Previously determined complete

SECTION B – WASTEWATER REUSE

MDC-B-1 – Previously determined complete

MDC-B-2 (Fifth Round)

This item remains incomplete and information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. FPL states in its latest response to this item that the installation of the reclaimed water pipeline requires a 75 foot wide temporary construction area and that the SW 107 Avenue ROW is insufficient in width because it is approximately 50 feet wide. FPL must clarify the currently proposed location of the pipeline within the FPL transmission line ROW in relation to the recently installed FGT gas line and describe whether the required 75 foot wide temporary construction area is available without having to use land not owned by FPL outside the existing 330 foot wide transmission corridor during construction.

Miami-Dade County acknowledges FPL's commitment in its latest response to design and construct the reclaimed water pipeline to maintain existing sheet flow throughout its final right-of-way; however, FPL has not provided the requested information specific to improvements to sheet flow that FPL will construct and Miami-Dade County reiterates its request for this specific information.

With regard to FPL's identification of another potential site for the reclaimed water treatment facility, FPL must provide all details and information on this potential site from past surveys and assessments including information on usage by crocodiles and any other listed species and provide copies of any covenants, conservation easements, or other documents that may relate to protection of any portion of this land as a result of past regulatory decisions. Please also see response MDC-G-12.

MDC-B-3 (Fifth Round)

Complete with respect to information requests for atmospheric deposition from the proposed cooling towers. Miami-Dade County has determined that the information provided is sufficient for review. All outstanding information requests related to the proposed reclaimed water treatment facility, including the requirement for an Unusual Use approval and siting requirements, are addressed in MDC-B-2 and MDC-G-12 for response.

MDC-B-4 – Previously determined complete

SECTION C- RADIAL WELLS

MDC-C-1 (Fifth Round)

This item remains incomplete. FPL must clarify the following statement: "approximately 97.8 percent will originate from boundaries representing Biscayne Bay, approximately 1.9 percent will originate from boundaries representing the cooling canal system and approximately 0.3 percent will be from boundaries representing precipitation onshore." For the percentage originating from the boundaries of Biscayne Bay, does this mean that this 97.8 percent would come from the groundwater under the bay, from the surface water of the bay, or a combination of both? For the percentage originating from the boundaries of the cooling canal system, does this mean that this 1.9 percent would come from the cooling canal system (CCS) plume that is emanating from the CCS, or the surface waters of the CCS? Please also provide a graphic or map that shows the spatial extent of the boundaries for the "precipitation onshore" category. With regard to FPL's response on the requested information for tritium and other isotopes, FPL must clarify how the "other isotopes" provided in the APT report differentiate the various sources of water and whether this isotopic differentiation was used to determine the recharge sources or confirm the model results. FPL must explain how the MDC comments and suggestions were incorporated into the APT, and explain the rationale for any suggestions that were not incorporated. For operation of the radial collectors, please show in a graphic or map the maximum extent of horizontal flows simulated in the model at the point steady state is achieved for each layer and confirm whether this horizontal extent remains constant after that time or continues to expand. Also please clarify the following statements: "FPL decided to use other isotopes during the pump test to address this question. The results of the isotope analysis were provided in the APT report (HDR, 2009)." FPL must explain what conclusions were drawn from these data to address this question. In particular, FPL must explain which isotopes were found

to be suitable for differentiation of water sources and provide all related information including the proportion of each water source captured during the APT as indicated by the isotope data.

MDC-C- 2, 3, 4, 5, 8, 9, 10, 11, 12, 14, 15, 16, 17, 19, 22 and 23 (Fifth Round)

This item remains incomplete. Despite the additional information provided by FPL on the existing model in its 4th completeness response, the County reiterates that this model is not appropriate to fully evaluate the proposed project's impact on water resources, including water quality and quantity and ecology. The modeling effort is not sufficient to accurately simulate the existing or proposed condition because it does not include a water quality or density component. The hydrologic data and information as well as any information generated from modeling should be sufficient to enable Miami-Dade County to evaluate the following: 1) surface and groundwater impacts including quality, quantity, timing and distribution, 2) ecological impacts, 3) water table elevation within the adjacent areas of the Model Land Basin, 4) contaminant concentrations from the CCS including from combined operations of all existing and proposed power units, and 5) Influences on salt front dynamics under different scenarios (baseline and post-construction conditions with all proposed operations, for a wet, dry, and average year), and 6) the information shall also be sufficient to support development of an appropriate surface/groundwater modeling effort with methodology approved by Miami-Dade County as required pursuant to condition 5 of Z-56-07. Please provide the following information:

- What are the cumulative impacts on water resources, including withdrawal of all water from the combined operation of the existing cooling canal system (CCS) intake and simultaneous operation of the radial collector wellfield (RCW) including the influences of the Uprate Project (and associated additional evaporation from the CCS), and salt deposition from operation of the Units 6 & 7 cooling towers when the RCW is in use?
- How does operation of the radial collector wellfield affect the fate of surface and ground water as it moves southeasterly towards the Turkey Point area and interacts with the hypersaline plume from the cooling canal system? Please provide water quality data and maps to support all assertions.
- Please provide projected water quality of the CCS for the first five years after the Units 6 & 7 project becomes operational including chlorides, sulfate, sodium, specific conductivity and total dissolved solids. This projection shall take into account all planned inputs and changes to water quality within the CCS including the additional salt loading from evaporation increases caused by the Uprate Project as well as the atmospheric deposition of salt into the CCS from operation of the proposed radial collector wellfield and cooling towers.
- A comprehensive water budget as well as a salt budget is needed to perform the required cumulative impacts analysis under Chapter 24 of the Miami-Dade County Code for both the "with project" and "without project" scenarios. These budgets must include analysis of the additional water consumption and salt effects of the Uprate project, since it is scheduled to be on-line before Units 6 and 7 would become operational. Please describe, characterize and quantify the source(s) of the groundwater currently being drawn into the CCS (from operation of the CCS intake pumps). What is the total daily or weekly volume drawn in, what portion remains in the CCS, and what is the fate of the remainder? What changes to these proportions will occur when both the CCS pumps and the RCW are operating simultaneously taking into account the interactions of these

pumps and simultaneous operation of the radial collector wells (which would withdraw water from a nearby location within the same aquifer).

- Please provide complete and detailed information on the Interaction between ground and surface waters, including recharge and exchange, in the areas around the facility including portions landward of the bay and in the areas surrounding the proposed radial collector wellfield location. Please provide data and maps to support all assertions.
- Please provide a delineation of the existing industrial wastewater plume that emanates from the CCS and include the distance between the plume and the proposed wellfield in plan view and with cross sections. Quantify how much of this plume would be drawn into the radial collector wellfield and describe how the shape and location of the plume would change. Also, please provide information sufficient to determine if the quality of the groundwater would change during operation of the radial collector wellfield (RCW) as a result of any saline portions or hypersaline portions of the plume being drawn into it? Please provide information that describes whether any portion of this plume in portions of the aquifer below the proposed RCW would be drawn upward when the RCW is operating. Since the Uprate project is scheduled to be completed and operational prior to Units 6 & 7, the plume characteristics resulting from the Uprate project shall be included in the assessment of plume response to the Unit 6 & 7 Project including but not limited to the extent to which the plume would be affected by operation of the proposed radial collector wells. Will any of the plume be intercepted by the groundwater withdrawals from this wellfield? Will plume dynamics be impacted by groundwater withdrawals? Is the plume affecting the Model Lands, the Florida Keys National Marine Sanctuary, Biscayne National Park or the Biscayne Bay or Card Sound Aquatic Preserve? As the plume grows in spatial extent will assumed water quality characteristics in the area of the aquifer targeted by the radial collectors change? Information and data are needed not only for the direct impacts in any areas of plume discharge to ground waters but also indirect impacts such as whether the plume has replaced or contaminated lower salinity (natural) water on which the ecosystem depends. Information on the spatial extent of chloride and sodium contamination is therefore required for the evaluation including how the plume will be affected by the operation of the radial collector wellfield.
- Please fully describe and characterize all changes to surface water quality and/or quantity that will result from operation of the RCW in all areas landward of the shoreline. This shall include a description of all existing gradients and flow directions in the area of Turkey Point and a description of all gradient changes that will result from operation of the RCW. Site specific gradient information and direction(s) of groundwater flow in the area of the facility including the cooling canal system are also needed. Any changes in distribution of groundwater flow to surface waters that would result from operation of the radial collectors shall also be identified including a detailed discussion of the changes in directions and gradients when each of the systems (the existing pumps for units 1, 2, 3 and 4 as well as the RCW) are operating without the other and when operating simultaneously. Since flow pathways are density dependent in this area and gradients are complex and change rapidly due to plant operations, the modeling effort is not sufficient to determine the existing or proposed condition since it does not include a water quality or density component. Site specific gradient information and directions(s)

of surface water and groundwater flow in the area of the existing and proposed facilities including the cooling canal system must be detailed and comprehensive.

- Please provide additional information and supporting data to evaluate Impacts to the Biscayne Aquifer including changes to ground water quality and/or quantity impacts to salt intrusion – a determination of salt intrusion attributable to natural causes and determination of salt intrusion due to existing operations to establish current conditions as well as impacts to surface and groundwater salinity changes in the area from proposed operations including cumulative impacts is needed. Please also provide information and supporting data sufficient to determine whether the volumes and stages of freshwater in the areas west and north of the cooling canals are still adequate to prevent migration of high chloride water emanating from the CCS. If they are not, please also provide the required stages and volumes of additional water needed to prevent further migration landward within the Biscayne Aquifer from Turkey Point operations including the cumulative effects of all existing and proposed operations including the additional salt loading projected from the Uprate Project due to increased evaporation and the additional salt loading from the proposed cooling towers when the RCW is operating.
- Please provide a volumetric and spatial determination for each source of water that would recharge the area of the Biscayne Aquifer when the radial collector well field is operational and identification of each recharge source and water quality characterization of each source. The extent of the groundwater flux must be determined given the placement of the caissons associated with the radial collector well system at the depth of a high transmissivity zone within the Biscayne Aquifer.
- How will the benthic communities in these nearby areas be impacted by intermittent or extended draw-through of surface water into the substrate during operation of the radial collectors? Please provide a characterization of current substrate (pore) water quality as well as a comparison to the projected water quality in the pore waters as surface water is drawn into the substrate during operation of the well field in order to evaluate the resultant changes during operation of the radial collectors. Any seasonal variations shall be included.
- Please provide a comprehensive water budget to include a determination of total water consumption from ground and surface waters in the area around Turkey Point as a result of current permitted operations including the Uprate Project as well as a cumulative determination of total water consumption at Turkey Point as a result of all combined operations including existing and proposed - this should include all evaporative losses as well as the rainfall volumes that will be lost to the area as a result of the reservoir as well as the open process tanks at the water treatment facility and other similar losses such as the current injection of wastewater into the Biscayne Aquifer that would be eliminated if the project is approved. A determination of the source(s) and quantities of the water consumed in the “with project” and “without project” scenarios in comparison with the amount of water projected to be delivered to the wetlands in the Turkey Point Model Lands area as a result of the CERP BBCW project is also needed as a component of this evaluation to determine consistency with the goals and objectives of the CERP BBCW project. A determination of: 1) the current volume of water being drawn into the CCS from under Biscayne Bay via operation of the CCS intake pumps, 2) the source(s)

of this water including volumetric determination of each source, and 3) the cumulative volume (and sources) during operation of both systems (CCS pumps and radial collector wellfield) is needed as a component of the requested information and data.

MDC-C-6 (Fifth Round)

This item remains incomplete. Further information and clarifications are needed based on FPL's response with regard to wetlands impacts and water losses (changes to water quality, quantity, stage and/or wetland hydroperiod). FPL states in response C-6 the following: "*The reduction of this fresher water lens by operation of the radial collector wells will have no adverse environmental impacts on the surrounding Bay. If the radial collector wells are operated for 1 to 2 weeks, the pumping will remove most of the fresher water lens below the peninsula. The removal of this fresher water lens will have no adverse environmental impact on the surrounding Bay. Over time, when the radial collector wells are not operating, rainfall infiltration will recharge the aquifer below the peninsula and this fresher water lens will be re-established.*" What is the spatial extent of the water that would be removed by this pumping below the peninsula? If most of the fresher water lens would be removed by pumping, please explain and provide data to document why the water stage in these wetlands or the water quality in or over the lens will not be impacted at least in the area of the peninsula if not further. Would this impact hydroperiod within the wetlands, at least in some areas? In addition, information is needed to verify the stated claim that "*The removal of this fresher water lens will have no adverse environmental impact on the surrounding Bay*". Is this lens that FPL has identified a part of the lens that exists under the coast all along the mangrove fringe of Biscayne Bay? If so, isn't this the source of the fresher groundwater inputs into Biscayne Bay?

Please also clarify these statements given the relatively thin lens of fresher water and therefore the relatively small volume of this water likely to be within the relatively small area of the peninsula. Given that most of the water is projected (based on the FPL modeling) to infiltrate the RCW from above via vertical or near vertical flow paths, why would so little of this water be removed from under the peninsula in comparison to the water removed from the adjacent areas of Biscayne Bay? With regard to FPL's statements relating to recharge of the groundwater under the land when the radial collector wells stop operating: wouldn't this area be "recharged" by salt water from the bay during the dry season when there is no rain (in the absence of rainfall infiltration) and if so, wouldn't the water that reestablishes be saltier, not a "fresher water lens" in and under the wetlands in this area? Clarification of these statements and supporting data are needed.

MDC-C-7 (Fifth Round)

This item remains incomplete. Information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. Miami-Dade County reiterates its requests for delineations of the industrial wastewater plume emanating from the CCS, including delineation of the heat plume and underground directional travel of this heated water which has not been provided. The extent to which this plume would be affected by the proposed groundwater withdrawals from the radial collector wellfield is not documented. In addition, no direct information or data has been provided to evaluate potential effects of inducing groundwater flow from the plume towards the proposed RCW. The applicant needs to provide information as required under condition 15 of Z-56-07, that shall include but not be limited to delineation of the existing plume that emanates from the CCS. The existing heat plume must

also be delineated to determine whether warmer (or saltier) water would be induced into the RCW. Please also see response MDC-A-3 with regard to delineation.

MDC-C-13 (Fifth Round)

This item remains incomplete and information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. Contrary to FPL's assertion in its latest response to C-13 that the contents of the SCA and subsequent completeness submittals meet the intent of condition 4 of Z-56-07. Condition 4 of Resolution Z-56-07 provides that FPL shall "not apply for any water withdrawals from the Biscayne Aquifer as a source of cooling water for the proposed facilities". FPL did not appeal the County Commission's resolution. However, pursuant to the application subsequently filed by FPL, the proposed project would withdraw water from this aquifer for cooling water purposes when the proposed radial collector wellfield is in operation. In addition, the information and submittals are also inconsistent with condition 5 of the aforementioned resolution because FPL has elected to use a model that has not been approved by Miami-Dade County. Miami-Dade County acknowledges the improvements to the model as submitted in FPL's latest response. However, this model remains inadequate. Please provide all requested information.

MDC-C-18 (Fifth Round)

This item remains incomplete. Miami-Dade County wishes to clarify that it does not purport to regulate the consumptive use of water withdrawals regulated by the SFWMD or the Health Department. With regard to consumptive use permitting, please confirm whether a consumptive use permit will be required from the SFWMD based on the water quality in this area of the Biscayne Aquifer. Also for purposes of clarification, the well construction standards apply to both domestic and nondomestic wells. Please provide the requested information.

MDC-C-20 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-C-21 – Previously determined complete

MDC-C-24 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

SECTION D - ACCESS ROADS

MDC-D-1(a) (Fifth Round)

This item remains incomplete and information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S.

Miami-Dade County acknowledges the information provided by FPL referencing locations in the SCA and subsequent Completeness Responses where vegetation and expected wildlife

information may be found, however, this information is incomplete because it does not include the requested location-specific evaluation of occurrence and utilization of the area by plants and wildlife, including information on where the proposed access roads cross wildlife corridors. Miami-Dade County has been clear about the need for comprehensive, systematic surveys to determine occurrence and utilization of the proposed access road corridor by both flora and fauna, including threatened and endangered species, in part to verify FPL's assertions on the effects of the project on plants and wildlife. Miami-Dade County must be able to evaluate the effect of development of the proposed access roads on all aspects of the local ecology, including but not limited to threatened or endangered species and their habitats.

FPL states in its response that, "FPL will comply with the applicable FWC, DACS, and USFWS regulations regarding avoidance, minimization, and mitigation of impacts to state and federally-listed species, including plants." FPL has not yet provided sufficient specific information on how design, construction, and operation of the temporary access roads will comply with Miami-Dade County's ordinances (including but not limited to Section 24-48.4 of the Miami-Dade County Code), CDMP (including but not limited to Objectives CON-7 and CON-9 and associated policies), and zoning conditions (including but not limited to Z-56-07, Condition 11) concerning avoidance, minimization, and mitigation of impacts to plants and wildlife, including state and federally-listed species. Please provide the requested information. The information must be provided in advance of the decision on certification to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code and the CDMP and prepare the reports required by 403.507 F.S.

FPL's responses to this question have included general information on dominant vegetation along the proposed access road corridor, but FPL has provided only limited information on protected plant species within the proposed corridor, and has not provided requested location-specific comprehensive surveys for wildlife occurrence and utilization that would identify where the proposed access roads cross wildlife corridors and enable an evaluation of whether FPL has taken appropriate steps to avoid and minimize impacts to wildlife, including threatened and endangered species. FPL states in its response that "Prior to construction, FPL will conduct pre-clearing listed species surveys within the selected rights-of-way. The surveys will be conducted in consultation with the FWC, USFWS and with MDC. FPL will comply with the applicable FWC, DACS, and USFWS regulations regarding avoidance, minimization, and mitigation of impacts to state and federally-listed species, including plants." These studies are needed in advance of the decision on certification to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code and the CDMP and prepare the reports required by 403.507 F.S. In addition to providing the results of the surveys requested by Miami-Dade County, FPL shall submit the management plan for threatened and endangered species necessary to evaluate the proposed project with requirements of Chapter 24, Miami-Dade County Code, and as required pursuant to Condition 11 of Z-56-07.

FPL mentions a six foot box culvert in its response, and indicates its function in the response to MDC-D-21, but does not indicate its specific location. Please indicate the location of the 6-foot box culvert and provide supporting documentation for how this location was selected.

FPL states in its response that "Brazilian pepper, Australian pine, melaleuca and shoe-button ardisia will be removed and eradicated within an area extending up to 50-ft from the edge of pavement on FPL property adjacent to SW 359th Street, and within the public rights-of-way adjacent to construction access roadway improvements along public roadways". Please provide the rationale for these vegetation control zones.

FPL references the "Turkey Point Units 6 & 7 Draft Exotic Vegetation Management Plan" submitted to MDC on February 25, 2011 pursuant to Resolution Z-56-07. Miami-Dade County staff has reviewed this plan and disapproved it. FPL will be receiving a disapproval letter under separate cover.

FPL states in its response that, "At FPL's expense, all temporary roadway improvements south of SW 344th Street will be patrolled by security personnel when in active use. In addition, FPL will maintain security gates or other appropriate security measures during inactive periods on privately-owned roadway improvements." Please indicate where security gates or other security measures will be located on privately-owned roadway improvements and what schedule of maintenance for these measures will be employed.

Please clarify the meaning of the sentence "Miami-Dade County and other agencies with needed access shall, after providing proper notification to FPL, be granted access to FPL's private roadway." How does FPL define "proper notification"? How will FPL address situations where agency staff need immediate access to the privately-owned roadway improvements (e.g. when addressing in-progress illegal activities or evaluating and taking appropriate action on wildfires)? FPL also states in its response that "Any restrictions in accessing EEL lands by County staff during road construction will be temporary." Please clarify this statement. Does FPL expect situations where County staff will be completely restricted from accessing publicly-owned land via the privately-owned roadway improvements? If so, what is the anticipated source(s) of such situations and how long would each event be likely to last? Could any such situation prevent County staff from accessing publicly-owned land in an emergency?

MDC-D-1(b) (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-1(a).

MDC-D-2 – Previously determined complete

MDC-D-3 – Previously determined complete

MDC-D-4 – Previously determined complete

MDC-D-5 – Previously determined complete

MDC-D-6 – Previously determined complete

MDC-D-7 – Previously determined complete

MDC-D-8 – Previously determined complete

MDC-D-9 & 10 (Fifth Round)

This item remains incomplete. FPL must confirm whether its reference in this response to an Exotic Vegetation Management Plan that will be submitted under separate cover refers to the "Turkey Point Units 6 & 7 Draft Exotic Vegetation Management Plan" that was submitted to MDC on February 25, 2011. If so, please be advised that as stated above in MDC-D-1(a) (Fifth Round), Miami-Dade County staff has reviewed this plan and disapproved it. FPL will be receiving a disapproval letter under separate cover.

MDC-D-11 (Fifth Round)

This item remains incomplete. Miami-Dade County acknowledges receipt of the tree survey requested under this comment; however, no tree survey was submitted for the proposed construction access road corridor segment along SW 328 Street between SW 137 Avenue and SW 117 Avenue. FPL must clarify whether a tree survey was conducted along this corridor and whether any non-exempt trees were observed, including on the banks of the North Canal. No tree survey was submitted for the proposed treated wastewater pipeline corridor. FPL must clarify whether a tree survey was conducted along this corridor and whether any non-exempt trees were observed along the proposed treated wastewater pipeline corridor.

Miami-Dade County notes that the required tree canopy mitigation plan has not yet been submitted. Until the required plan is submitted, this item remains incomplete.

MDC-D-12 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-26-2, MDC-D-1, MDC-D-9 and MDC-D-10, and MDC-D-21.

MDC-D-13 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-1.

MDC-D-14 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-D-1, MDC-D-9, and MDC-D-12.

MDC-D-15 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-24.

MDC-D-16 (Fifth Round)

Please see MDC's Fifth Round response on items MDC-D-1, MDC-D-9, MDC-D-12, MDC-D-14, and MDC-D-15.

MDC-D-17 – Previously determined complete

MDC-D-18 – Previously determined complete

MDC-D-19 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-D-20 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-23 and MDC-A-26-2.

MDC-D-21 (Fifth Round)

This item remains incomplete as requested information has not been submitted. References utilized by FPL as supporting documentation must be provided and submitted through the SCA process to make these data available to all agencies involved in the review process.

FPL states in its response that "Wildlife crossings are typically developed using mortality data and travel corridors of known species." Miami-Dade County concurs with this statement and acknowledges FPL's provision of information regarding wildlife underpasses to accommodate travel corridors for the American crocodile that have been documented east of L-31E; however, FPL has not provided the requested wildlife surveys that would identify what species, including

state or federal threatened and endangered species, are currently utilizing the remainder of the proposed corridor for the temporary construction access roads and where wildlife corridors coincide with or cross the proposed corridor.

FPL states in its response that "FPL will install one six foot high by 24 feet wide box culvert, or similar type of culvert, for wildlife crossing between SW 137th Avenue and SW 117th Avenue". FPL must provide details on how it has selected or will select the location for this box culvert, how it was determined that one box culvert will be sufficient, and what means will be used to direct wildlife to this crossing, especially during the wet season when the bottom of the box culvert would likely be flooded and would be less attractive than the road edge to upland-oriented wildlife such as deer.

FPL states in its response that "The new 20-inch arch culverts placed along the length of the road will provide crossing opportunities for a range of species, from small reptiles and amphibians (e.g. snakes, turtles, frogs), to larger reptiles (e.g. alligators) and medium-sized mammals (e.g. raccoons)". FPL must provide details on what means will be used to discourage cold-blooded wildlife such as snakes and reptiles from basking on the roads and using the roads as a wildlife crossing. FPL must provide details on what means will be used to exclude medium-sized mammals from the roads and direct them to the culvert crossings during the wet season when the bottoms of the culverts would likely be flooded.

FPL must advise whether it will install wildlife protection features other than signage on the portions of the access road that are located south of SW 344 Street and within public rights of way. If so, FPL must describe what features will be installed, indicate where these features will be installed, and describe how the location for these features was determined.

FPL states in its response that "FPL can verify the assertion that there will be no adverse impact to Eastern indigo snakes after the proposed access roads have been constructed and are operational through documentation of avoidance of mortality." Please provide details of how FPL will document mortality, or avoidance thereof, for Eastern indigo snakes and other wildlife species. Please include location(s) and frequency of surveys, along with how the surveys will account for and correct for scavenger activity in the vicinity. Miami-Dade County reiterates that information on wildlife occurrence and utilization, and especially for state or federally threatened or endangered species, is required in advance of the certification decision in order to evaluate consistency with provisions of the Miami-Dade County Code that require avoidance and minimization of impacts. Please provide the requested information.

Miami-Dade County has continued to request information on wildlife occurrence and utilization, including identification of all state and federal threatened and endangered species and their utilization patterns, including whether the proposed temporary construction access roads are coincident with or cross wildlife corridors. This information is needed in advance of the certification decision in order to determine whether the proposed project is consistent with the requirements of Miami-Dade County Code (including requirements to avoid and minimize environmental impacts), zoning regulations, including Resolution Z-56-07, and the CDMP (including provisions for protection of habitat for threatened and endangered species), in order to prepare the reports required by section 403.507 F.S. Please provide the requested information.

MDC-D-22 (Fifth Round)

This item remains incomplete and information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. Miami-Dade County acknowledges FPL's statement relating to coordination with Miami-Dade County and USFWS to address management and preservation of listed species and their critical habitats, and that FPL will provide a revised listed threatened or endangered species management plan. However, this item will be considered incomplete until the required plan has been submitted and is considered sufficient.

Please also see MDC's response to items MDC-A-23, MDC-A-26-2, MDC-D-1(a), MDC-D-1(b), MDC-D-9, MDC-D-12, MDC-D-13, MDC-D-21, and MDC-D-23 Fifth Round.

MDC-D-23 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-22.

MDC-D-24 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-1(a).

MDC-D-25 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-1(a).

MDC-D-26 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-1(a).

MDC-D-27 (Fifth Round)

This item remains incomplete. Figures R9.3.2-1 through R9.3.2-9, referenced in FPL's 4th round completeness do not provide any details about the drainage for the proposed access roads. The only drainage information provided in Figures R9.3.2-3 through R9.3.2-15 is limited to a brief note in the "Typical Section Notes" of the figures. Miami-Dade County acknowledges that more detailed plans and calculations will be available post certification and the County looks forward to working in cooperation with FPL to develop conditions of certification that will ensure that the final access road design will meet all applicable Miami-Dade County standards, including but not limited drainage standards. However, at this time the following minimal information is required:

Figure R9.3.2-3 (SW 359 St. from SW 137 Ave. to SW 117 Ave.)

- Please provide a revised drawing indicating the width of the proposed swale on both sides of the road.
- Please provide a drawing showing a typical plan view and cross section details of the culverts proposed to be installed for the purpose of maintaining sheet-flow across the proposed access road.
- Please clarify why Figure R9.3.2-3 shows a 12-foot striped median and Figure R9.3.2-15 does not show this striped median. Will the segment of the SW 359 Street depicted on this figure include a 12-foot striped median or not? Please provide appropriately revised plans.
- Please provide revised drawings showing the location of any proposed guard rail or fencing.

- In an effort to reduce the impacts of the proposed access road and considering that portions of the proposed access road are proposed to be removed and restored in the future, did FPL review alternative road and drainage designs that reduce the width of the proposed access road? Please provide appropriately revised plans.
- Please provide revised drawings showing the portions of the proposed access road proposed to be removed and restored in the future. Please make sure that these drawings include details of the drainage for the maintenance road that will remain.
- Please explain if the proposed open system treatment by roadside swales is intended to be constructed to an elevation below the ground water table as depicted on the figure. If so, please describe how water quality pre-treatment will be met, since this open water feature would not be considered pre-treatment. Also, please describe if the ditch is intended to provide conveyance of water, and what reason or design capacity that conveyance is intended to be designed for.
- The new proposed roadway will be about 2.6 feet higher than the existing roadway which will result in higher hydrologic barrier along SW 359 Street. Provide drainage calculations to justify the adequacy of the proposed culvert size, and number of culverts to maintain the natural sheet flow to the wetland area south of SW 359 St. Additionally, in abnormally high water conditions the existing road would overtop, please include in the calculations how the proposed culverts will function in abnormally high water conditions to demonstrate that the road will not impound water for a greater amount of time than the existing condition.

Figure R9.3.2-4 (SW 359 St. from SW 117 Ave to Turkey Point Plant facility)

- Please provide a revised drawing indicating the width of the proposed swale on both sides of the road.
- Please clarify how the swales proposed to run west to east along the north and south sides of the proposed SW 359 street access road will affect sheet-flow across this access road.
- Please clarify if the proposed swales will discharge to the L31E Canal. Please provide drawings (plan and cross section views) showing the drainage details of the intersection of SW 359 street and the L31E.
- Please provide a drawing showing a typical plan view and cross section details of the culverts proposed to be installed for the purpose of maintaining sheet-flow across the proposed access road. The cross section should show the proposed 24"- 30" portable water main.
- Please clarify why Figure R9.3.2-4 shows a 10-foot striped median and Figure R9.3.2-15 does not show this striped median. Will the segment of the SW 359 Street depicted on this figure include a 10-foot striped median or not? Please provide appropriately revised plans.
- Please provide revised drawings showing the location of any proposed guard rail or fencing.
- In an effort to reduce the impacts of the proposed access road and considering that portions of the proposed access road are proposed to be removed and restored in the future, did FPL review alternative road and drainage designs that reduce the width of the proposed access road?
- Please provide revised drawings showing the portions of the proposed access road proposed to be removed and restored in the future. Please make sure that these drawings include details of the drainage for the maintenance road that will remain.

- Please explain if the proposed open system treatment by roadside swales is intended to be constructed to an elevation below the ground water table as depicted on the figure. If so, please describe how water quality pre-treatment will be met, since this open water feature would not be considered pre-treatment. Also, please describe if the ditch is intended to provide conveyance of water, and what reason or design capacity that conveyance is intended to be designed for.
- The new proposed roadway will be about 2.6 feet higher than the existing roadway which will result in higher hydrologic barrier along SW 359 Street. Provide drainage calculations to justify the adequacy of the proposed culvert size, and number of culverts to maintain the natural sheet flow to the wetland area south of SW 359 St. Additionally, in abnormally high water conditions the existing road would overtop, please include in the calculations how the proposed culverts will function in abnormally high water conditions to demonstrate that the road will not impound water for a greater amount of time than the existing condition.

Figure R9.3.2-5 (SW 137 Ave. from SW 359 St. to SW 344 St.)

- The existing ditch located on the west side of SW 137 Avenue is a part of the county's Water Control Plan for future improvement (PB 126 Pg 39). This ditch will need to be relocated, excavated, and the canal right-of-way dedicated to the county prior to filling this canal. A Class III permit will be required by virtue of prescriptive right to this canal.
- Please clarify what is meant by the note "existing ditch (to be relocated if necessary) (see note 5)". Please provide revised drawings showing the location where the existing ditch is proposed to be relocated.
- Per note No. 4. "*Closed system treatment and attenuation will be provided by proposed exfiltration trench.*" Please provide a revised figure that shows the proposed exfiltration trench.
- Please clarify why Figure R9.3.2-5 shows a 12-foot striped median and Figure R9.3.2-13 does not show this striped median. Will the segment of the SW 137 Avenue depicted on this figure include a 12-foot striped median or not? Please provide appropriately revised plans.
- The figure shows potential or likely impacts to the road side ditch which is part of the county's Water Control Plan for future improvement and continuance of existing water management function, per county PB 126 Pg 39. Please describe how that function and potential need for the ditch in will be accommodated. Describe if it will be maintained within the existing ROW or if additional ROW will be acquired as part of this feature.

Figure R9.3.2-6 (SW 117 Ave. from SW 359 St to SW 328 St.)

- Please clarify if the existing ditch located on the west side of SW 117 Avenue is proposed to be filled as part of the access road work?
- If it becomes necessary to fill one or both of the ditches on either side of SW 117 Avenue, how will FPL replace the drainage capacity provided by these existing ditches? The county currently owns a drainage easement west of the road right-of-way line (ORB 5103 Pg 488) and by virtue of prescriptive right, a Class III Permit will be required for the relocation or reconstruction of this drainage ditch.
- Please clarify if culverts are proposed to be installed to under the proposed access road for the segment of the proposed access road between SW 359 Street and SW 344 Street.

- Please clarify what is meant by the note “existing ditch (to be relocated if necessary)”. Please provide revised drawings showing where the existing ditch is proposed to be relocated to.
- Per note No. 5. “*Closed system treatment and attenuation will be provided by proposed exfiltration trench and overflow into existing ditch (pre vs. post drainage)*”. Please provide a revised figure that shows the proposed exfiltration trench.
- Please clarify why Figure R9.3.2-5 shows a 10-foot striped median. Will the segment of the SW 117 Avenue depicted on this figure include an 11-foot striped median or not? Please provide appropriately revised plans.
- The existing ditch is a necessary part of the county’s Water Control Plan and will be conditioned to be relocated and sized according to historic and future CERP plan. Please provide drainage cross-culverts along the improved roadway, with the culvert number and size design based on the natural groundwater flows to wetland areas impacted by this road.

MDC-D-28 – Previously determined complete

MDC-D-29 (Fifth Round)

This item remains incomplete and information previously requested must be provided to enable the County to determine whether the proposed project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by section 403.507 F.S. Information regarding the specific location of the proposed roadways and locations where additional rights-of-way must be acquired is needed in order for Miami-Dade County to evaluate the proposed project’s conformance with local requirements.

Miami-Dade County acknowledges FPL’s general description of where additional right-of-way may need to be acquired; however, the County requires clarification on this information. FPL states in its response “it appears that significant right-of-way exists along SW 328th Street to accommodate the roadway improvements with no impact to private landowners”. Please confirm whether all easements have been taken into account, including canal easements that may need to be relocated, when stating that sufficient right-of-way exists along SW 328 Street to accommodate the proposed road.

FPL states in its response “Depending upon the final design width of the roads along SW 137th Avenue and SW 117th Avenue, some impacts to adjacent property owners outside of the right-of-way may be necessary. If additional property is needed outside of public rights-of-way, FPL will obtain the necessary property interests.” Please confirm whether all easements have been taken into account, including canal easements that may need to be relocated, when considering the potential impact to adjacent property owners along SW 137th Avenue and SW 117th Avenue.

Miami-Dade County reiterates its request for information including identification of all adjacent property owners, including any lands owned by Miami-Dade County Environmentally Endangered Lands Program, from whom additional ROW may need to be acquired, along with the process by which this additional ROW would be acquired. Until such information is provided, this item remains incomplete.

MDC-D-30 – Previously determined complete

SECTION G - MISCELLANEOUS

MDC-G-1 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-G-2 – Previously determined complete

MDC-G-3 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-G-4 – Previously determined complete

MDC-G-5 – Previously determined complete

MDC-G-6 (Fifth Round)

Please see MDC's response Fifth Round to items MDC-A-23, MDC-A-26-2, MDC-D-1(a), MDC-D-21, and MDC-D-22.

MDC-G-7 (Fifth Round)

Complete. Based upon FPL statement regarding removal of the option of adding reclaimed water to the Model Lands Basin as a component of the project's mitigation plan, Miami-Dade County has determined that the information provided is sufficient for review.

MDC-G-8 – Previously determined complete

MDC-G-9 (Fifth Round)

Complete. Miami-Dade County has determined that the information provided is sufficient for review.

MDC-G-10 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-D-12.

MDC-G-11 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-G-6, MDC-D-1, MDC-D-9, MDC-D-12, MDC-D-14, and MDC-D-16.

MDC-G-12 (Fifth Round)

This item remains incomplete until all information requested has been provided.

Miami-Dade County acknowledges the continuing efforts to modify and refine the proposed mitigation plan. FPL must provide the complete and detailed mitigation plan for review. The County also acknowledges FPL's statement regarding the removal of the option of adding reclaimed water to the Model Lands Basin as a component of the project's mitigation plan so no additional information is needed on that aspect of the project. However information requested

to determine whether a variance would be required for other activities such as dewatering in contaminated areas is needed and has not been submitted. For example, please provide requested information to determine whether all dewatering discharges will meet applicable water quality standards.

As stated in previous rounds of completeness comments, the proposed reclaimed water treatment facility will require an Unusual Use Zoning approval. Resolution Z-56-07 is to approve a, "nuclear power plant (atomic reactors) and ancillary structures and equipment". The Miami-Dade County Code (Unusual Uses, Section 33-13(e)) establishes that a water treatment plant is a land use that shall not be permitted in any district unless approved upon public hearing. All information necessary for an Unusual Use review for FPL's proposed reclaimed water treatment plant should be supplied to the County at this time, and approval of a wastewater reuse plant as an Unusual Use is necessary prior to certification. Further details on required information submittals were previously provided in third round completeness comments under item B-3.

For construction of the proposed reclaimed water treatment facility, FPL must also provide all necessary information for Miami-Dade County to determine whether the proposed construction and location meet CDMP requirements for work in designated mangrove protection areas as well as Chapter 33 and Chapter 24 standards and requirements including but not limited to Class I dredge and fill criteria or whether variances will be required.

Miami-Dade County has previously advised FPL of the standards that apply in mangrove wetlands designated as MPAs. In addition to an evaluation of appropriateness under the CDMP, Chapter 24 also requires avoidance and minimization of impacts to these areas. MDC acknowledges FPL's identification of another potential site for the reclaimed water treatment facility, and requests all details and information on this potential site from past surveys and assessments including information on usage by crocodiles and any other listed species and provide copies of any covenants, conservation easements, or other documents that may relate to protection of any portion of this land as a result of past regulatory decisions.

Please clarify whether FPL is proposing this alternative site in lieu of the original location. In addition, in response to FPL's latest information regarding avoidance and minimization, please provide information sufficient for Miami-Dade County to determine whether all other potential options to avoid impacts to the high quality wetlands in this MPA can be ruled out including but not limited to employing more efficient use of space at existing and proposed facilities. For example, please identify how much acreage could be achieved at the existing and proposed facility sites if surface parking was changed to parking garages and these garages were collocated with buildings such as the administration building. Please explain if the site plan for the Unit 6 & 7 Site can be refined to accommodate the reclaimed water treatment facility within the boundaries of the island or the already developed adjacent areas. Please also see response MDC-B-2.

MDC-G-13 (Fifth Round)

This item remains incomplete. FPL has not provided the requested information regarding seasonal differences in groundwater flow cited in Section 3.3.3.2 of the SCA and a determination of the extent to which these are due to current operations at Turkey Point.

MDC-G-14 – Previously determined complete

MDC-G-15 – Previously determined complete

MDC-G-16 – Previously determined complete

MDC-G-17 – Previously determined complete

MDC-G-18 – Previously determined complete

MDC-G-19 – Previously determined complete

MDC-G-20 and MDC-G-21 (Fifth Round)

Miami-Dade County acknowledges submittal of a portion of the information requested under the 4th Round of Completeness Review. However, this item remains incomplete and information previously requested must be provided to enable the County to determine whether the project meets the requirements of Miami-Dade County Code, zoning regulations, including Resolution Z-56-07, and the CDMP, in order to prepare the reports required by Section 403.507 F.S. Table 1 (Project Impact Summary) remains incomplete as approximately 30% of the project impacts (as determined by FPL) do not have specific mitigation options identified for consideration by the County. The County reiterates that a complete wetlands mitigation plan must be submitted for review that details the specific mitigation proposed for the specific project impacts.

MDC-G-22 – Previously determined complete

MDC-G-23 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-G-6, MDC-D-1, MDC-D-9, MDC-D-12, MDC-D-14, and MDC-D-16.

MDC-G-24 – Previously determined complete

MDC-G-25 – Previously determined complete

MDC-G-26 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-D-1, MDC-D-9, MDC-D-12, MDC-D-13, MDC-D-21, and MDC-D-23.

MDC-G-27 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-24 Fifth Round.

MDC-G-28 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-G-20.

MDC-G-29 – Previously determined complete

MDC-G-30 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-G-7.

MDC-G-31 (Fifth Round)

This item remains incomplete. The County acknowledges FPL's response regarding Hole-In-The-Donut (HID) mitigation ratios applicable to Federal review of the project. However, a complete mitigation plan including mitigation ratios consistent with State and local requirements is required for review of this project. As stated previously, the County will require mitigation

based upon the requirements of the Miami-Dade County Code and applicable ordinances, and the ratios determined in the Basis of Review (BOR). Therefore, any mitigation proposal that includes credits from HID will be required to meet BOR ratios of 1.5:1 to 4:1 in addition to any minimum federal ratios. The County reiterates that a complete wetlands mitigation plan must be submitted for review that includes the aforementioned ratios for mitigation at HID.

MDC-G-32 (Fifth Round)

Miami-Dade County acknowledges the information provided by FPL and considers this item complete, however staff wishes to offer the following comment to improve future collaboration on similar issues: Information portrayed in Figure 4-MDC-G-32-1 indicates that there is a lack of consistency between Miami-Dade County's parcel layer, which was developed in cooperation with FPL during the early 1990's, and FPL's own sources of GIS information. Staff suggests that FPL and Miami-Dade County collaborate to determine the most accurate representation for the parcels located between Card Sound Road and the existing Turkey Point power plant complex so that FPL and Miami-Dade County, along with other government agencies, are using the best available location information in order to avoid misunderstandings.

MDC-G-33 – Previously determined complete

MDC-G-34 – Previously determined complete

MDC-G-35 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-G-20, MDC-G-21, and MDC-D-15.

MDC-G-36 – Previously determined complete

MDC-G-37 – Previously determined complete

MDC-G-38 – Previously determined complete

MDC-G-39 – Previously determined complete

MDC-G-40 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-26-1 and MDC-A-26-2.

MDC-G-41 (Fifth Round)

This item remains incomplete. Please provide the water quality data in support of FPL's claim that water from the CCS is not migrating to adjoining surface or groundwater in the vicinity of the CCS. Please also see MDC's Fifth Round response to items MDC-A-5, MDC-A-18, and Section C.

MDC-G-42 (Fifth Round)

Please refer to MDC's Fifth Round response to completeness items MDC-A-26-1

MDC-G-43 – Previously determined complete

MDC-G-44 (Fifth Round)

Please see MDC's Fifth Round response to items MDC-A-26-1 and MDC-A-26-2.

MDC-G-45 (Fifth Round)

Please see MDC's Fifth Round response to item MDC-A-26-2.

MDC-G-46 and MDC-G-47 (Fifth Round)

Please refer to MDC's Fifth Round response to completeness items MDC-A-26-1.