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October 27, 2010

Robert Perdue  
Executive Officer  
California Regional Water Quality Control Board  
Colorado River Basin Region  
73-720 Fred Waring Drive, Suite 100  
Palm Desert, CA 92260

**Subject: Request for Reverse Osmosis Concentrate Sampling Location Change  
Board Order R7-2006-0060  
Interim Measure No. 3 Groundwater Treatment System  
PG&E Topock Compressor Station, Needles, California**

Dear Mr. Perdue:

Pacific Gas and Electric Company (PG&E) performs monitoring at the Topock Compressor Station, Interim Measure (IM) No. 3 Groundwater Treatment System in accordance with Board Order R7-2006-0060 issued September 20, 2006 and the revised Monitoring and Reporting Program, issued August 28, 2008.

PG&E is proposing to modify the reverse osmosis (RO) concentrate sample collection location (Station D) to ensure the samples are representative of what is shipped offsite, as discussed in the Third Quarter 2010 Monitoring Report for IM3 submitted October 15, 2010. This proposed change is based on the standard operation of the modern RO system installed in mid-2009. This new RO system includes a secondary stage which operates with several on/off cycles and automatic back-flushing procedures per day. Between operating cycles, the secondary stage back-washes using permeate (water that has been treated by the RO unit to remove salinity) to flush the salty concentrate from RO unit metal pipes as a corrosion prevention measure. Under these operating conditions a sample collected at the current sampling point may contain either RO concentrate or back-wash, depending on the time of sample collection. Both the RO concentrate and back-wash flow to the RO concentrate storage tank (T-701), and then to the RO concentrate holding tanks for offsite disposal.

The current Station D is located at RO unit influent piping to the RO concentrate storage tank (T-701). This sampling location was established in 2005 when the RO unit was operating continuously, with a constant flow of concentrate past the sampling location. PG&E is proposing to relocate the RO concentrate sampling Station D to a discharge

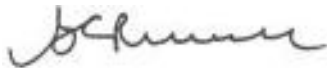
nozzle from the RO concentrate Storage Tank (T-701). This location will ensure RO concentrate samples are representative of the material that is sent offsite for disposal.

Attached is the RO unit drawing with the new proposed sampling Station D highlighted. No other changes are proposed.

Our understanding is that revisions to the Monitoring and Reporting program require Executive Officer approval. With that approval, we would be prepared to begin use of the new RO Concentrate sampling Station D location for the next scheduled RO concentrate sampling during the first week of December 2010.

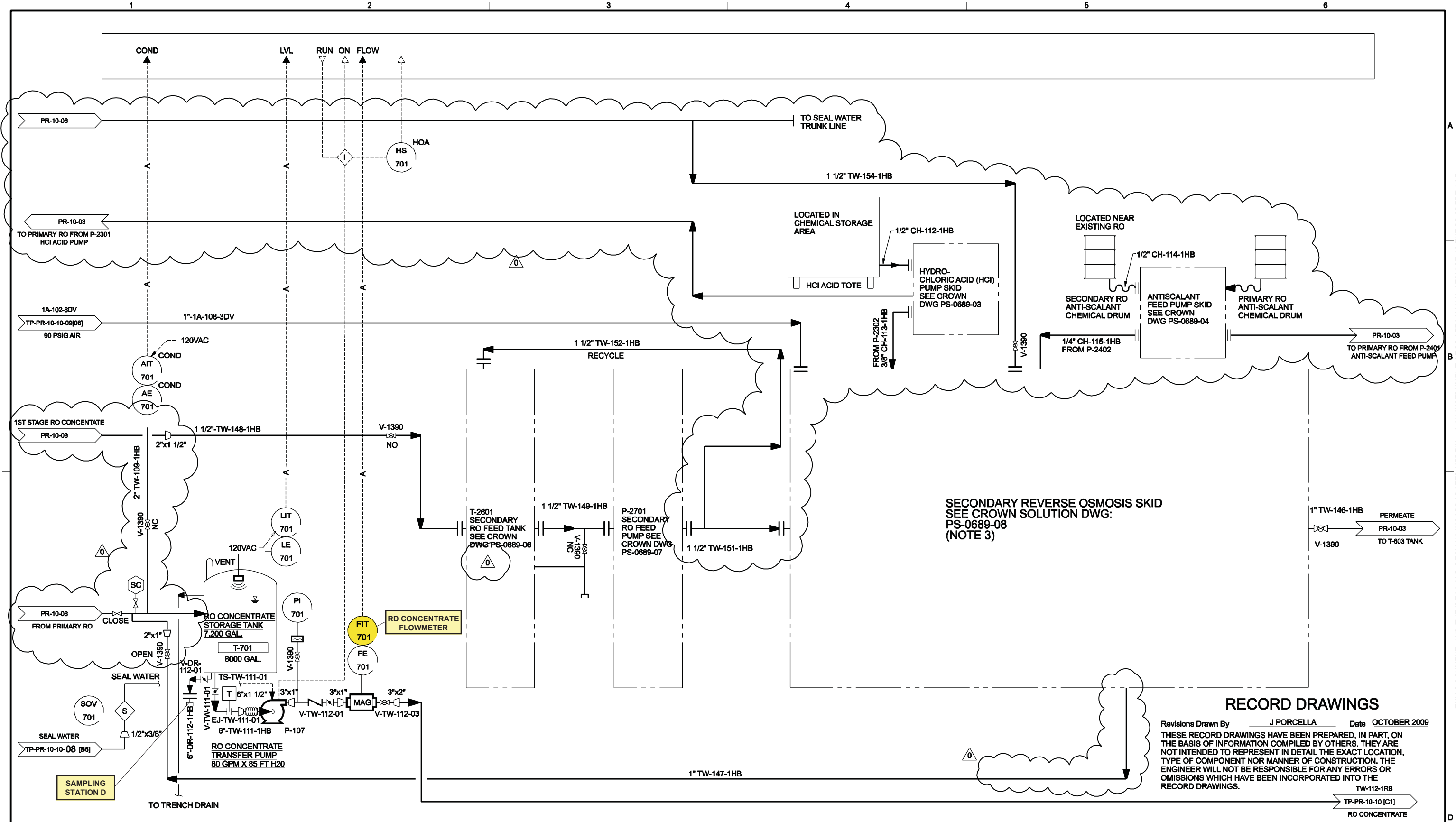
We appreciate your consideration of our request. If you have any questions regarding this request or would like to discuss it in more detail, please call me at (760) 791-5884 or Robert Doss at (415) 973-7601.

Sincerely,



Curt Russell  
Topock Site Manager

cc: Tom Vandenberg, State Water Resources Control Board  
Jose Cortez, Colorado River Basin Regional Water Quality Control Board  
Aaron Yue, Department of Toxic Substances Control



SECONDARY REVERSE OSMOSIS SKID  
SEE CROWN SOLUTION DWG:  
PS-0689-08  
(NOTE 3)

**RECORD DRAWINGS**

Revisions Drawn By J PORCELLA Date OCTOBER 2009  
 THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED BY OTHERS. THEY ARE NOT INTENDED TO REPRESENT IN DETAIL THE EXACT LOCATION, TYPE OF COMPONENT NOR MANNER OF CONSTRUCTION. THE ENGINEER WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THE RECORD DRAWINGS.

**\*\* ORIGINAL STAMPED AND SIGNED BY: JOHN PORCELLA CALIFORNIA PE NO. C70145 ON 04-01-2009 \*\***

NO.	DATE	REVISION	BY	CHK	REVISION APPROVAL		REV 0	DATE 10/02/09	PRINT DISTRIBUTION	STATUS							
					DISCIPLINE	REVIEWED				DISCIPLINE	REVIEWED	DATE	ISSUED	REV	DATE	SDE	PEM
A	2/12/09	INTERNAL REVIEW								ISSUED							
B	2/12/09	CLIENT REVIEW								PRELIMINARY	A	2/12/09	JP	JP			
C	4/01/09	FOR REVIEW AND APPROVAL	JR	JP	STRUCTURAL		INST & CONTROL	JG	REV.	FOR REVIEW AND APPROVAL	C	4/01/09	JP	JP			
D	11/17/09	FINAL RECORD ISSUE	JR	JP	MECHANICAL	SJ	ARCHITECTURAL		CLIENT	APPROVED FOR CONSTRUCTION							
					PROCESS	DF	ENVIRONMENTAL		FIELD	REVISED & APPROVED FOR CONSTRUCTION	0	10/02/09	JP	JP			
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PACIFIC GAS & ELECTRIC CO.  
TOPOCK COMPRESSOR STATION  
INTERIM MEASURE 3  
PLANT PERFORMANCE IMPROVEMENTS  
**PROJ NO. 362032**

PROCESS AND INSTRUMENTATION DIAGRAM  
REVERSE OSMOSIS SYSTEM  
SHEET TWO OF TWO  
**DWG. NO. PR-10-04 REV. 0**

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