

**PACIFIC GAS AND ELECTRIC COMPANY  
PSEP Update  
Application 13-10-017  
Data Response**

PG&E Data Request No.:	ORA_004-09		
PG&E File Name:	PSEP-Update_DR_ORA_004-Q09		
Request Date:	February 13, 2014	Requester DR No.:	ORA 4
Date Sent:	February 28, 2014	Requesting Party:	Office of Ratepayer Advocates
PG&E Witness:	Sumeet Singh	Requester:	Tom Roberts/Alaine James

**SUBJECT: PWC QUALITY ASSURANCE: PIPELINE PROGRAM DATA VALIDATION PROCESS**

**QUESTION 9**

In many QA steps, PwC used a manual process to compare to data points, or to check for correct decisions in the project workbook. Why did PwC perform these processes manually rather than an automated process?

- a) Did time or resource constraints impact the decision to perform manual vs. automated QA tests? Is so, please explain.
- b) In hindsight, would PwC have used more automated QA tests in reviewing the PSEP Update? Is so, explain why and which QA step PwC would automate.

**ANSWER 9**

- a) Each QA test begins as a manual review. If a test can be made more efficient with an automated review, then one should be designed and implemented. Given the need for direct comparison and interpretation of data for most of the PSEP Update QA tests, the development of automated tests did not offer benefits over manual review. Where the time investment in development and implementation of an automated review was appropriate, automated functions were developed for use.
- b) Given the nature of the work (a one time regulatory filing), no. PwC would have not used more automated QA tests in reviewing the PSEP Update.