

DOCKETED

Docket Number:	12-AFC-03
Project Title:	Redondo Beach Energy Project
TN #:	201606
Document Title:	Report of Conversation on January 27, 2014 re: Number of Retention Basins
Description:	Between CEC/Abdel-Karim Abulaban and CH2MHill/Sarah Madams, Project Consultant
Filer:	Alicia Campos
Organization:	California Energy Commission
Submitter Role:	Commission Staff
Submission Date:	1/28/2014 10:36:11 AM
Docketed Date:	1/28/2014

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Siting and Environmental Protection Division

FILE: (2012-AFC-03)

PROJECT TITLE: Redondo Beach Energy Project

<input type="checkbox"/> Telephone		<input type="checkbox"/> Meeting Location: Email exchange
NAME: Abdel-Karim Abulaban	DATE: 01/27/2014	TIME: 2:47 p.m.
WITH: Sarah Madams, project consultant (CH2MHILL)		
SUBJECT: Number of retention basins		

Background: There was some confusion about the number of retention basins that will be used for the proposed project as it was stated in the Application for Certification (AFC). In sections 5.15.1.5 and 5.15.1.6 it seemed like two retention basins were going to be used, one for non-contact stormwater and the other for stormwater collected from process equipment containment areas. However, the AFC did not give any details about the second retention basin. An email was originated by Energy Commission staff to inquire about the second retention basin. The response received from the Project consultant indicated that there is only one retention basin that will collect both non-contact stormwater as well as the stormwater that falls within process equipment containment areas after it is processed in the oil/water separation system. The chain of emails is attached to this document.

CC:	Signed:
	Name: Abdel-Karim Abulaban

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From: Sarah.Madams@CH2M.com [<mailto:Sarah.Madams@CH2M.com>]
Sent: Monday, January 27, 2014 2:47 PM
To: Kelly, Patricia@Energy
Cc: Jerry.Salamy@CH2M.com
Subject: RE: RBEP retention basins

Good Afternoon Pat-

Karim is correct in that this probably could have been written a bit more clearly. In an effort to make this as simple as possible, I've compiled some quick flow charts below to clarify. Note there is only one retention pond, one o/w separator and one ocean outfall for RBEP.

- Rain -> storm drains in non contact areas -> retention pond -> ocean outfall
- Rain -> storm drains in contact areas (near equipment with oil/grease) -> o/w separator -> retention pond -> ocean outfall
- Process water drains from areas with potential oil/grease contact -> o/w separator -> retention pond -> ocean outfall
- Process water drains from areas without oil/grease contact (i.e. CTG inlet air evaporative cooler blowdown, HRSG blowdown, blowdown from the auxiliary cooling system fin fan fluid cooler, and reverse osmosis reject) -> o/w separator -> retention pond -> ocean outfall
- Clear water storage process water (that cannot be recycled further and used within the RBEP) -> retention pond -> ocean outfall
- Miscellaneous wastewaters, including those from combustion turbine water washes and from some water treatment membrane-based system's cleaning operations -> holding tanks/sumps -> trucked offsite for disposal at an approved wastewater disposal facility.

From: Kelly, Patricia@Energy [<mailto:patricia.kelly@energy.ca.gov>]
Sent: Monday, January 27, 2014 2:10 PM
To: Madams, Sarah/SAC
Subject: FW: RBEP retention basins

Sarah: Please see below.

From: Abulaban, Abdel-Karim@Energy
Sent: Monday, January 27, 2014 2:00 PM
To: Kelly, Patricia@Energy
Cc: Marshall, Paul@Energy; Layton, Matthew@Energy; Townsend-Hough, Ellie@Energy
Subject: RE: RBEP retention basins

Pat,



The way those two retention basins are described in section 5.15.1.6. indicates that the nature of water collected by them is different. At the beginning of paragraph 1 it says: "Stormwater will be collected in a new onsite retention basin and then discharged to the Pacific Ocean ..." This means that the water collected here would not be treated.

The first part of the second paragraph says: "Stormwater that falls within process equipment containment areas will be collected and discharged to the process drain system that consists of oil/water separation sumps **and one retention basin.**" This language suggests that this water needs to be treated before it mingles with the other, noncontact, stormwater, because it cannot be discharged to the ocean without treatment. The confusion is caused by the words "consists of oil/water separation sumps and one retention basin" which makes it sound like this retention basin is intended to receive the water from the oil/water separator for treatment. It would have been clearer if the sentence terminated at "sumps" and then a new sentence is added where it says that non oil-containing water from the oil/water separator would be discharged to the stormwater retention basin to be discharged to the ocean, assuming that is what is intended. Could you please check with them if this is their intent so that we docket their response and make it official.

Thanks.
Karim

From: Kelly, Patricia@Energy
Sent: Monday, January 27, 2014 1:00 PM
To: Abulaban, Abdel-Karim@Energy
Subject: FW: RBEP retention basins

FYI

From: Sarah.Madams@CH2M.com [<mailto:Sarah.Madams@CH2M.com>]
Sent: Monday, January 27, 2014 12:46 PM
To: Kelly, Patricia@Energy
Subject: RE: RBEP retention basins

Hi Pat-

In reviewing the sections identified below, I think I can clear this up. There is only one retention basin onsite, located under the ACC. Stormwater and the process drain system all end up here.

If you look at the water balance diagrams on Figures 2.1-5a and b, the retention pond (although not called out directly) would come after the oil water separator. Technically there should be a line showing the process drains tying into the oil water separator (if the drain was from an area that could potentially contain oil or grease) then to the retention pond. If it was "clean" water from the process drains, as well as the "Clear Water Storage" process water shown on the water balance diagram, would go directly to the retention pond and skip the oil water separator.

Sarah

From: Kelly, Patricia@Energy [<mailto:patricia.kelly@energy.ca.gov>]
Sent: Monday, January 27, 2014 8:13 AM

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To: Madams, Sarah/SAC
Subject: FW: RBEP retention basins

Sarah: Can we ask for this information as an ROC? pat

From: Abulaban, Abdel-Karim@Energy
Sent: Friday, January 17, 2014 10:47 AM
To: Kelly, Patricia@Energy
Cc: Marshall, Paul@Energy
Subject: RBEP retention basins

Pat,

In sections 5.15.1.5 & 5.15.1.6 of the RBEP AFC the applicant mentioned two retention basins, one for stormwater process wastewater, and the other one that's part of the process drain system. However, I could not find any information about the one associated with the process drain system anywhere in the text or on any of the figures in the appendixes. I checked the project description, the water resources, and the waste sections. We did not think this is worth a data request so we wanted to see if you can get the information for us from the applicant.

Thanks.
Karim