

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

PG&E Data Request No.:	SED_001-01		
PG&E File Name:	PSEP-Update_DR_SED_001-Q01		
Request Date:	June 19, 2013	Requester DR No.:	SED_EM-1
Date Sent:	June 27, 2013	Requesting Party:	Safety and Enforcement Division
PG&E Responder:	Sara Peralta	Requester:	Elizaveta Malashenko

Question 1

Overview of the PG&E QA/QC program. SED understands that PG&E has created a new organization to focus on Quality Assurance and Quality Improvement of gas operations. SED would like to see the charter for this program that explains its purpose, how it's functions and they key processes involved.

Response 1

Attachment 1-1 provides an overview of PG&E's QA/QC program. The document defines the primary functions of the Quality & Improvement Organization within Gas Operations and also describes the QC and QA programs in place.

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

PG&E Data Request No.:	SED_001-02		
PG&E File Name:	PSEP-Update_DR_SED_001-Q02		
Request Date:	June 19, 2013	Requester DR No.:	SED_EM-1
Date Sent:	June 27, 2013	Requesting Party:	Safety and Enforcement Division
PG&E Responder:	Sara Peralta	Requester:	Elizaveta Malashenko

Question 2

PG&E Quality Assurance Plan. SED understands that PG&E has different QA/QC procedures for different types of work/programs. SED staff assumes that there is an overall plan that summarizes how PG&E ensures Quality Assurance and performs Quality Control across different types of activities.

Response 2

Attachment 1-1 provides an overview of PG&E's QA/QC program and describes the process PG&E employs to perform Quality Control across different types of activities.

Attachments 2-1 through 2-24 provide information on PG&E's QA Plan for 2013, Quality Assurance procedures for Gas Operations major program areas, and the auditing process in Gas Operations. Note that many of the procedures are still in development; however PG&E has been employing these practices.

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

PG&E Data Request No.:	SED_001-03		
PG&E File Name:	PSEP-Update_DR_SED_001-Q03		
Request Date:	June 19, 2013	Requester DR No.:	SED_EM-1
Date Sent:	June 27, 2013	Requesting Party:	Safety and Enforcement Division
PG&E Responder:	Joe Medina Todd Hogenson Redacted	Requester:	Elizaveta Malashenko

Question 3

PG&E Quality Assurance Plan for PSEP Development. Development of the PG&E PSEP program involves several steps, including:

- a. Validation of MAOP
- b. Validation of Pipelines Features
- c. Upgrade to the GIS Intrepid System to house validated information and underlying records
- d. Extraction of data from the Intrepid database into a PSEP dedicated database
- e. Application of the “decision tree” logic to PSEP database to identify projects (hydrotesting, replacement etc.)
- f. Compiling the data into the actual PSEP plan, with specific projects and corresponding cost estimates.

SED is requesting a PG&E plan that outlines the specific QA/QC steps that PG&E takes to ensure integrity throughout the PSEP development process. The documents provided by PG&E so far (response to the DRA data request and Procedure for the Resolution of Unknown Pipeline Features) show QA/QC as embedded elements on the overall process, but what we are looking for is a comprehensive QA/QC plan that shows Quality Assurance throughout the entire PSEP development process.

Response 3

Attachment 3-1, 3-9 and 3-10 show the process flow and specific QA/QC steps of the PSEP program from MAOP validation to PSEP implementation. Attachments 3-2 through 3-8 provide documentation relating to PG&E’s Quality Assurance and Quality Control processes used in PG&E’s PSEP program.

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

PG&E Data Request No.:	SED_001-04		
PG&E File Name:	PSEP-Update_DR_SED_001-Q04		
Request Date:	June 19, 2013	Requester DR No.:	SED_EM-1
Date Sent:	June 27, 2013	Requesting Party:	Safety and Enforcement Division
PG&E Responder:	Redacted	Requester:	Elizaveta Malashenko

Question 4

PG&E Quality Assurance Plan for PSEP Implementation. SED has a copy of the PG&E PSEP Procedure/Guide, which has a section on Quality Assurance. However, considering the size of the program the SED expectation is that PG&E has a specific procedure for quality assurance of the work being performed (hydrotesting, pipe replacement etc.). Such procedure should include both QA/QC of the work in the field, as well as back office processes. SED is requesting a copy of the QA/QC Plan for the ongoing PSEP work.

Response 4

Attachment 4-1 is the existing PSEP Process Manual and Program Execution Plan, which describes the processes, roles and responsibilities for executing PSEP work. Section 7 of the plan describes the QA and QC controls to ensure quality standards are met. This plan is currently being updated to include the back offices processes and is expected to be published in July 2013.

Attachments 4-2 and 4-3 are the field manuals used for quality control of the PSEP work performed in the field.

Attachment 4-4 is the Quality Control Plan for construction of all gas transmission projects, including PSEP.

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

APPENDIX

Response 1 Attachment

	Attachment Name	Attachment Description
1-1	PSEP-Update_DR_SED_001-Q01Atch01.pdf	Overview of PG&E's Quality & Improvement Organization

Response 2 Attachments

	Attachment Name	Attachment Description
2-1	PSEP-Update_DR_SED_001-Q02Atch01.pdf	QA Plan for 2013
2-2	PSEP-Update_DR_SED_001-Q02Atch02.pdf	Gas Quality Control Distribution Assessment Program
2-3	PSEP-Update_DR_SED_001-Q02Atch03.pdf	Gas Quality Control Transmission Assessment Program
2-4	PSEP-Update_DR_SED_001-Q02Atch04.pdf	M&C GAS QUALITY CONTROL WORK VERIFICATION (RE-DIG) DETAILED PROCESS
2-5	PSEP-Update_DR_SED_001-Q02Atch05.pdf	Gas Quality Control Standard
2-6	PSEP-Update_DR_SED_001-Q02Atch06.pdf	Gas Quality Control Leak Survey Next Day Assessment Program
2-7	PSEP-Update_DR_SED_001-Q02Atch07.pdf	Gas Quality Control Locate and Mark Assessment Program
2-8	PSEP-Update_DR_SED_001-Q02Atch08.pdf	General Construction and Title 300 Work Quality Assessments
2-9	PSEP-Update_DR_SED_001-Q02Atch09.pdf	Field Service Work Quality Assessment
2-10	PSEP-Update_DR_SED_001-Q02Atch10.pdf	Rotary Meter Maintenance Quality Assessment
2-11	PSEP-Update_DR_SED_001-Q02Atch11.pdf	Valve Installation and Maintenance Quality Assessment
2-12	PSEP-Update_DR_SED_001-Q02Atch12.pdf	District Regulator Station Maintenance Quality Assessment
2-13	PSEP-Update_DR_SED_001-Q02Atch13.pdf	Corrosion Maintenance Quality Assessment
2-14	PSEP-Update_DR_SED_001-Q02Atch14.pdf	Auditing Annual Schedule, Gas Operations Quality and Improvement
2-15	PSEP-Update_DR_SED_001-Q02Atch15.xlsx	The form associated with the "Auditing Annual Schedule, Gas Operations Quality and Improvement" procedures
2-16	PSEP-Update_DR_SED_001-Q02Atch16.pdf	Auditing Procedure, Gas Operations Quality and Improvement
2-17	PSEP-Update_DR_SED_001-Q02Atch17.xlsx	The auditing workbook form associated with the "Auditing Procedure, Gas Operations Quality and Improvement"
2-18	PSEP-Update_DR_SED_001-Q02Atch18.pdf	The audit report form associated with "Auditing Procedure, Gas Operations Quality and Improvement"

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

APPENDIX

2-19	PSEP-Update_DR_SED_001-Q02Atch19.pdf	The auditing meeting attendance form associated with "Auditing Procedure, Gas Operations Quality and Improvement"
2-20	PSEP-Update_DR_SED_001-Q02Atch20.pdf	Auditing Process Owner Feedback Form associated with "Auditing Procedure, Gas Operations Quality and Improvement"
2-21	PSEP-Update_DR_SED_001-Q02Atch21.pdf	Auditor Evaluation Form associated with "Auditing Procedure, Gas Operations Quality and Improvement"
2-22	PSEP-Update_DR_SED_001-Q02Atch22.pdf	Auditing Metrics, Gas Operations Quality and Improvement
2-23	PSEP-Update_DR_SED_001-Q02Atch23.pdf	Auditing Metrics Form associated with "Auditing Metrics, Gas Operations Quality and Improvement" procedures
2-24	PSEP-Update_DR_SED_001-Q02Atch24.pdf	Auditing Standard, Gas Operations Quality and Improvement

Response 3 Attachments

	Attachment Name	Attachment Description
3-1	PSEP-Update_DR_SED_001-Q03Atch01.pdf	Process flow charts showing (1) Extraction of Data from the PFL Database into a PSEP Dedicated Database and (2) Application of Decision Tree Logic for Identifying Projects, and Compiling Data into Specific Projects with Costs
3-2	PSEP-Update_DR_SED_001-Q03Atch02.pdf	PSEP's Scope and Change Control process
3-3	PSEP-Update_DR_SED_001-Q03Atch03.pdf	The process engineering teams will use to generate revised work papers for PSEP
3-4	PSEP-Update_DR_SED_001-Q03Atch04.pdf	PODS Certification Plan
3-5	PSEP-Update_DR_SED_001-Q03Atch05.pdf	TD-4199P-01, "Procedure for the Resolution of Unknown Pipeline Features (PRUPF)"
3-6	PSEP-Update_DR_SED_001-Q03Atch06.pdf	PG&E Response to DRA Data Request regarding MAOP Validation process and input into PSEP program, dated May 17, 2013
3-7	PSEP-Update_DR_SED_001-Q03Atch07.pdf	Overview of PG&E's MAOP Validation Effort, dated March 21, 2013
3-8	PSEP-Update_DR_SED_001-Q03Atch08.msg	Email dated April 9, 2013 transmitting PG&E's Quality Assurance (QA) / Quality Control (QC) Documentation of PG&E's Records Verification and MAOP Validation Process to parties on Service List for R.11-02-019
3-9	PSEP-Update_DR_SED_001-Q03Atch09.pdf	Process Flow for MAOP Report Uploading Process
3-10	PSEP-Update_DR_SED_001-Q03Atch10.pdf	Process Flow GIS Spatial Alignment Process

**PG&E Quality Assurance/Quality Control (QA/QC) Processes for Gas Operations
Data Response**

APPENDIX

Response 4 Attachments

	Attachment Name	Attachment Description
4-1	PSEP-Update_DR_SED_001-Q04Atch01.pdf	PSEP Process Manual and Program Execution Plan
4-2	PSEP-Update_DR_SED_001-Q04Atch02.pdf	Gas Transmission Pipeline Construction Quality Control Level I Field Manual
4-3	PSEP-Update_DR_SED_001-Q04Atch03.pdf	Gas Transmission Pipeline Construction Quality Control Level II Field Manual
4-4	PSEP-Update_DR_SED_001-Q04Atch04.pdf	Quality Plan PSEP Construction