Pipeline Safety Enhancement Plan (PSEP)

Quality Control and Quality Assurance
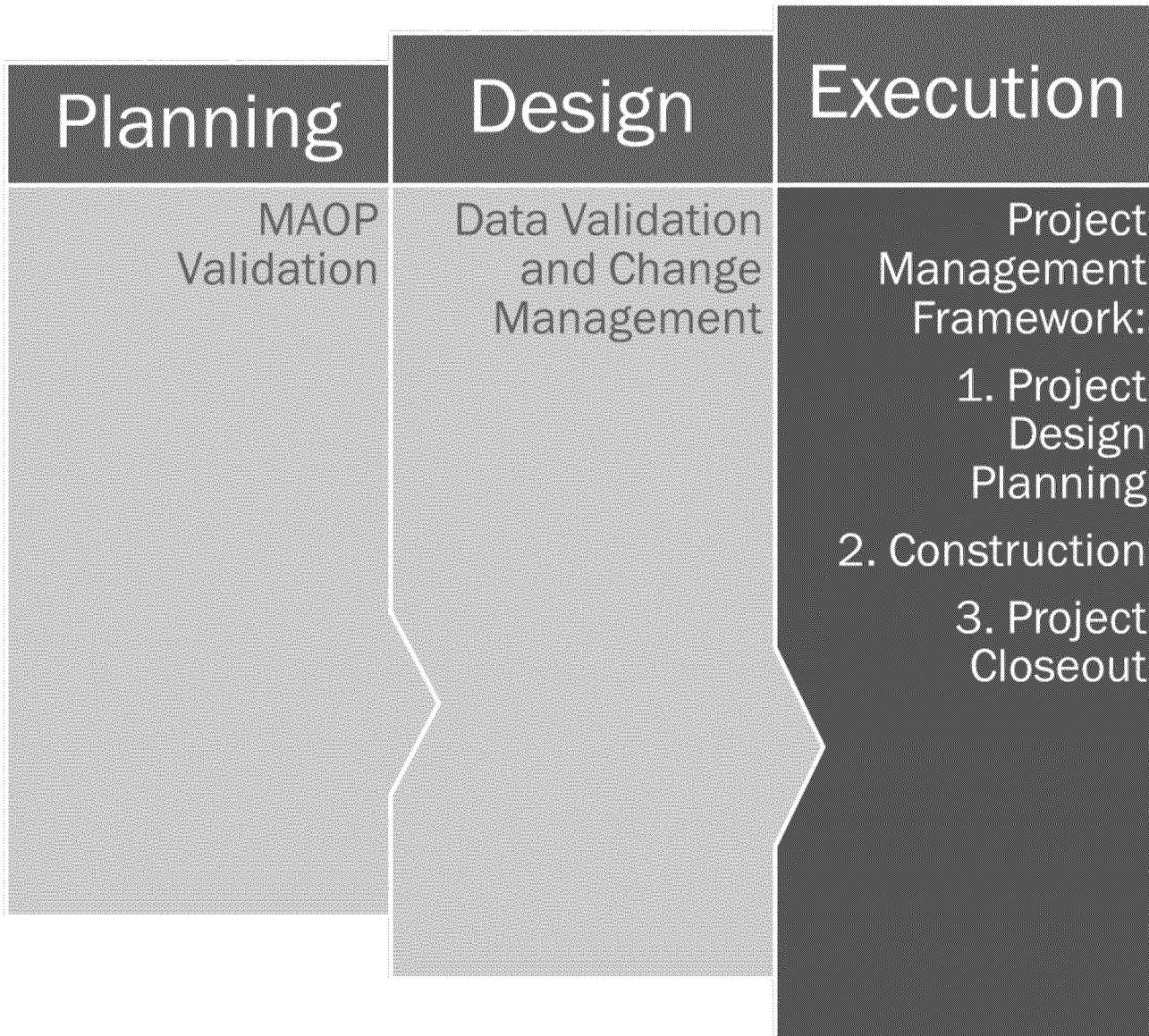Overview Work Implementation Phase

PG&E®

Contents/Agenda

- Overview QA/QC Activities – CPUC SED category format

- Project Management Control Framework

  - Project Design/Planning

  - Construction

  - Project Closeout

- Organizational overview – QA/QC activities

QA/QC Activities

Planning	Design	Execution
MAOP Validation	Data Validation and Change Management	Project Management Framework: 1. Project Design Planning 2. Construction 3. Project Closeout

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Project Management Control Framework

Project Design/Planning Quality Control Points

Initial Job Authorizations	Competitive Bidding & Alliance Target Pricing	Program Governance*
50% Job Walks	Safety –Site Specific Safety Plans and Traffic Control Plans*	Project Management
Engineering Design Reviews*	Construction Approval* (permitting, engineering and project management)	Cost and Schedule Management
Project Job Estimate (pre-construction)	Customer Outreach Open Houses and Letters/Calls	Contract Approval per Delegated Authority Limits

*Control subject to a Quality Assurance check.

3

Project Management Control Framework

Construction Quality Control Points

Safety Site Inspections Leadership on-site visits	NDE Inspection* Random Field Observation by ATS SMEs (commenced July 2012)
Environmental Compliance Site Inspections	Construction Oversight Bureau Veritas (2011 Strength Testing only)
Construction Management Inspection* (per Level I QC field manual)	RCP Independent Certification of Hydrotest Results (Strength Testing only)
Operator Qualification*	Site Restoration
Program Quality Assurance Site Inspections (Level II QA Field Manual)	Supplier Quality Audits

*Control subject to a Quality Assurance check.

Project Management Control Framework

Project Closeout Quality Control Points

Completion of As-Builts (checklist)*

Mapping
(Pipeline information entered into Asset database)

Project Record Archival*

*Control subject to a Quality Assurance check.

Organizations Performing QA/QC Activities