- Q. Please state your name, business address and present position with Rocky
 Mountain Power (the Company), a division of PacifiCorp.
- A. My name is C. Craig Paice. My business address is 825 N.E. Multnomah, Suite 2000,
 Portland, Oregon 97232, and I am currently employed as a Regulatory Consultant in
 the Regulation Department.

6 Qualifications

7 Q. Please briefly describe your education and business experience.

- A. I received a Bachelor of Science Degree in Business Management from Brigham
 Young University in 1976. I have also attended various educational, professional and
 electric industry seminars during my career with the Company. I have been employed
 by PacifiCorp since the merger in 1989. Prior to that time, I was employed with Utah
 Power & Light Company beginning in 1978 holding various positions in the
 accounting, customer service, and regulatory areas.
- 14

Q. Please describe your present duties.

- A. My primary responsibilities are to prepare, present, and explain the results of the
 Company's cost of service studies to regulators and interested parties in jurisdictions
 where PacifiCorp provides retail electric service.
- 18 Q. Have you been a witness in other regulatory proceedings?
- A. I have previously provided cost of service testimony in the states of Utah, Wyoming,
 California, Oregon, and Washington.
- 21 **Purpose of Testimony**
- 22 Q. What is the purpose of your testimony?
- 23 A. I will present PacifiCorp's functionalized Class Cost of Service Study based on the

24

twelve month forecasted test period ending June 30, 2010.

25 Summary of Results

26 Q. Please identify Exhibit RMP__(CCP-1) and explain what it shows.

27 Α. Exhibit RMP (CCP-1) is the summary table from PacifiCorp's Twelve Months 28 Ending June 2010 Class Cost of Service Study for the State of Utah. It is based on 29 PacifiCorp's annual results of operations for the State of Utah as presented in the 30 testimony of Mr. Steven R. McDougal. It summarizes, both by customer group and 31 by function, the results of the cost study for the twelve months ending June 2010. 32 Page 1 presents the results at the Company's June 2010 Rate of Return assuming 33 current rate levels. Page 2 shows the results using the return provided by the \$66.9 34 million revised protocol mitigation cap price increase.

35 Q. Please identify Exhibit RMP__(CCP-2) and explain what it shows.

- A. Exhibit RMP__(CCP-2) shows the cost of service results in more detail by class and
 by function. Page 1 summarizes the total cost of service summary by class and pages
 2 through 6 contain a summary by class for each major function.
- 39 Changes in Cost of Service Study
- 40 Q. Are there any methodology differences between this cost study and the study
 41 previously filed with the Utah Commission in Docket No. 08-035-38?
- A. No. The cost of service employs the Revised Protocol methodology filed in the
 previous docket. However, the following enhancements were made to data supporting
 calculation of three cost allocation factors:
- Revision in development of the weighted distribution substation peaks used to
 create the substation and primary line cost allocation factor (F20).

- 47 Revision in the calculation of the customer advances factor (F50) used to
 48 allocate Customer Advances for Construction, Account 252.
- Revision in derivation of the meter allocation factor (F60) and account 902
 weighted customers (F41) to recognize the Company's current deployment of
 automated meter reading in the state of Utah.
- 52 Q. Please describe the revision made regarding derivation of weighted distribution
 53 substation peaks data.
- 54 Α. The substation and primary lines allocation factor, F20, uses twelve monthly 55 coincident distribution peaks multiplied by a weighting factor based on the number of 56 distribution substations that peak in each of the twelve months of the actual period. 57 The actual measured substation monthly peak loads received from the Distribution Engineering Department were adjusted so that substations with duplicate peaks 58 59 received a value equal to a fractional share of one (1) and substations with less than 60 twelve months of data were eliminated. These adjustments were recommended in the 61 rebuttal testimony of Company witness, Mr. Lowell E. Alt, Jr., in Docket No. 07-035-62 93.
- 63 Q. Please describe the revision made in the calculation of the factor (F50) used to
 64 allocate Account 252, Customer Advances for Construction.
- A. Contributions in Aid of Construction based on revenue class data were used in
 previous cost of service studies to calculate factor F50. Recently, the Company has
 been able to develop this data by rate schedule. The cost of service filed in this docket
 shows the derivation of factor F50 using Contributions in Aid of Construction by rate
 schedule rather than by revenue class for all schedules except street lighting.

Page 3 - Direct Testimony of C. Craig Paice

70 Q. Please describe the update made to reflect the Company's new automated meter 71 reading deployment?

- 72 Α. The account 902 weighting factor, which is used within the Cost of Service Study to 73 allocate class meter reading costs was updated to reflect cost reductions achieved for 74 customers along the Wasatch Front whose meter reading is now automated. The 75 average weighted cost of meter installations used to allocate meters by class was also 76 updated to reflect the slightly higher equipment costs of radio frequency (RF) meters 77 for customers who are read remotely. Both of these updates to the cost of service 78 model will allow the benefits as well as the costs of automated meter reading to be 79 more accurately apportioned among the classes.
- 80 Cost of Service Model Concerns
- Q. Please explain how the parties' concerns with the Company's Cost of Service
 (COS) model expressed in Docket No. 08-035-38 are being addressed.
- A. The Stipulation in Cost of Service and Rate Spread Phase II in Docket No. 08-03538 called for a work group to address the mechanics of the COS model and to hold at
 least three substantive work group meetings within 90 days of stipulation approval.
 The first of these meetings was held on June 11, 2009 with interested parties, and
 additional meetings will be held as determined necessary by the work group to
 address these issues.
- 89 Description of Procedures
- 90 Q. Please explain how the Cost of Service Study was developed.
- A. Using the results from Mr. McDougal's Exhibit RMP__(SRM-2), the study employs
 a three-step process referred to as functionalization, classification, and allocation.

93		These three steps recognize the way a utility provides electrical service and assigns
94		cost responsibility to the groups of customers for whom those costs were incurred.
95	Q.	Please describe functionalization and how it is employed in the Cost of Service
96		Study.
97	A.	Functionalization is the process of separating expenses and rate base items according
98		to five utility functions - production, transmission, distribution, retail and
99		miscellaneous.
100		• The production function consists of the costs associated with power generation,
101		including coal mining, and wholesale purchases.
102		• The transmission function includes the costs associated with the high voltage
103		system utilized for the bulk transmission of power from the generation source and
104		interconnected utilities to the load centers.
105		• The distribution function includes the costs associated with all the facilities that
106		are necessary to connect individual customers to the transmission system. This
107		includes distribution substations, poles and wires, line transformers, service drops
108		and meters.
109		• The retail services function includes the costs of meter reading, billing,
110		collections and customer service.
111		• The miscellaneous function includes costs associated with Demand Side
112		Management, franchise taxes, regulatory expenses, and other miscellaneous
113		expenses.
114		

115 Q. Describe classification and explain how it is used by PacifiCorp in the Cost of 116 Service Study.

Classification identifies the component of utility service being provided. The 117 Α. 118 Company provides and customers purchase service that includes at least three 119 different components: demand-related, energy-related, and customer-related. 120 Demand-related costs are incurred by the Company to meet the maximum demand 121 imposed on generating units, transmission lines, and distribution facilities. Energy-122 related costs vary with the output of a kWh of electricity. Customer-related costs are 123 driven by the number of customers served.

124 Q. How does PacifiCorp determine cost responsibility between customer groups?

125 After the costs have been functionalized and classified, the next step is to allocate A. 126 them among the customer classes. This is achieved by the use of allocation factors 127 that specify each class' share of a particular cost driver such as system peak demand, 128 energy consumed, or number of customers. The appropriate allocation factor is then 129 applied to the respective cost element to determine each class' share of cost. A 130 detailed description of PacifiCorp's functionalization, classification and allocation 131 procedures and the supporting calculations for the allocation factors are contained in 132 my workpapers.

133 Q. How were class loads developed for the forecasted test period?

A. The forecasted number of customers and class energy usage, as well as the monthly day and hour of system peak, for the twelve month test period ending June 2010 are based on the Company's load forecast as described in Dr. Peter C. Eelkema's direct testimony. Customer class contributions to monthly system peaks are based on

Page 6 - Direct Testimony of C. Craig Paice

historical hourly load research data which was matched against the forecasted hour of
monthly system peaks and then extrapolated to the forecasted class energy usage for
the test period.

141 Q. How are generation and transmission fixed costs apportioned among customer 142 classes?

143 The seasonally weighted demand allocation factor, first introduced by Company A. 144 witness Mr. David L. Taylor in Docket No. 06-035-21, is employed in the current 145 analysis. Production and transmission fixed costs are classified 75 percent demand 146 and 25 percent energy with the demand component of Factor 10 developed using 147 twelve monthly weighted coincident peak demands. In lieu of all twelve monthly load 148 values receiving an equal weight, each monthly value is assigned a different 149 weighting factor. Monthly weighting factors are calculated by dividing each month's 150 system coincident retail peak by the annual system retail peak. For the twelve months 151 ending June 2010, the system retail peak is forecasted to be 9,513 MW during July 152 2009. So the month of July receives a weighting of 1.00 (9,513/9,513). The forecasted system retail peak in January 2010 is forecasted to be 8,649 MW, therefore it receives 153 154 a weighting of 0.909 (8,649/9,513). The twelve monthly class coincident peaks are 155 multiplied by the monthly weighting factors and summed to calculate the weighted 156 allocation factor.

157 Q. Are the factors used to allocate Net Power Costs (NPC) calculated the same as 158 those used in Docket No. 08-035-38?

A. Yes. Since monthly class coincident peak and energy loads are included in the Cost of
Service Study and Net Power Costs are calculated and summarized by month in the

161 NPC study, PacifiCorp recommends that fuel and other NPC components be allocated 162 on a monthly basis. Factors F85 through F96 are used in the Cost of Service Study to 163 allocate monthly net power costs. A detailed description of factor development is 164 contained in Exhibit RMP (CCP-3).

165

Q. How are distribution costs allocated?

Distribution costs are classified as either demand related or customer related. In this 166 A. 167 study, only meters and services are considered as customer related with all other costs 168 considered demand related. Distribution substations and primary lines are allocated using the weighted monthly coincident distribution peaks. Distribution line 169 170 transformers and secondary lines are allocated using the weighted non-coincidental peak method. Meter costs are allocated to all customers. The meter allocation factor is 171 172 developed using the installed costs of new metering equipment for different types of 173 customers.

174 Q. How are services costs allocated to customers?

A. Services costs continue to be allocated to secondary voltage delivery customers using
an allocation factor based on the installed cost of new services for different customer
types. The cost of new services reflects the most recent cost data available and
represents costs that we are seeing today.

179 Q. Were there concerns with how services costs were being allocated in the Cost of
180 Service Study?

A. Yes. The consultant for the Committee of Consumer Service (CCS) filed direct
testimony in Docket No. 07-035-93 questioning the Company's current method of
allocating service costs assuming a single service drop per average customer

regardless of class. Based on the data available in the Company's billing records, the cost of service study allocates these costs in the same way that customers are billed, using a single service per average customer. Company records do not contain data regarding the number of customers per service drop and unless an alternate allocation method is proposed and deemed reasonable, the cost of service study will continue to allocate these costs assuming a single service per average customer.

190 Q. Please explain how customer accounting, customer service, and sales expenses 191 are allocated.

A. Customer accounting expenses are allocated to classes using weighted customer
 factors. The weightings reflect the resources required to perform such activities as
 meter reading, billing, and collections for different types of customers. Customer
 service expenses are allocated on the number of customers in each class.

196 Q. How are administrative & general expenses, general plant and intangible plant 197 allocated by PacifiCorp?

A. Most general plant, intangible plant, and administrative and general expenses are functionalized and allocated to classes based on generation, transmission, and distribution plant. Employee pensions and benefits have been assigned to functions and classes on the same basis as labor costs. Costs that have been identified as supporting customer systems are considered part of the retail services function and have been allocated using customer factors. Coal mine plant costs are allocated using the energy factor.

205

- 206 Q. How are costs and revenues associated with wholesale contracts and other
 207 electric revenues treated in the Cost of Service Study?
- A. No costs are assigned to wholesale contracts and other electric revenues. The revenues from these transactions are treated as revenue credits and are allocated to customer groups using the appropriate allocation factors. Revenue credits reduce the revenue requirement that is to be collected from firm retail customers. This is consistent with the treatment of these revenues in the interjurisdictional results of operations.

214 Special Contracts

215 Q. Have you included cost of service results for the Utah special contracts?

A. Yes. Consistent with both the treatment in the last case and the Revised Protocol, the loads and revenues associated with service to special contract customers are included as part of the jurisdictional allocation and included in the revenue requirement. The loads and revenues for special contract customers are also included in the Cost of Service Study.

221 Partial Requirements/Back-up/Electric Furnace Service

- Q. Does the Cost of Service Study include results for partial requirements, back-up
 service and electric furnace customers?
- A. No. Cost of service results were not calculated for these categories of customers,
 which includes one special contract customer and those customers taking service on
 Schedule 21 and Schedule 31.
- 227 Q. Why are these customers removed from the Cost of Service Study?
- A. Partial requirements, back-up service and electric furnace customers are not included

in the embedded Cost of Service Study because they do not lend themselves well to
this type of analysis. These customers usually have very sporadic loads from year-toyear producing volatile cost of service results depending on whether or not service is
required during the hour of monthly system peak. It is the Company's practice to
derive prices for partial requirements and back-up service from the prices and costs
for full requirements service.

235 Workpapers

236 Q. Have you included your workpapers?

A. Yes. Workpapers showing the complete functionalized results of operations and class cost of service detail are included as Exhibit RMP__(CCP-3). Also included in the workpapers is a detailed narrative describing the Company's functionalization, classification and allocation procedures.

241 Q. Does this conclude your direct testimony?

A. Yes, it does.