

**ORA DATA REQUEST
 ORA-SCG-105-CY3
 SOCALGAS 2019 GRC – A.17-10-008
 SOCALGAS RESPONSE
 DATE RECEIVED: JANUARY 29, 2018
 DATE RESPONDED: FEBRUARY 9, 2018**

Exhibit Reference: SCG-21

SCG Witness: Lisa Alexander

Subject: Customer Services-Technologies, Policies & Solutions

Please provide the following:

1. Referring to Ex. SCG-21, page LLA-15, Table LLA-9, for each Sub-Program line item, please provide the recorded 2012-2016 costs in the same format.

SoCalGas Response 1:

The sub-program line items shown in Table LLA-9 on page LLA-15 are developed as part of the zero-based forecast for the refundable O&M RD&D program described in the prepared direct testimony of Lisa Alexander Exhibit SCG-21, including Appendix B, “Technology Needs Assessment Summary.” These sub-program categories change over time as certain technologies are developed to maturity and new needs and technology gaps are identified. Past sub-programs do not match the sub-programs identified in Table LLA-9, so historical costs cannot be provided in the same sub-program line item format. We do, however, track projects according to Program Area and those costs are reported here.

**RD&D Historical Adjusted-Recorded
 In Thousands of 2016 Dollars**

Program	2012	2013	2014	2015	2016
Customer End-Use Application	1,422	1,027	1,709	2,322	2,059
Clean Generation	1,169	1,391	764	738	522
Clean Transportation	1,055	1,130	1,508	1,826	2,040
Gas Operations	2,894	2,477	2,553	3,604	3,308
Low Carbon Resources	2,007	2,300	2,163	4,729	2,714
Totals	8,547	8,325	8,696	13,219	10,643