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Re: Via Varde Natural Gas Pipeline SAJ-2010-02881 (IP-EWG)

Dear Mr. Castillo:

This is in further reference to the Via Verde natural gas pipeline project proposed by the Puerto Rico Electric Power Authority (PREPA). Since our December 23, 2010 letter, additional information has been provided by PREPA and its consultants to address the U.S. Environn ental Protection Agency' (EPA's) concerns. In addition, the applicant met with EPA representatives on several occasions to present and/or discuss such additional information, including chapters for and six of the local Environmental Impact Statement (EIS) for the project, plus several summary sections.

In our previous letter, EPA objecte I to the issuance of a Department of the Army permit for the project based on the lick of a detailed alternatives analysis, concerns regarding the use of directional drilling, the lack of suitable compensatory mitigation to address wetlands impacts, and the need to complete a federal Environmental Impact Statement (EIS) for the project. The comments provided herein are based on a thorough review of the additional information furnished by the applicant and its consultants.

To address the alternatives analysis issue, PREPA provided information on the alternatives contained in the local EIS prepared for the project. These included a no action alternative, the construction of a natural gas import terminal on the north coast of the island, tanker and buoy systems and/or transfer platforms for receipt of natural gas at PREPA's Palo Seco, San Juan and Cambalache plants, gravity based systems, floating storage and regasification units, and several te restrial alignments for a natural gas pipeline system. While this represents a significant imilestone in the review of alternatives for the project, the documents provided included an additional option: The use of natural gas at PREPA's existing Costa Sur and Aguir epower generating facilities on the south coast of Puerto Rico, combined with the convertion of the nearby Las Mareas Port facility to receive liquefied natural gas (LNG) as means to achieve significant energy production using an alternative fuel. This project formerly known as the "Gosoducto del Sur", was previously considered by PREPA as means to address the diversification of the electric power supply methods in Puerto Rico. The project was briefly

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mentioned in in response to commer to from the U.S. Army Corps of Engineers and the Puerto EPA believed that PREPA's dismissal of this Rico Engineers and Surveyors Association. alternative vas inconsistent with the current project's overall project purpose, since it would provide PREPA with an alternative fi el option for two major generating facilitles with lesser environmen al impacts. However, after evaluating additional information furnished by the applicant's invironmental consultant it appears that Gasoducto del Sur was geared to provide natural gas to the combined cycle units ocated at the Aguirre Power Plant with a 592 MW operational capacity. On the other hand, Vin Ve de would provide natural gas and an increase in PREPA's operational capabilities to a total of 1,51) MW. Moreover, the Via Verde Project would provide PREPA with the flexi sility to operate the most e ficient power generating units on the island, which are located on the north coast, through the munito ing of each unit's rated capacity, individual fuel consumption and the type of fuel that fosters the lowest power generating costs. The Via Verde project would thus allow a more efficient use of such power generating units, allowing reductions in the transmission losses, as observed in other PREPA electric power transfer systems. EPA also defers to PREPA's expertise or the fact that "Gasc-ducto del Sur" may destabilize the island's electrical system, resulting in frequent collapses of the electric network of Puerto Rico. consideration of the supplied information, EPA believes that the alternatives analysis issues have been a idressed by the applicant

In regards to EPA's concerns about the use of directional drilling in wetlands and karst terrain, PREPA provided additional information regarding best management practices, the monitoring to be performed and the presence of specialized personnel during drilling operations to monitor the process and stop work in mediately if any escape of bentonite mud into karst formations and/or waters of the United States is suspected. In addition, during a March 2, 2011 meeting at the Corps of Engineers, PF EPA's consultants announced that directional drilling operations in karst terrain would be greatly reduced, since the pipeline route would be altered to circumve it haystack hills ("mcgott s"), light equipment would be used, and a pipeline pull method would be required to further reduce impacts. We commend PREPA on these impact reduction measures, and now believe that best management practices, combined with adequate manitoring by qualified per onnel should minimize any undesirable impacts from directional critting. EPA recommands that that a special condition to the Corps of Engineers permit, requiring the presence or a trilined independent geologist/engineer with expertise on karst terrain in the field at all times during drilling operations to closely monitor the process and stop work if any issues or abnormalities are detected be included. We also urge the Corps to consider ad litional special conditions requiring the avoidance of major karst formations during pipeline cor struction.

In our previous letter, we commented on the unsuitability of the initially proposed compensation for unavoidable impacts to aquatic resources. Additional information supplied by PREPA to address this issue includes, among others, a commitment to coordinate with the Department of Natural and Environmental Resources (DNER) to develop suitable on-site mitigation in a 3:1 ratio for any unavoidable impacts to aquatic resources. While PREPA has repeatedly stated that a suitable mitigation plan would be developed in a timely manner, EPA believes that such plan must be revie ved and accepted by the Corps of Engineers, EPA and all

natural resource agencies before continuction of the project begins. In addition, questions remain regal ding the concept of 'temporary impacts". PREPA expresses that after placing the pipeline, are as would be immediately brought back to initial conditions so that natural recolonization by prevailing vegetation legins. However, sections of the local Environmental Impact Statement (EIS) prepared for the project indicate a willingness to enhance areas by suppressing invasive and/or nulsance species at locations such as Caño Tiburones or other ecologically valuable areas. If PREPA lians to pursue such wetlands enhancement options, the areas need to be identified, quantified, and a specific plan to address local conditions must be developed. Additional details on the nanagement/maintenance methods to be used need to be clarified. EPA believes that any milligation and/or wetlands enhancement plans should include performance/success rates to evaluate their suitability and long term viability. Furthermore, please be advised that en January 14, 2011 the Council on Environmental Quality (CEQ) proviced guidance for departments and agencies of the Federal government on mitigation and monitoring of activitie i. As highlighted in this guidance, "Mitigation measures included in the project design are integral components of the proposed action, are implemented with the proposed actic n, and therefore should be clearly described as part of the proposed action." Therefore, EPA be leves that a more robust description of the mitigation and monitoring plans needs to be developed to ensure that this federal objective is fulfilled. The guidance further states that "Mitigation commitments needed to lower the level of impacts so that they are not significant should be clearly described in the mitigated FONSI [finding of no significant impact] document and in any other relevant decision documents related to the proposed artion." Therefore, any Corps-issued Environmental Assessment coupled with a FONSI for this project should include that information. We look forward to receiving and reviewing the mitigation plan documents as they become available.

One additional remaining concern for EPA is the proposed project's right-of-way (ROW). At various times throughout the documents supplied by PREPA, the ROW is described as being 100, 150 or 50 feet wide. The applicant's consultant has provided a brief description of the ROW categories, but we would appreciate a written, detailed explanation of the concept and its implementation along the final pipeline route in order to include it in the project review file for future reference.

In summary, we believe PREPA has a idressed most of our major concerns regarding the Via Verde Natural Gas Pipeline project. However, additional information is required to fully comply with the Clean Water Act, Section 40 I(b)(1) Guidelines requirements. We, therefore, condition our approval of the proposed project to receiving, for review and approval, a comprehensive mitigation I lan which addresses compensation for both, temporary and permanent impacts to wetlands and a detailed explanation of the project's variable right-of-way before project construction activities begin. In addition, we request that the permit includes a special condition requiring the presence of i idependent qualified personnel during drilling operations to closely monitor the process and stop work if any issues or abnormalities are detected.

If you have any questions or require a Iditional information on this matter, please contact Ms. Teresita Rod figuez, Chief of the Multil redia Permits and Compliance Branch (MPCB), at 787-977-5864 or Mr. José Soto, of the MPI B, at 787-977-5829.

Sincerely,

Carl-Axel P. Loderberg Director

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