

ORA DATA REQUEST
ORA-SDGE-141-TCR
SDG&E 2019 GRC – A.17-10-007
SDG&E RESPONSE
DATE RECEIVED: FEBRUARY 21, 2018
DATE RESPONDED: MARCH 9, 2018

Exhibit Reference: SDG&E-14 and SDG&E-24

SDG&E Witness: Alan F. Colton and Christopher R. Olmsted

Subject: IT projects sponsored by electric distribution

Please provide the following:

1. If not addressed in response to DR ORA-SDG&E-140, Q1, explain the significance of multiple projects with the same three budget code numbers, but a different letter suffix.

SDG&E Response 01:

This was addressed in the response to DR ORA-SDG&E-140, Q1.

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2. If not addressed in response to DR ORA-SDG&E-140, Q1, explain why two projects that appear to address the same system, CPD enhancement projects, 3 and 4, have different budget codes, 813A and 833J respectively?

SDG&E Response 02:

The budget code 813 that was assigned to CPD Phase 3 is an error. The correct budget code for CPD Phase 3 should be the same as CPD Phase 4, budget code 833.

The 'alpha' after the budget code is addressed in the response to DR ORA-SDG&E-140, Q1.

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3. If the following base budget codes, without the letter suffix, refer to a specific type of project or program, define the type of work they refer to:

- a. 813,
- b. 829,
- c. 833,
- d. 834,
- e. 3851,
- f. 3852,
- g. 14860

SDG&E Response 03:

The above referenced budget codes are blanket budget codes that incorporate many comparatively small like-kind items and are not assigned to a specific project or program. IT blanket budget codes are based on activities, as described below.

- a. 813 – Software Utility Operations - Mandated
- b. 829 – Network/Telecom Hardware – Reliability/Improvements
- c. 833 – Software Utility Operations – Reliability/Improvements
- d. 834 – Hardware Utility Operations – Reliability/Improvements
- e. 3851 – Software Utility Operations – Strategic
- f. 3852 – Hardware Utility Operations – Strategic
- g. 14860 – Smart Grid

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4. Two projects listed in Exhibit SDG&E-24 workpapers are not described in Exhibit SDG&E-14: budget code 00813C (DIIS phase 4) and 14860A (DERMS). Please state whether electric distribution driven projects that are included in SDG&E's forecast for Exhibit SDG&E-24. If SDG&E intended to provide information in Exhibit SDG&E-14 these projects, please provide the information and if it will be added in future revisions of testimony.

SDG&E Response 04:

The DIIS Phase 4 project is described in the capital workpapers of Mr. Olmsted (SDG&E-24-CWP-R) at pages 407-408.

The DERMS project is described in the capital workpapers of Mr. Olmsted (SDG&E-24-CWP-R) at pages 475-476.

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5. Please define and describe the following acronyms and terms used in Exhibit SDG&E-14 regarding IT projects on pages 155 to 165:

- a. CPD,
- b. CMP,
- c. SAP PM,
- d. Archer software,
- e. BPM,
- f. TSPI
- g. DIIS (Exhibit SDG&E-24 workpapers)

SDG&E Response 05:

- a. CPD,
 - a. Definition – Construction, Planning and Design
 - b. Description – An SAP based application to support Electric and Gas Distribution Construction Project lifecycle, from planning through reconciliation and accounting. Contains both standard and customized functionality to support utility business requirements.

- b. CMP,
 - a. Definition – Corrective Maintenance Program
 - b. Description – A maintenance program for SDG&E’s overhead and underground electric distribution system mandated by CPUC, related to General Order 165.

- c. SAP PM,
 - a. Definition – SAP Plant Maintenance
 - b. Description – This is a SAP-based application to support Construction Maintenance & Inspection activities. (SAP is ‘Systems, Applications and Products’, an enterprise accounting system described in ORA-28-TCR).

- d. Archer software,
 - a. Definition - Software
 - b. Description – An enterprise governance, risk, and compliance management application with customizable solution development toolkits.

- e. BPM,
 - a. Definition – Business Process Management
 - b. Description - An enterprise business process management/workflow/case management tool used to automate currently manual business processes. Provides integration to key systems. Puts into the hands of non-IT organizations a tool to develop business process work flows on an IT supported platform—moving away from departmental, ‘home-grown’ non-IT supported applications.

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SDG&E Response 05 Continued:

f. TSPI

- a. Definition – Transmission Substation Project Integration
- b. Description – Replace the existing Budget System Estimating tool with a more robust, and IT supported cost estimation tool that utilizes geospatial capabilities to access GIS layers as well as transmission and substation assemblies.

g. DIIS

- a. Definition – Distribution Interconnection Information System
- b. Description - A software program and database developed in-house that offers a variety of functions and capabilities, including:
 - Automated online interconnection application tool for customers and contractors - Accessible from web, tablet and smart phones
 - Providing real-time interconnection process status updates and notifications to customers and contractors
 - Remote metering configuration
 - A database that tracks all electricity generation facilities interconnected to SDG&E's system, including monitoring transformer loading
 - Available for a variety of uses to departments, company-wide, including transmission system planning, distribution system planning, and customer service personnel
 - Integrated with the customer billing system and geographic information system
 - A tool used to manage internal workflow and workload of customer generation inspectors and the overall Net Energy Metering interconnection program
 - Offers a fast-track interconnection process for interested customers and contractors
 - Remote Meter Configuration
 - Unauthorized reverse power flow management
 - Automated municipal electrical inspection releases that result in instantaneous interconnection approvals
 - SDG&E received a US Patent on DIIS software in April 2017

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6. Workpapers for 9 of the 19 electric distribution IT projects include the following statement regarding the forecast methodology: “project is currently in-flight. Based on actual timeline of the project to complete.” Please respond to the following questions regarding this statement:

- a. Is it correct that “in-flight” means the project and a budget have been authorized by SDG&E review teams, and that work orders have been issued? If not, please explain.
- b. How does this statement support the quantified forecasts for each project?
- c. How does this statement, and the workpapers overall for these projects, allow the CPUC and parties to determine if SDG&E’s forecasts are reasonable?
- d. Does SDG&E have supporting documents, including detailed cost estimates and other analysis, showing how these forecasts were derived? If so, provide the name of these supporting documents.

SDG&E Response 06:

- a. Yes, that is correct. Those projects that are “in-flight” are approved and work orders have been issued.
- b. The forecast is based on the timeline and resources needed for the project to complete.
- c. IT forecasts were developed based on input from subject matter experts in the various IT disciplines. Those individuals developed Test Year spending levels based on current demands along with anticipated changes given their knowledge of their respective areas. As with any forecast or estimate, final results may go up or down from anticipated levels based on unforeseen events or changes in assumptions.
- d. Please refer to the testimony of SDG&E IT witness Mr. Olmsted (Ex. SDG&E-24) for discussions on the Capital Forecast Methodology.

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7. Provide the CPD (capital budget documentation) and WOA (work order authorization) and any other evidence supporting SDG&E's forecast expenditures, including all documents listed in response to question 6 above, for the following in-flight projects:
- a. 813A,
 - b. 833M,
 - c. 14860A.

SDG&E Response 07:

Capital budget/project documentation (CPD) is not created for all IT capital projects. Please refer to the Capital workpapers of the SDG&E witness Mr. Olmsted (Ex. SDG&E-24-CWP) for project details.

The WOA forms provided in the responses below have been redacted to remove non-responsive, non-relevant customer and employee information. The cost information highlighted in yellow in the document is **Confidential Pursuant to P.U. Code Section 583 & General Order GO 66-D and D.17-09-023, and is accompanied by supporting declaration.**

- a. Please see the accompanying Work Order Authorization (WOA) for 813A.
- b. This is a new project, therefore the WOA is not yet available.
- c. Please see the accompanying WOA for 14860A. Note that the WOA reflects a different budget code. The assigned budget code was changed when another work order was requested.

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8. Workpapers for 10 of the 19 electric distribution IT projects include the following statement regarding the forecast methodology: “based on Project Manager and Subject Matter Expert estimates.” Please respond to the following questions regarding this statement:

- a. How does this statement support the quantified forecasts for each project?
- b. How does this statement, and the workpapers overall for these projects, allow the CPUC and parties to determine if SDG&E’s forecasts are reasonable?
- c. Does SDG&E have supporting documents, including detailed cost estimates and other analysis, showing how these forecasts were derived? If so, provide the name of these supporting documents.

SDG&E Response 08:

- a. The project manager and Subject Matter Expert (SME) provide estimates as to the forecasted costs to complete a project.
- b. IT forecasts were developed based on input from subject matter experts in the various IT disciplines. Those individuals developed Test Year spending levels based on current demands along with anticipated changes given their knowledge of their respective areas. As with any forecast or estimate, final results may go up or down from anticipated levels based on unforeseen events or changes in assumptions.
- c. Please refer to the testimony of SDG&E IT witness Mr. Olmsted (Ex. SDG&E-24) for discussions on the Capital Forecast Methodology.

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9. Provide the CPD (capital budget documentation) and WOA (work order authorization) and any other evidence support for SDG&E's forecast expenditures, including all documents listed in response to question 8 above, for the following projects:

- a. 833D,
- b. 833J,
- c. 834I.

SDG&E Response 09:

Capital budget/project documentation (CPD) is not created for all IT capital projects. Please refer to the Capital workpapers of the SDG&E witness Mr. Olmsted (Ex. SDG&E-24-CWP) for project details.

- a. This is a new project, therefore the WOA is not yet available.
- b. This is a new project, therefore the WOA is not yet available.
- c. This is a new project, therefore the WOA is not yet available.

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10. The Exhibit SDG&E-24 workpapers for the 19 projects listed in Category J (Electric Distribution) include no recorded expenditures for any of the projects. Were any of these projects initiated under a different budget code? If so:

- a. Provide the prior budget code and the corresponding new budget code(s),
- b. Provide the recorded costs for 2012-2016 each related project,
- c. Provide a narrative description explaining the need to transition the project to a new budget code,
- d. Provide the date that the prior budget code was closed with respect to collecting new expenditures. If the prior budget has not been closed, explain how work is assigned between the new and prior budget codes.

SDG&E Response 10:

- a. These projects were not initiated under a different budget code.
- b. See below recorded costs for those projects with costs from 2012-2016.

Wp #	WP Name	2012	2013	2014	2015	2016
813G	T13004 TRANS & SUBSTN INTEGRATION (TSPI)	-	-	-	2,388,207	1,041,492
14860A	T14860 DISTRIBUTED ENERGY RESOURCE MGMT (DERMS)	-	-	56,986	775,200	29,305
833F	T15067 POWERWORKZ UPGRADE	-	-	-	65,993	1,340,812
813C	T16029 DIIS PHASE 4	-	-	-	-	278,613
813B	T16035 CMP SAP ENHANCEMENT	-	-	-	-	424,795
813A	T16045 CPD ENHANCEMENTS PHASE 3	-	-	-	-	2,419,336
829A	T16050 SDGE ENHANCED MOBILE COMMAND TRAILER	-	-	-	-	306,004
829B	T16055 EMERGENCY FIELD COMMUNICATION SERVICES	-	-	-	-	215,740
833M	T17003 FoF - ET & Substation Project Lifecycle	-	-	-	-	-
3851E	T19002 FoF - TSPI Phase 3	-	-	-	-	-
813F	T19011 Patrol Inspection Automation for Mandated Corrective Maintenance Program (CMP)	-	-	-	-	-
834I	T19014 SDGE FAN Voice and Dispatch	-	-	-	-	-
833D	T19016 Modernizing Outage Reporting (MOR)	-	-	-	-	-
833I	T19022 Electric GIS 2017 Enhancements	-	-	-	-	-
833J	T19023 CPD Enhancement Phase 4	-	-	-	-	-
833K	T19024 Electric GIS 2018 Enhancements	-	-	-	-	-
03852A	T19032 FoF - Unmanned Aerial System (UAS) Analytics	-	-	-	-	-
3851C	T19033 FoF - Engineering Project Lifecycle	-	-	-	-	-
3851A	T19035 FoF - Business Process Management (BPM) Automation	-	-	-	-	-
Total		-	-	56,986	3,229,399	6,056,096

- c. Not applicable.
- d. Not applicable.

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11. Exhibit SDG&E-14 refers to budget code “008341I” at page AFC-160. Please confirm that this is a typographical error and that the correct code is “00834I,” or provide a page reference to this program in Ex. SDG&E-24 testimony and workpapers.

SDG&E Response 11:

This is a typographical error and the correct budget code is ‘00834I’.

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12. Exhibit SDG&E-24 workpapers for IT projects sponsored by electric distribution include a code in the “workpaper detail” line, for example “T19032” on page 528. Provide the following regarding these codes:

- a. SDG&E’s name for these codes,
- b. Do the characters in the code reveal information about the project? If so, describe in lay-terms how to read the codes,
- c. Describe how these numbers are assigned to projects,
- d. Describe when in the capital budgeting or IT planning process these numbers assigned to projects.

SDG&E Response 12:

- a. This is a project ID assigned by the capital planner in the IT division.
- b. The ‘T’ is a letter chosen due to the project being an IT project. The first two numbers are the last two digits of the TY2019. The last three numbers are simply a sequentially assigned value in numeric order.
- c. The project ID is assigned by the planner
- d. The project ID is assigned when the WOA is created

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13. The Exhibit SDG&E-19-CWP table of contents, from SDG&E's TY2016 GRC, includes a code between the budget code and the project description, for example "PT 14044" for budget code 00833L for the Powerworkz upgrade. Regarding this code:

- a. Provide SDG&E's name for this code,
- b. Describe the purpose and use of this code,
- c. Do the characters in the code reveal information about the project? If so, describe in lay-terms how to read the codes,
- d. Explain why these codes are not provided in the current TY 2019 application.
- e. If these codes are used for projects other than IT projects, please explain the scope of their usage.
- f. Explain the differences between these codes and the codes discussed in question 12 above, including but not limited to why the "P" appears to have been omitted in the TY 2019 workpapers.

SDG&E Response 13:

- a. This was a project ID assigned by the planner.
- b. It was used to identify that it is an IT project.
- c. The 'T' is a letter chosen due to the project being an IT project. The first two numbers were typically when the project was estimated to start; however, this was not always the case. The last three numbers are in numerical order.
- d. In the TY2016 GRC, the 'P', which signifies Parent project, and was included by the lead GRC planner. It is excluded in the TY2019 because it is not needed as an identifier given the nature of the projects.
- e. These project ID's are only used by IT.
- f. Please see response to 13.d.