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7-11-17
04:59 PM

Date	Issue	Description	Hours
10/14/15	GP	Read, Review, Initial Analysis: GRC Estimates re Customer Engagement, Real Estate	2.00
10/14/15	GP	Read, Review, Initial Analysis: GRC Estimates re Energy Procurement	1.80
10/16/15	GDST	Read, Review, Initial Analysis: GRC Working Papers-Leak Mgmt.	1.00
10/20/15	GP	Read, Review, Initial Analysis: GRC Estimates re Emergency Preparedness	2.50
10/20/15	GP	Read, Review, Initial Analysis: GRC Working Papers Vegetation Mgmt	1.50
10/20/15	GP	Read, Review, Initial Analysis: GRC Working Papers	1.00
10/20/15	GP	Read, Review, Initial Analysis: GRC Estimates re Pole Asset Mgmt, Distribution Automation	1.50
10/21/15	INSL	Read, Review, Initial Analysis: GRC Estimates Safety Dept, OSHA	4.00
10/22/15	GP	Read, Review, Initial Analysis: GRC Estimates A&G	1.30
10/22/15	GP	Read, Review, Initial Analysis: GRC WP 3-1,4-1,6-7,7-12 Estimates	2.30
10/22/15	GP	Read, Review, Initial Analysis: Typical Bill Impacts vs Household Ys	0.70
10/22/15	GP	GRC re Productivity Gains, Safety Dept.Budget	2.00
10/23/15	GP	GRC draft DR1, ver.1	2.00
10/28/15	GP	GRC draft DR1, ver.2--add "Levelized Costs"	1.00
10/28/15	GP	GRC draft DR1, ver.2--add "Levelized Costs","Elect.Dist.Mtce.," "SharedSvces"	4.10
10/29/15	GDST	Read, Review, Initial Analysis: GRC Estimates re Picarro Survey Program	2.08
10/29/15	GP	GRC draft DR1, ver.2--add "Elect.Dist.Mtce.," "SharedSvces"	1.00
10/29/15	GP	Read, Review, Initial Analysis: 2014 GRC RR Forecasts, Tables 1-4	0.50
10/30/15	GDST	Read, Review, Initial Analysis: GRC WP Ests re Leak Mgmt,Emergencies	2.33
10/30/15	INSL	Read, Review, Initial Analysis: GRC Ests re Insurance,Third-Party Damages	2.90
10/31/15	GDST	GRC draft DR1, ver.3--add "Picarro",	1.67
11/02/15	GDST	Read, Review, Initial Analysis: GRC re Gas Dist. Corrective Mtce FERC 892	0.67
11/02/15	GDST	Read, Review, Initial Analysis: : TURN Testimony Re Picarro, DIMP fm 2014 GRC; PGE Violations Investigation OII	0.58
11/02/15	INSL	Read, Review, Initial Analysis: GRC re Insurance Expenses, Shareholder Liabilities	0.30
11/03/15	GP	Read, Review, Initial Analysis: GRC re Shared Svces Exp.	1.20
11/03/15	GP	Read, Review, Initial Analysis: GRC re Balancing Accounts	0.50
11/03/15	GP	Read, Review, Initial Analysis: GRC and Form 10K re Interest Expenses	0.90
11/03/15	GP	Read, Review, Initial Analysis: GRC re Manage Svce Inquiries Expenses	1.40
11/03/15	INSL	Read, Review, Initial Analysis: GRC re Insurance and Risk Management Expenses	0.60
11/03/15	INSL	Read, Review, Initial Analysis: GRC re Injuries and Damages Estimates	0.90
11/04/15	GP	Read, Review, Initial Analysis: GRC re Safety Eng. & OSHA Compliance Exp.	1.50
11/04/15	GP	Read, Review, Initial Analysis: GRC re Cust. Field Svce Work Exp	2.40
11/04/15	GP	Read, Review, Initial Analysis: GRC re Cust. Field Svce Work Exp (cont)	0.60
11/04/15	GP	Re-visit GRC re Wokers Compensation Exps	1.00
11/05/15	GP	Read, Review, Initial Analysis: GRC and Form 10K re O&M,Deprec.Exp	0.60
11/06/15	GP	Read, Review, Initial Analysis: GRC re Project Estimating Tool (PET)	2.00
11/06/15	GP	Read, Review, Initial Analysis: GRC re Cust. Care - Complaints, CSOs	1.40
11/06/15	GP	Read, Review, Initial Analysis: GRC re Cust. Care - Safety Net Prog. Reports	0.30

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
11/06/15	GP	Read, Review, Initial Analysis: GRC re Cust. Care - KPMG Report	1.00
11/12/15	GDST	Read, Review, Initial Analysis: GRC re Corrective vs Preventive Mtce	1.50
11/12/15	GP	Read, Review, Initial Analysis: GRC re Hydro Ops-Manage Bldgs	1.80
11/12/15	GP	Read, Review, Initial Analysis: GRC re Manage Var Bal Acct Processes	0.20
11/12/15	GP	Read, Review, Initial Analysis: GRC re Lic. Compliance-Hydro Generation	0.50
11/12/15	GP	Read, Review, Initial Analysis: GRC re Escalation	0.80
11/12/15	GP	Research Z-Factor Mechanism	0.90
11/13/15	GP	Read, Review, Initial Analysis: GRC re Escalation	2.00
11/13/15	GP	Edit GRC draft DR1, ver.8	0.40
11/13/15	GP	Read, Review, Initial Analysis: GRC re Perf. Measurement & Incentives	0.60
11/14/15	GP	Read, Review, Initial Analysis: PG&E SEC Filings re Stock Options, LTI, STI	1.00
11/15/15	GP	Read, Review, Initial Analysis: PG&E SEC Filings re Debt, OE, Share Price	1.40
11/16/15	GP	Read, Review, Initial Analysis: PG&E SEC Filings re Debt, OE, Share Price	0.20
11/17/15	GP	Read, Review, Initial Analysis: GRC re Attrition, Escalation, & Inflation	0.70
11/18/15	GP	Research: CPUC PTY Rate-Making Decisions	1.20
11/18/15	GP	Read, Review, Initial Analysis: GRC re Interest and Bank Fee Exp.	0.50
11/19/15	GP	Read, Review, Initial Analysis: GRC re Rate Base Estimates	1.30
11/20/15	GP	Read, Review, Initial Analysis: GRC re Asset Age vs Project Prioritisation	2.20
11/20/15	GP	Read, Review, Initial Analysis: GRC re Accts & Energy Consumption Ests	1.70
11/20/15	GP	Read, Review, Initial Analysis: GRC re Illustrative Residential Rates LRMC, CARE	1.00
11/24/15	GDST	Read, Review, Initial Analysis: GRC re Leak Find Rate vs. Ttl Leaks	2.42
11/24/15	GP	Read, Review, Initial Analysis: GRC re Compliance Items	1.00
11/25/15	GDST	Read, Review, Initial Analysis: GRC re Leak Survey Cycle Impacts	2.75
11/25/15	GP	Read, Review, Initial Analysis: GRC re Compliance Items	1.00
11/25/15	GP	Read, Review, Initial Analysis: GRC re Investment Risk	2.30
11/25/15	GP	Read, Review, Initial Analysis: GRC re Customer Outreach-Switching vs Price	1.00
11/26/15	GP	Read, Review, Initial Analysis: GRC re Customer Outreach-Switching vs Price	2.50
11/28/15	GP	Read, Review, Initial Analysis: GRC re Purchasing & Materials Mgmt	1.40
11/28/15	GP	Read, Review, Initial Analysis: GRC re STIP, Budgeting	2.50
12/10/15	GP	Review CPUC - New FERC Rules for ROE,ROR	1.60
12/10/15	GP	Read, Review, Initial Analysis: GRC -2014 ROE Results, 2015-2017 Projections	1.00
12/10/15	GP	Read, Review, Initial Analysis: GRC re Dividend, Available Residual Income	0.40
12/11/15	ESCL	Review: GRC DR#1,A02	0.60
12/11/15	GDST	Review: GRC DR#1,A06	0.20
12/11/15	GP	Review: GRC DR#1,A08	1.50
12/11/15	ESCL	Review: GRC DR#1,A10	0.60
12/11/15	ESCL	Review: GRC DR#1,A16	0.30
12/11/15	ESCL	Review: GRC DR#1,A17	0.10
12/11/15	GDST	Review: GRC DR#1,A14	0.60
12/11/15	GDST	Review: GRC DR#1,A38	0.10
12/11/15	GDST	Review: GRC DR#1,A39	0.10
12/11/15	GP	Review: GRC DR#1,A32	0.10

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
12/11/15	GP	Review: GRC DR#1,A33	0.10
12/11/15	ELRE	Review: GRC DR#1,A34	0.10
12/11/15	ELRE	Review: GRC DR#1,A34 XLS File	1.00
12/11/15	GP	Review: GRC DR#1,A35	0.20
12/11/15	GP	Review: GRC DR#1,A24	0.10
12/11/15	INSL	Research: BLS Insurance PPI Series	0.50
12/11/15	INSL	Review: GRC DR#1,A16; 2014 GRC Decision re Insurance	0.60
12/12/15	ESCL	Review: GRC DR#1,A15	0.70
12/12/15	ESCL	Review: GRC DR#1,A15-RR Growth Rates	1.20
12/12/15	GP	Review: GRC DR#1,A30	0.40
12/15/15	INSL	Research: Utility Liability Insurance Expenses-Other Jurisdictions, Companies	2.00
12/16/15	INSL	Research: Utility Liability Insurance Expenses-Other Jurisdictions, Companies	0.50
12/16/15	INSL	Review: Towers, Willis Insurance Industry Reports	0.60
12/16/15	INSL	Review: Fitch re Ratings of Utility Insurance	0.50
12/16/15	INSL	Research: BLS PPI re Insurance - Call to DC	0.10
12/16/15	INSL	Research: BLS PPI Non-Auto Liability monthly Δ s	0.60
12/16/15	INSL	Review: AEGIS surplus vs PGE paid premiums	1.40
12/16/15	INSL	Review: Bohnert et al re Premium Inflation	0.80
12/17/15	GP	Review: GRC Summary Exhibits-Exp. Tables	0.90
12/17/15	GP	Research: Utility Cost Structure Comparisons	0.90
12/17/15	GP	Research: Utility Cost per kWh Comparisons	1.70
12/18/15	GP	Review: GRC DR#1,A18	2.30
12/18/15	GP	Review: GRC DR#1,A19	0.50
12/18/15	GDST	Review: GRC DR#1,A05, A07	0.10
12/18/15	GP	Review: GRC DR#1,A31	1.00
12/23/15	GP	Review: GRC DR#2,A01	0.40
12/23/15	GDST	Review: GRC DR#2,A11	0.40
12/29/15	GP	Review: GRC DR#2,A06	0.30
12/29/15	GP	Review: GRC DR#2,A10	0.20
12/30/15	GP	Research: Customer Care Ops, Compensation	0.80
12/30/15	GP	Research: Call Center Compensation & Trends	1.50
12/30/15	INSL	Analysis: FRB Liability Prem Trends	1.92
12/30/15	INSL	Analysis: PGE Liability Ins Attrition Estimates vs FRB Trend	2.00
12/30/15	INSL	Analysis: Attachment Point Changes for Liability Insurers-Factors Affecting	2.00
01/04/16	INDO	Research: GRC re Director & Officer Insurance Funding	0.92
01/05/16	INDO	Research: D&O, Liability Trends for Util. Ind.	1.08
01/11/16	INSL	Write DRs for Liability Coverage	0.33
01/11/16	INSP	Analysis: 2017 vs 2014 GRC re Property Insurance Expenditures	1.50
01/11/16	INSP	Write DRs for Property Insurance Differentials	0.25
01/12/16	ELRE	Research: Munasinghe Paper re Determining Optimal Reliability Levels via Economic Analysis	0.83
01/12/16	GDST	Research & Analysis: GRC Figures & DR Response for Unaccounted for Gas Estimates and Picarro-related Savings	0.33
01/13/16	ELRE	Analysis & Write DRs: Risk Register Estimates re Excavation Damage Freq, Cost, Liability	1.17
01/13/16	GDST	Analysis: Convert pre-2009 PHMSA PG&E Data, Compare with PG&E post-2009 Incident Reports	1.17
01/13/16	GDST	Research: PHMSA Data re PG&E Historical Incident Reports	1.25
01/13/16	GDST	Research: PHMSA Integrity Mgmt Progs; Gas Dist Leaks Statistics re Causal Factors	1.33
01/13/16	GDST	Research: PHMSA re Expected Service Life, Gas Distribution Pipes, Lines by Type	0.33
01/13/16	INSL	Research & Analysis: Risk Register Estimates re Excavation Damage Freq, Cost, Liability	1.00

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
01/13/16	INSL	Analysis & Write DRs: Risk Register Estimates re Excavation Damage Freq, Cost, Liability	1.17
01/14/16	GDST	Analysis: Convert pre-2009 PHMSA PG&E Data, Compare with PG&E post-2009 Incident Reports	1.00
01/15/16	GDST	Analysis: PHMSA Sec191 Records re Unaccounted for Gas vs Leak History per DRs	1.92
01/15/16	GDST	Analysis: PG&E Depreciation Study vs PHMSA Sec191 Records for Svce Life Trend	1.83
01/15/16	GDST	Research: PHMSA Sec191 Records, Henry Hub rates for valuation of Unaccounted For Costs	0.58
01/20/16	GDST	Analysis: PHMSA Reports re System Mains, Svces, Vintage Changes since 2004	0.58
01/20/16	GDST	Research & Analysis: PGE Budget Report Consistency vs GRC 'Actuals', Forecasts Gas Dist Corrective, Preventive Mtce Exp	2.00
01/21/16	GDST	Analysis: Gas Dist Leak Forecast vs Budget Report & PHMSA Sec151 Leak Records	1.50
01/21/16	GDST	Analysis: PG&E Gas Dist System - Corrective Mtce Causal Factors vs System Components Changes	1.17
01/21/16	GDST	Analysis: PG&E Gas Dist System - Corrective Mtce Exo Impact on Asset Useful Life, Depreciation	0.75
01/21/16	GDST	Research: 2014 GRC Decision re Preventive, Corrective Mtce-Gas Dist	0.42
01/26/16	GDST	Research & Analysis: NTSB HCA Pipeline IM Safety Study, vs PGE17 Testimony re Routine vs Corrective Mtce	2.17
01/26/16	GDST	Research & Analysis: PGE17 Testimony re Cathodic Protection, PHMSA Report Data re Routine vs Corrective Mtce	2.00
01/26/16	GDST	Research & Analysis: PGE17 Testimony re Inspection Interval & Condition; Defn re "Quality" "Consequence" vs NTSB/PHMSA "HCAs"	1.42
01/26/16	GDST	Research & Analysis: PGE17 Testimony re Inspection Interval & Condition vs Risk, NTSB Safety Recommendations	1.42
01/27/16	GDST	Research & Analysis: PGE Responses to TURN DRs re Gas Dist. 'Corrective Mtce' Expenses	0.42
01/27/16	GDST	Research & Analysis: PGE17 Testimony re Inspection Interval & Condition; Defn re "Quality" "Consequence" vs NTSB/PHMSA "HCAs"	0.83
01/27/16	GDST	Research: US Code & NTSB Definitions of 'Corrective' Actions, Mtce	1.83
01/27/16	INSL	Analysis: CFC Issues List - \$ Valuations per Issue: Liability Insurance	0.33
01/28/16	GDST	Research & Analysis: PGE17 Testimony re Mapping Aging Project vs MWC 'GF' Historical costs, vs Risk Mitigation Stds.	1.58
01/29/16	GDST	Analysis & Write DR: Picarro Surveyor & Leak Mgmt Model Estimates	0.33
01/29/16	GDST	Analysis & Write DR: Picarro Surveyor Impact on Annual Leak Find Rate, and Cost Backwardation	4.00
01/29/16	GDST	Analysis: Comparison of PHMSA Sec151 Reports vs Leak Mgmt Model Figures & Forecast	1.83
01/29/16	GDST	Analysis: PGE 3 re Leak Forecast and Repair Plan - Examination for Cost Shifting (Backwardation)	0.67
01/29/16	GDST	Research & Analysis: NTSB, EU Optimal Maintenance Models vs Hist PG&E Mtce Practices and Pattern of Non-Labor Exp.	1.25
01/29/16	GDST	Research: NTSB Best Practices re Leak Mgmt	1.17
01/30/16	ELRE	Research & Analysis: Mains, Svces Reliability Mtce - Replacement Costs Forecast vs Hist. PGE Trend. Materials PPI, Unit Cost Errata Update Filing	0.92
01/30/16	GDST	Analysis & Write DRs: Leak Mgmt Model Unit Costs - Assumed Efficiencies in, vs Trends in Materials, Labor	1.75
01/30/16	GDST	Research & Analysis: Std Accting Treatment of Materials Costs, vs Trend Calculation in Leak Mgmt Model	1.33

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
02/02/16	GDST	Research & Analysis: PGE17 Testimony re Gas Distribution 'Std's of Care', vs NTSB, PHMSA Reporting Requirements	0.75
02/02/16	GDST	Research & Analysis: PGE17 Testimony re Gas Distribution 'Std's of Care', vs NTSB, PHMSA Reporting Requirements, Fed. Register Issue History	3.33
02/03/16	GDST	Analysis & Write DRs: Gas Dist Costs & Escalation vs Risk Register re Incorrect Operations & PHMSA Stats on Hazardous Leak Causes vs CFR Requirements	0.67
02/03/16	GDST	Analysis & Write DRs: Non-Labor Gas Dist Cost Growth - Relationship to PHMSA Reportable Causes, Cust. Growth; Escalation	0.83
02/03/16	GDST	Analysis: Non-Labor Gas Dist Cost Growth - Relationship to PHMSA Reportable Causes, Cust. Growth; Escalation	1.75
02/03/16	GDST	Research & Analysis: Gas Dist Mtce Categorisations: Routine, Preventive, vs Corrective; NTSB Defns; GRC Leak Forecast	3.00
02/03/16	GDST	Research & Analysis: PGE17 Testimony re Gas Distribution 'Std's of Care', vs NTSB, PHMSA Reporting Requirements, Fed. Register Issue History	0.33
02/04/16	GDST	Analysis & Write DRs: Gas Dist Leak Mgmt Cost Est's - Corrective vs Preventive/Routine Causes	2.33
02/04/16	GDST	Research & Analysis: Gas Dist Mtce Categorisations: Routine, Preventive, vs Corrective; NTSB Defns; GRC Leak Forecast	2.50
02/04/16	GDST	Research & Analysis: PGE17 re DIMP-Incorrect Ops vs Future Leaks/Mi. vs NARUC Funding Initiatives/ NAPS R Compendium	1.42
02/05/16	GDST	Analysis & Write DRs: Leak Causes - Controllable/Company vs Outside/Uncontrollable, Sec 191 Rpt Data	0.25
02/05/16	GDST	Research & Analysis: Re-Allocation of Leak Repair Costs By Controllability	1.00
02/05/16	GDST	Research & Analysis: Total Leak Repairs & Outstanding Leaks - Reported vs Modeled	1.83
02/06/16	GDST	Research & Analysis: PGE Corrosion & Other Controllable Leak Performance vs National, CA Utility Averages	5.75
02/06/16	GDST	Research & Analysis: PGE17 Testimony re Threats; PHMSA Report Requirements re Incorrect Operations	0.75
02/09/16	INSL	Analysis: Liability Insurance Expense Issue - Summary Memo for Discussion	0.25
02/10/16	ELRE	Research & Analysis: Freeman Sullivan re Valuation of Outages - Svce Level Equality Calculation; Reliability CBA Calculation	1.00
02/11/16	ELRE	Research & Analysis: PGE3,WP4-56 Reliability Service Replacement Program	0.83
02/11/16	INDO	Research & Analysis: D&O Insurance, Previous Yrs Exp vs 2014 GRC Decision	1.33
02/12/16	ELRE	Research & Analysis: Distribution Reliability Replacement Capital Plan	2.58
02/17/16	GDST	Research & Analysis: PSEP Program Decision re Corrective vs Preventive Maintenance	1.08
02/17/16	GDST	Research & Analysis: Re-visit GRC and Previous Decisions re Leak Find Rate Directives	0.17
02/17/16	GDST	Research & Analysis: San Bruno Penalty & Funding For System Corrective Maintenance; Pipeline Safety Act Requirements re IM	5.08
02/18/16	GDST	Research & Analysis: NTSB San Bruno Report & CPUC PSEP Decision re Performance-Based Risk Mgmt; Safety Recommendation P-11-22 Compliance	1.58
02/18/16	GDST	Research & Analysis: PWC Study re Leak Find Rate Best Practices	2.00
02/19/16	GDST	Research & Analysis: Leak Management Budget-HPR Replacement Program	0.83
02/19/16	GDST	Research: 2014 GRC Decision re DIMP Program, Leak Management Performance Measurement, GD Asset Replacement Strategy	2.58

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
02/24/16	GDST	Analysis & Write DR: Update DR#5 draft; Questions re IT, Leak Mgmt; DR#2 and DR#3 follow-ups; Exhibit References, graphics, etc.	0.50
02/25/16	GDST	Analysis & Write DR: Update DR#5 draft; Questions re IT, Leak Mgmt; DR#2 and DR#3 follow-ups; Exhibit References, graphics, etc.	3.42
02/26/16	GDST	Analysis & Write DR: Update DR#5 draft; Qs re Safety Metrics vs NTSB Threat Mitigation Recommendations, CPUC Safety Policy	1.58
03/02/16	GDST	Analysis & Write DR: Update DR#5 draft; Qs re CP Re-Survey vs 3rd Party Property Impingement Cost Recovery	1.08
03/02/16	INSP	Analysis & Write DR: Update DR#5 draft; Qs re CP Re-Survey vs 3rd Party Property Impingement Cost Recovery	1.08
03/03/16	GDST	Research & Analysis: PGE18 Updates re Leak Mgmt Forecast Model Revisions	2.25
03/04/16	INSL	Research & Analysis & Write DR: TowersWatson Report on Liability Insurance Trends; Update DR#5 re Excess Liability Insurance Costs	2.33
03/09/16	INSL	Research & Analysis: Review DR#3 Responses; Write Follow-up DR questions - Excess Liability Insurance, Insurance Recoveries	0.92
03/09/16	INSL	Research & Analysis: Review DR#3 Responses; Write Follow-up DR questions - Excess Liability Insurance, Insurance Recoveries, Unaccounted-For Gas	3.42
03/09/16	INSP	Research & Analysis: Review DR#3 Responses; Write Follow-up DR questions - Property Insurance	1.00
03/10/16	INSP	Research & Analysis: Review DR#3 Responses; Write Follow-up DR questions - Property Insurance	0.33
03/11/16	ELRE	Research & Analysis: Review DoE/Lawrence & Nexant/Freeman Sullivan Research re VoS of Elect. Reliability	0.58
03/11/16	ELRE	Research & Analysis & Write DRs: Review DoE/Lawrence & Nexant/Freeman Sullivan Research re VoS of Elect. Reliability	1.33
03/11/16	INSP	Research & Analysis: Property Tax Adjustment for Δ Assets, Δ Asset Prices	2.00
03/15/16	INSP	Research & Analysis & Write DRs: PGE-19 re Property Insurance, DR3Q08 Clarifications, Estimate Growth % of Total Proposed Installations	2.58
03/16/16	ELRE	Research & Analysis: EXAMINE PGE VOS CALCULATOR MODEL, Sensitivity Test Parameter Selections; PGE Dist. Reliability Objectives, Reports, Metrics PPT	0.75
03/17/16	ELRE	Research & Analysis: EXAMINE PGE VOS CALCULATOR MODEL, Sensitivity Test Parameter Selections; PGE Dist. Reliability Objectives, Reports, Metrics PPT	0.58
03/17/16	ELRE	Research & Analysis: Cornerstone Reliability Decision re EDO Planning and Returns on Reinforcement; EXAMINE PGE VOS CALCULATOR MODEL	2.00
03/25/16	INSL	Research & Analysis & Write Testimony: Liability Insurance Expenses	1.33
03/25/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - Resolve Table 3-4 w/ WP Table 3-82	1.00
03/25/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs General Liability Coverage Trend	1.42
03/25/16	INSP	Research & Analysis: Property Value Appreciation in PGE Service Area - FHFA Data	1.75
03/26/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs General Liability Coverage Trend	1.75
03/26/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs Property Coverage as Base Trend	3.75
03/26/16	INSP	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs Property Coverage as Base Trend	3.75

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
03/29/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs Property Coverage as Base Trend	1.50
03/29/16	INSP	Research & Analysis & Write Testimony: Liability Insurance - PGE Forecast vs Property Coverage as Base Trend	1.50
03/30/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - Review DR Responses to Other Intervenors	0.42
03/30/16	INSL	Research & Analysis & Write Testimony: Insurance Costs - Excess Liability - Cyber Security Component	2.67
03/30/16	INSL	Research & Analysis & Write DRs: Insurance Costs - Excess Liability - Cyber Security Component, "Cyber Gap" Coverage	7.33
03/31/16	GDST	Research & Analysis: DR5,Q04 re Dig-In Damage Incidents/Sq.Mi. vs Division Area Incomes	0.58
03/31/16	INSL	Research & Analysis & Write Testimony: Liability Insurance - Cyber Risk and CL380	0.83
03/31/16	INSP	Research & Analysis & Write Testimony: Property Insurance	2.00
04/01/16	INSL	Research & Analysis: Use of Archived Testimony; Cyber Risk Insurance (Towers-Watson)	0.25
04/01/16	INSL	Research & Analysis: Discuss Cyber Risk Insurance w/ Towers Watson	0.75
04/01/16	INSP	Research & Analysis & Write Testimony: Property Insurance	0.67
04/01/16	INSP	Research & Analysis & Write Testimony: Property Insurance - Use of Property Values in Tax Calculation as Insurance Basis	6.33
04/02/16	GDST	Research & Analysis: Review Exhibits, DRs & Notes re Corrective vs Preventive Maintenance - Gas Distribution	2.83
04/02/16	INSP	Analysis & Write Testimony: Property Insurance - Use of Property Values in Tax Calculation as Insurance Basis	2.58
04/04/16	ELRE	Research & Analysis: Review Exhibits, DRs re Reliability Performance Forecasts vs VoS Model, Benefits per Division	1.00
04/04/16	ELRE	Analysis & Write DRs: Electric Distribution - Reliability Reports, Proposed Modification	0.83
04/04/16	GDST	Research & Analysis: Review Exhibits, DRs & Notes re Corrective vs Preventive Maintenance - Gas Distribution	0.50
04/05/16	GDST	Research & Analysis: Review Exhibits, Gas Dist. Corrective Maintenance Costs - Company-Controllable Factors	3.75
04/05/16	GDST	Research & Analysis: Review Exhibits, Gas Dist. Corrective Maintenance Costs - Company-Controllable Factors; Cost Causation	2.25
04/05/16	GDST	Research & Analysis: Review Exhibits, Gas Dist. Corrective Mtce - Company-Controllable Factors; Cost Causation; Leak Forecast Model, GLSRBA	3.17
04/06/16	GDST	Research & Analysis & Write Testimony: Gas Dist. Corrective Mtce - Cost Incidence	2.17
04/06/16	GDST	Research & Analysis: Gas Dist. Corrective Mtce Expense Pattern vs PCG Share Price	0.75
04/06/16	GDST	Research & Analysis: Review DR Responses to SED,ORA,TURN re Gas Dist. Corrective Mtce - Field Reports	1.92
04/06/16	GDST	Research & Analysis: Review Exhibits, Gas Dist. Corrective Mtce - Company-Controllable Factors; Cost Causation; Leak Forecast Model, GLSRBA	1.50
04/06/16	INSP	Write Testimony: Draft re Uncollectibles Expense (incl. Workpapers) & Property Insurance	1.00
04/07/16	ELRE	Research & Analysis: Reliability Expense Allocations vs VoS Model - Benefits per Division	3.00
04/07/16	ELRE	Research & Analysis: Reliability Expense Allocations - Alternative Methods Literature Survey, CPUC RIIM	1.00
04/07/16	GDST	Research & Analysis: Gas Dist. Corrective Mtce vs Dividends - KM Case Study	1.00
04/09/16	GDST	Research & Analysis: Gas Dist. Corrective Mtce vs Dividends - KM Case Study	0.92

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
04/12/16	GDST	Research & Analysis & Write Testimony: Gas Dist. Expense - Mapping Status vs CFR Location/Site Requirements; Mapping Corrections Reports	1.75
04/12/16	GDST	Research & Analysis & Write Testimony: Gas Dist. Expense - PHMSA Records For Annualized Repair Model vs Actual Repairs Pattern	1.67
04/13/16	ELRE	Research & Analysis: VOS Model - Linear Estimates for PV Weightings for Reliability Investment CBA	1.50
04/15/16	GDST	Analysis & Write Testimony: Gas Dist. Expense; Risk Register Scores by MWCs; PHMSA Reports re Leak Causes; GT&S Testimony	7.58
04/16/16	GDST	Analysis & Write Testimony: Gas Dist. Expense; Risk Register Scores by MWCs; PHMSA Reports re Leak Causes; GT&S Testimony	2.42
04/19/16	GDST	Write Testimony: Gas Dist. Expense - Corrective Maintenance	5.50
04/19/16	GDST	Write Testimony: Gas Dist. Expense - Corrective Maintenance; 2014 GRC Requirements re; Risk Register Leak Ratings	2.50
04/20/16	GDST	Write Testimony: Gas Dist. Expense - Corrective Maintenance; Commission Decisions re Planning Horizon, Leak Mgmt Optimisation	6.92
04/20/16	INDO	Write Testimony: Directors & Officers Liability Insurance Expense	1.67
04/20/16	INSL	Write Testimony: Directors & Officers Liability Insurance Expense	1.67
04/21/16	ELRE	Analysis & Write Testimony: Elect. Dist. Reliability Expense; VOS Model Structure - Consistency of Estimates	0.67
04/21/16	ELRE	Analysis & Write Testimony: Elect. Dist. Reliability Expense; Proposed Reliability Reports: D16.01.008	1.25
04/21/16	ELRE	Analysis & Write Testimony: Review DR#s 6,7,8 Responses; Elect. Dist. Reliability Expense; Proposed Reliability Reports	1.33
04/21/16	ELRE	Analysis & Write Testimony: Elect. Dist. Reliability Upgrade Expense; Project Prioritization Methods	5.08
04/22/16	ELRE	Analysis & Write Testimony: Elect. Dist. Reliability Upgrade Expense; Project Prioritization Methods	4.08
04/23/16	ELRE	Analysis & Write Testimony: Elect. Dist. Reliability Upgrade Expense; Project Prioritization Methods	3.08
04/23/16	INSL	Analysis & Write Testimony: Revise Liability Insurance Expenses Testimony	1.25
04/24/16	INSL	Analysis & Write Testimony: Revise Liability Insurance Expenses Testimony	5.08
04/24/16	INSP	Analysis & Write Testimony: Revise Property Insurance Expenses Testimony	4.00
04/26/16	GDST	Write Testimony: Revisions - Gas Dist. Leak Management / Corrective Mtce	2.50
04/26/16	INDO	Write Testimony: Revisions - Director & Officers Insurance	0.67
04/26/16	INSL	Write Testimony: Revisions - Liability Insurance	1.00
04/26/16	INSP	Write Testimony: Revisions - Property Insurance	3.83
04/27/16	GDST	Write Testimony: Revisions - Gas Leak Mgmt / Corrective Maintenance	3.67
04/27/16	INDO	Write Testimony: Revisions - Director & Officers Insurance	0.25
04/27/16	INSL	Write Testimony: Revisions - Liability Insurance; Property Insurance	1.00
04/27/16	INSP	Write Testimony: Revisions - Liability Insurance; Property Insurance	1.00
04/29/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	3.00
04/29/16	INSL	Write Testimony: Draft Workpapers re Liability Insurance	0.25
04/29/16	INSP	Write Testimony: Draft Workpapers re Property Insurance	0.92
04/30/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	7.83
05/03/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	1.50
05/04/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	6.67
05/05/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	13.33
05/06/16	GDST	Write Testimony: Draft Workpapers re Gas Leak Corrective Mtce	10.17
05/10/16	GDST	DR Response: Gas Leak Management & Corrective Maintenance	6.50

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
05/10/16	GDST	Research & Analysis & Write Testimony: Review PD re GT&S Case re Corrective Mtce	0.50
05/10/16	GDST	Write Testimony: Finalise Workpapers re Uncollectibles, Gas Leak Corrective Mtce	5.00
05/11/16	GDST	DR Response: Gas Leak Management & Corrective Maintenance	8.33
05/11/16	GDST	Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce, IT Project Capital Expenditures	2.00
05/12/16	GDST	DR Response: Gas Leak Management & Corrective Maintenance	10.00
05/12/16	GDST	Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce, IT Project Capital Expenditures	5.17
05/13/16	GDST	Analysis & Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce' "Deferred Mtce" definition from ASCE, Others, Cross-check PHMSA Data Files	15.00
05/13/16	GDST	Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce	0.83
05/13/16	GDST	Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce' "Deferred Mtce" definition from ASCE, Others	4.17
05/14/16	GDST	DR Response: Gas Leak Management & Corrective Maintenance; GLSRBA	9.00
05/16/16	GDST	Write Testimony: Finalise Workpapers re Gas Leak Corrective Mtce, Uncollectibles Expenses	4.33
05/17/16	GDST	DR Response: Finalise Workpapers re Gas Leak Corrective Mtce	1.67
05/18/16	GDST	DR Response: Gas Leak Management & Corrective Maintenance; GLSRBA	3.83
05/18/16	INSL	Write Testimony: Errata - Gas Dist. Leak Management / Corrective Mtce; Liability Insurance	1.50
05/19/16	GDST	DR Response: Gas Leak Mgmt & Corrective Maintenance; Deferred Maintenance Definition	8.17
05/19/16	INSL	Write Testimony: Errata - Gas Dist. Leak Management / Corrective Mtce; Liability Insurance	0.83
05/20/16	GDST	DR Response: Gas Leak Mgmt & Corrective Maintenance; Deferred Maintenance Definition	7.00
05/21/16	GDST	DR Response: Gas Leak Mgmt & Corrective Maintenance; Deferred Maintenance Definition	1.00
06/07/16	GDST	Research & Analysis: Repair/Replace Models; DIMP Program re Repair/Replace; Prob of Failure Models; Repair vs Replace Cost Estimates fm Leak Mgmt Model; Review Utility Leak Mgmt Bulletins	2.92
06/09/16	GDST	Research & Analysis: GT&S Case re \$850M Fine; PHMSA 7100 Report 2015	4.00

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
06/11/16	GDST	Research & Analysis: PHMSA Reports re 920 Mile Mains Transfer; PHMSA Communication re Other Category in Reporting	0.83
06/14/16	GDST	Analysis: Gas Distribution - Corrective Mtce Costs re-Distribution over GRC Term - Illustrative Example	2.83
06/14/16	GDST	Analysis: IT Project JCE Exhibit Reconciliation - Error Identification and Corrective Measures	3.75
06/15/16	GDST	Analysis: Gas Distribution - Corrective Mtce Costs re-Distribution over GRC Term - Illustrative Example	2.33
06/15/16	GDST	Research & Analysis: EPA Methods for Estimating Distribution System Leak Rate; IPCC re Emissions Estimating	2.08
06/15/16	GDST	Research & Analysis: PHMSA Stats on Minimum Leak Rate; Contact PHMSA re Leak Rate Benchmarking	2.83
06/16/16	GDST	Analysis: Gas Distribution - Corrective Mtce Costs re-Distribution over GRC Term - Illustrative Example	1.00
06/16/16	GDST	Research & Analysis: Communicate w/ PHMSA re Leak Mgmt Stds Coordination w/ EPA	1.67
06/17/16	INSL	Analysis & Write Cross Questions: Excess Liability Insurance	0.75
06/21/16	ELRE	Research & Analysis: Electric Dist. Reliability Test Model	1.00
06/21/16	INSL	Analysis & Write Cross Questions: Excess Liability Insurance; Review Underwriters on Arson Effect	0.58
06/22/16	INSL	Analysis & Write Cross Questions: Excess Liability Insurance; Review Underwriters on Arson Effect; Verisk 2015 Report on Insurance Industry Stats	1.92
06/22/16	INSP	Analysis & Write Cross Questions: Property Insurance	2.00
06/28/16	GDST	Research & Analysis: Leak Repair Management via ALARP; SED Paper re ALARP in Rate Cases	2.25
06/28/16	SN	Research & Analysis: Leak Repair Requirements from other CPUC Decisions, Impact on GRC Settlement Provisions	0.92
06/29/16	ELRE	Research & Analysis: Reliability-Based Pricing for Electricity; Pitfalls of Various Reliability Metrics	2.00
06/29/16	ELRE	Research & Analysis: PG&E Reliability Annual Reports vs New Report Requirements (D.16.01.008)	1.33
06/29/16	ELRE	Research & Analysis: Review PG&E Amended Version of CFC Elect. Dist. Reliability Proposal; Discuss w/ NJ	0.75
06/29/16	GDST	Research & Analysis: Leak Repair Management via ALARP; SED Paper re ALARP in Rate Cases	0.92
07/12/16	GDST	Research & Analysis: EPA Response to CFC Inquiry re Standard Gas Leak Remediation Assumptions; CFR §98 Leak Estimation Requirements	0.33
07/22/16	GDST	Research & Analysis: Follow-up w/ CPUC re Leak Reporting Requirements of SB-1371/R.15.01.008	3.33
07/22/16	SN	Research & Analysis: NERBA Account - Function and Suitability of, re Gas Leak Mgmt; NERBA Treatment in Sempra GRC	1.25
07/26/16	SN	Research & Analysis: Proposed NERBA Account for Settlement; TURN re Gas Leak Mgmt BPs	2.42
07/26/16	SN	Settlement Negotiation: NERBA Account - Proposed Article 4 Content	0.92
07/27/16	SN	Research, Analysis & Writing: Commentary re Settlement Proposal Disputed Issues - 2020; NERBA	2.17
07/29/16	SN	Research & Analysis: Proposed NERBA Account Compared to Introduction of Sempra NERBA	0.58
08/01/16	SN	Case Mgmt: Update re CFC Settlement Positions re 2020, NERBA	0.17
08/23/16	SN	Case Admin: Read & Analyse Submissions on Settlement Contested Issues (NERBA, 2020); Write comments for BN,NJ	0.75
08/24/16	SN	GRC: Case Admin: Settlement Contested Issue - NERBA; Reply Strategy Discussion; Balancing Account Literature Review	0.92
08/29/16	SN	Case Admin: Read & Analyse Other Party Submissions on Settlement Contested Issues (NERBA, 2020)	0.67

CFC Timesheets
PG 2017 GRC - Phase I

Date	Issue	Description	Hours
08/30/16	SN	Case Admin: Read & Analyse Other Party Submissions on Settlement Contested Issues (NERBA, 2020)	1.00
08/31/16	SN	Case Admin: Discuss ALJ Appearance Request re NERBA, 2020 w/ NJ	0.25
01/01/17	SN	GRC Cycle: Workshop re Proposed Change to 4 Year GRC Cycle	0.33
01/13/17	SN	GRC Cycle: Follow Up on Issues from Workshop re Proposed Change to 4 Year GRC Cycle	0.17
		TOTALS by Year	587.7
		2015	0.0
		2016	0.0
		2017	0.0
		TOTALS by Issue	587.7
		GP	86.0
		GDST	327.3
		ELRE	41.6
		ESCL	3.5
		INSL	70.8
		INSP	40.1
		INDO	5.9
		SN	12.5
		W	0.0