

1 **Q. Please state your name, business address and present position with Rocky**
2 **Mountain Power (the Company), a division of PacifiCorp.**

3 A. My name is John A. Cupparo. My business address is 825 N.E. Multnomah, Suite
4 1600, Portland, Oregon. My position is Vice President of Transmission for
5 PacifiCorp.

6 **Qualifications**

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

8 A. I have a Bachelor of Science degree in Computer Information Systems from
9 Colorado State University. My experience spans 24 years in the energy industry,
10 including oil and, gas and electric utilities. The majority of my experience has
11 been in information technology supporting natural gas pipelines, energy
12 commodity trading and end-to-end electric utility operations. I have been
13 employed at PacifiCorp since September 2000. Prior to assuming my current
14 position in August 2006, I was Chief Information Officer for PacifiCorp. My
15 responsibilities have covered supporting many aspects of utility operations
16 including; commercial and trading, outage management, customer service,
17 transmission scheduling and regulatory issues. I am responsible for all aspects of
18 PacifiCorp's main grid transmission investment strategy, customer service, main
19 grid planning, contract administration and tariff management. I am the co-chair of
20 the Northern Tier Transmission Group ("NTTG"), which coordinates
21 transmission planning, transmission expansion, and project reviews with sub-
22 regional and regional planning organizations within the Western Electricity
23 Coordinating Council ("WECC"). I am also an elected class one voting member

24 (transmission owner class) of the WECC Board of Directors. As a member of the
25 Board of Directors, I participate with other WECC members in overseeing
26 WECC's activities, including defining standards and policies to ensure reliability
27 of the western electric grid. I also hold a position on WECC's Transmission
28 Expansion Planning Policy Committee, the Scenario Planning Steering Group,
29 and the Reliability Coordination Committee.

30 **Q. What is the purpose of your testimony?**

31 A. The purpose of my testimony is to provide the Commission with information on
32 the Populus to Ben Lomond transmission line. The Populus to Ben Lomond
33 transmission line for which the Company is seeking cost recovery in this case, is
34 the remaining section of the Populus to Terminal transmission line segment. The
35 Populus to Terminal transmission line, and subsequent investments within the
36 Company's long-term, comprehensive transmission expansion plan known as
37 "Energy Gateway," satisfy multiple objectives of efficiently operating a six-state
38 transmission system. The benefit to Utah and all Rocky Mountain Power
39 customers is initially to enhance reliability and improve transfer capability within
40 the existing system, followed by establishing incremental capacity, which is key
41 to unlocking rich generation resource areas. Specifically, my testimony includes
42 the following:

- 43 • An overview of the Company's transmission system;
- 44 • An outline of the Company's Energy Gateway transmission expansion plan
45 and the details on the Populus to Terminal segment as part of this plan;

- 46 • An analysis demonstrating that the Populus to Ben Lomond transmission line,
47 the remaining section of the Populus to Terminal transmission segment, is
48 beneficial to customers as part of the overall long-term transmission
49 expansion plan developed by the Company; and
- 50 • Finally, a description of how the Populus to Ben Lomond transmission
51 investment helps satisfy a commitment the Company made as part of the Mid-
52 American Energy Holdings Company (“MEHC”) transaction.

53 **Q. What investment related to the Populus to Terminal transmission line is**
54 **included in the revenue requirement of this case?**

55 **A.** This case includes approximately \$548 million of capital investment on a total
56 Company basis for the remaining section of the line, the Populus to Ben Lomond
57 section that will be in-service by November 16, 2010.

58 **Overview of PacifiCorp’s Transmission System**

59 **Q. Please briefly describe PacifiCorp’s transmission system.**

60 **A.** PacifiCorp owns and operates approximately 15,800 miles of transmission lines
61 ranging from 46 kV to 500 kV across multiple western states. As of December 31,
62 2009, PacifiCorp’s current total Company net transmission plant in service is
63 equal to approximately \$2.1 billion. PacifiCorp is interconnected with more than
64 80 generation plants and 15 adjacent control areas at approximately 124 points of
65 interconnection. To provide electric service to its retail customers PacifiCorp
66 owns or has interest in generation resources directly interconnected to its
67 transmission system with a system peak capacity of approximately 12,131 MW.
68 This generation capacity includes a diverse mix of resources including coal,

69 hydro, wind power, natural gas simple cycle and combined cycle combustion
70 turbines, and geothermal.

71 **Q. Please describe the availability of existing transmission capacity on the**
72 **system.**

73 A. PacifiCorp's existing transmission system, as well as the transmission grid across
74 the western region, is severely constrained, and numerous regional study groups
75 have identified the pressing need for investment in new transmission
76 infrastructure.

77 **Q. Please describe the findings of the regional transmission studies related to**
78 **Energy Gateway and specifically the Populus to Terminal segment.**

79 A. Over the past decade, numerous studies have documented the need for new
80 transmission in the Western United States. As early as 2002, the Department of
81 Energy National Transmission Grid Study identified the Wyoming-Idaho
82 interface as a major constrained interface, and found, that under optimal
83 conditions, the Wyoming-Northern Utah interface is congested during 50 percent
84 or more of the hours during the year.¹

85 In 2004, the Rocky Mountain Area Transmission Study reached similar
86 conclusions, the result of which was a recommended expansion of the 345 kV
87 transmission lines connecting the Bridger substation to points south and west as
88 critically needed improvements.² In addition, the Department of Energy's 2006
89 National Electric Transmission Congestion Study ("DOE Congestion Study")

¹ National Transmission Grid Study at pp 15, 18. A full copy of this report is available at
<http://www.pi.energy.gov/documents/TransmissionGrid.pdf>.

² RMATS at Chapter 3-2, which shows the Bridger expansion as a critical expansion area from Wyoming
to Northern Utah and Wyoming to Idaho. The full report is available at
<http://psc.state.wy.us/htdocs/subregional/Reports.htm>

90 identified several constrained transmission paths in the West as shown in Exhibit
91 RMP___(JAC-1), including lines used to deliver electricity from generation plants
92 in Wyoming to loads in Utah and Oregon.³ Specifically, the DOE Congestion
93 Study illustrated that the expansion of the Bridger West facility is critical for
94 relieving congestion from Wyoming to Northern Utah, and Wyoming to Idaho.⁴
95 Similarly, the Western Interconnection 2006 Congestion Assessment Study,
96 which was issued by the DOE Western Congestion Analysis Task Force,
97 identified areas of congestion in the Rocky Mountain states, and projected that
98 based on 2005 load and resource forecasts and a production model, many of the
99 paths associated with the various segments of the Energy Gateway Project were
100 forecasted to be heavily congested.⁵

101 Reports initiated by the Western Governors' Association ("WGA") also
102 show certain paths in PacifiCorp's service territory (such as the Populus to
103 Terminal segment) to be constrained.⁶ Lastly, the Department of Energy
104 sponsored a study through Idaho National Laboratories to assess the economic
105 impact of not building transmission. While the report focused on assessing
106 economic impact on the Pacific Northwest, it also provides discussion and support
107 for the "hub and spoke" design which is similar to the Energy Gateway model for

³ The National Electric Transmission Congestion Study (August 2006) at pp 31-35. The transmission constraints identified in this study were identified by reviewing recent transmission studies such as those conducted by WECC and SSG-WI. The full report is available at

http://nietc.anl.gov/documents/docs/Congestion_Study_2006-9MB.pdf.

⁴ Such expansion is addressed by the Segment E portion of the Project.

⁵ A full copy of this study is available at

http://www.oe.energy.gov/DocumentsandMedia/DOE_Congestion_Study_2006_Western_Analysis.pdf.

⁶ The full report is available at

<http://www.westgov.org/wga/initiatives/cdeac/TransmissionReportfinal.pdf>.

108 connecting resource areas to load. The report also describes the interconnected
109 nature of transmission as being geographically dispersed, yet interdependent.⁷

110 Existing NTTG sub-regional transmission planning studies, conducted in
111 accordance with the Federal Regulatory Energy Commission's ("FERC") Order
112 890-A, show overall benefits to the region as a result of PacifiCorp's proposed
113 Energy Gateway.⁸ Additionally, the Company's request for incentive rate
114 treatment was granted by the FERC on July 3, 2008, which is analogous to a need
115 determination⁹. The full FERC order is provided in Exhibit RMP____(JAC-2).

116 Further information regarding the existing transmission system limits and
117 operational constraints in the Populus to Terminal line is discussed in Mr. Darrell
118 T. Gerrard's testimony.

119 **Q. Please describe any other documentation that points to the need for the**
120 **Energy Gateway project and the Populus to Terminal transmission line.**

121 A. On September 4, 2008, this Commission approved the Certificate of Public
122 Convenience and Necessity for the Populus to Terminal transmission line, in
123 Docket No. 08-035-42, Report and Order Granting Certificate and Certificate of
124 Public Need and Necessity. The Commission also approved cost recovery of the

⁷ The Cost of Not Building Transmission: Economic Impact of Proposed Transmission Line Projects for the Pacific Northwest Economic Region. Full report is available at <http://www.pnwer.org/Portals/0/Presentations/2008%20summit/Cost%20of%20not%20building%20transmission.pdf>.

⁸ Northern Tier Transmission Group 2008-2009 Biennial Transmission Plan Report full report is available at http://nttg.biz/site/index.php?option=com_docman&task=cat_view&gid=220&Itemid=31

⁹ PacifiCorp, Docket No. EL08-75-000, "Order On Petition For Declaratory Order" (October 21, 2008); 125 F.E.R.C. ¶ 61,076 (2008).

125 first section of the Populus to Terminal transmission segment, the Ben Lomond to
126 Terminal section in its Report and Order issued June 15, 2010 in Docket No. 10-
127 035-13.

128 **Q. Did MEHC make any transmission facilities commitments when it acquired**
129 **PacifiCorp?**

130 A. Yes. The regulatory commissions in all six states in the Company's service
131 territory approved the Company's capital commitments specifically in
132 transmission and distribution as part of the acquisition of the Company by
133 MEHC. MEHC made specific commitments and developed plans for a significant
134 capital expansion program across the system to support future demands and
135 growth of its customers. As part of the acquisition approval process, MEHC
136 committed to increase transfer capacity on a constrained path known as Path C by
137 300 MW.¹⁰ Populus to Terminal improves the capacity on Path C and has a
138 planned increase in transfer capacity of 1,400 MW when combined with other
139 segments of Energy Gateway. As such, the Populus to Terminal transmission
140 segment will significantly improve a point of constraint on the system that
141 currently affects numerous transmission customers, and strengthen reliability and
142 enable the Company to achieve the planned transfer capability rating of
143 subsequent Energy Gateway segments.

144 As described earlier in my testimony, this line will be placed in service in
145 two phases. The first phase includes the section of the line from the Ben Lomond
146 substation (near Ogden, Utah) to the Terminal substation and was fully energized
147 and all elements were placed into service by April 2010. The second phase

¹⁰ See Order No. 29998 at Page 6 (Commitment No. 34).

148 includes the remaining section of line from the Populus substation to the Ben
149 Lomond substation will be in-service by November 16, 2010.

150 **Overview of Energy Gateway Transmission Expansion**

151 **Q. Please generally describe Energy Gateway.**

152 A. Energy Gateway is a comprehensive transmission expansion plan that includes a
153 series of immediate action items that focus on long-term needs. Energy Gateway
154 will enhance reliability, reduce transmission system constraints and improve the
155 flow of electricity to Rocky Mountain Power's customers. The Energy Gateway
156 plan is comprised of eight interrelated and interdependent transmission segments
157 as outlined in Exhibit No. RMP___(JAC-3). The eight line segments within
158 Energy Gateway have been grouped and labeled as Gateway Central, Gateway
159 West, Gateway South and the Westside. Energy Gateway, when fully
160 implemented, will be spread among six states, numerous communities and
161 counties, and significant areas of federally-administered lands and will add
162 approximately 2,000 miles of new transmission lines to PacifiCorp's transmission
163 system. Due to the interconnected nature of PacifiCorp's transmission network,
164 investments may be required at other facilities in order to maximize the
165 effectiveness and efficiency of the network. For Energy Gateway, the eight
166 identified transmission segments provide specific capabilities, but also support
167 other transmission segments to enhance the full potential of Energy Gateway.

168 **Q. Please describe Gateway Central relative to the overall Energy Gateway**
169 **plan?**

170 A. Gateway Central is comprised of two transmission segments (Populus to Terminal

171 and Mona to Oquirrh) that establish the necessary electrical interconnection
172 between Gateway West and Gateway South. The Gateway West and Gateway
173 South line segments, when complete, will be the first 500kV lines to be installed
174 in Wyoming, southeast Idaho and Utah. Gateway Central will provide an essential
175 reliability backbone allowing Gateway West and Gateway South to operate at a
176 higher reliability and at an overall higher capacity than would otherwise be
177 possible without the Gateway Central interconnection. This investment will not
178 only add incremental transmission capacity, but will also strengthen PacifiCorp's
179 overall system while supporting future generation resource development to
180 benefit all Rocky Mountain Power customers.

181 As described earlier in my testimony, the Populus to Terminal
182 transmission segment is comprised of two smaller sections, which in total extend
183 135 miles from the new Populus substation near Downey, Idaho, south to the
184 existing Terminal substation near the Salt Lake International Airport west of Salt
185 Lake City, Utah. The Populus to Terminal transmission line is a key element of
186 the Energy Gateway's Gateway Central segment. Populus to Terminal is
187 designated as Segment B within Gateway Central in the Exhibit RMP____(JAC-3).

188 **Q. How will the Populus to Ben Lomond transmission line benefit Rocky**
189 **Mountain Power's customers?**

190 A. The Populus to Ben Lomond section of the Populus to Terminal transmission line
191 and subsequent investments within Energy Gateway satisfy multiple objectives of
192 efficiently operating a six-state transmission system in the long-term. The benefit
193 to Utah and all Rocky Mountain Power customers initially is to enhance reliability

194 and improve transfer capability within the existing system. In the future it will
195 also provide benefits by establishing incremental capacity to deliver the resources
196 within the Company's 2008 integrated resource plan ("IRP") and 2008 IRP
197 Update and meet long-term resource development objectives. Reliability is
198 fundamental to effectively and efficiently managing the Company's six-state
199 transmission system. As a federally-regulated transmission provider, the
200 Company must comply with reliability standards mandated by FERC through
201 NERC and WECC. By meeting these standards the Company continues to
202 maintain a stable and reliable system during a variety of operating conditions
203 which minimizes potential outages to all customers and financial impacts of
204 having to deliver higher cost resources if required. The Populus to Terminal
205 addresses reliability for all Rocky Mountain Power customers. Beyond reliability,
206 when completed, the two sections of this transmission line increase transfer
207 capability from north to south and south to north across the Company's
208 transmission system. By doing so, the Company addresses a key constraint (Path
209 C), meets an MEHC transaction commitment and improves the Company's ability
210 to import and export lower cost resources depending on seasonal needs and
211 operating conditions.

212 Populus to Terminal also establishes incremental capacity to provide long
213 term benefits to customers. Over the next 10 years, Utah load has a forecasted
214 average annual growth rate of 2.7 percent according to the 2008 Integrated
215 Resource Plan Update filed on March 31, 2010 placing more demand on an
216 already constrained system. Additionally, the 2010 Economic Report to the

217 Governor shows a growing population combined with average life expectancy and
218 birth rates higher than the national average. The State's population is projected to
219 be 2.9 million in 2010 and 3.7 million in 2020. This increase in population will
220 result in additional residential, municipal, and industrial electrical demands. To
221 accommodate the increased population's needs, the Company must ensure not
222 only that there are adequate supplies of electricity to meet ongoing customer
223 demands for energy, but also that the transmission system has the capacity and
224 reliability to deliver this increased demand for electricity to customers. At the
225 same time, adequate transmission capability is essential for the Company to
226 maintain its obligations to provide reliable and safe electricity to its customers.

227 **Q. What is the capital investment of the Populus to Ben Lomond section**
228 **included in the revenue requirement of this case?**

229 A. This case includes approximately \$548 million of capital investment (total
230 Company) for the Populus to Ben Lomond section of the Populus to Terminal
231 transmission line segment. Mr. Brian S. Dickman's testimony describes the
232 revenue requirement calculations associated with the inclusion of this
233 transmission investment. Mr. Gerrard's testimony describes, in more detail, the
234 components of the \$548 million.

235 **Populus to Ben Lomond Transmission Investment**

236 **Q. Please describe the Populus to Ben Lomond section of transmission line in**
237 **more detail.**

238 A. Exhibit RMP____(JAC-4) is a map of the Populus to Terminal transmission line
239 segment. Ben Lomond to Terminal, in-service by April 2010, is the southern

240 section of the transmission line segment and is highlighted in red on the map.
241 Populus to Ben Lomond, the remaining section of the line, is highlighted in
242 yellow, green and blue on the map.

243 **Q. What factors does the Company consider before building new transmission?**

244 A. The Company considers several factors before building new transmission
245 facilities including the following:

- 246 • Current and future forecasts for demand and energy required from existing
247 and new resources to new and existing loads. These considerations are
248 addressed in the Company's 2008 IRP including demand side and energy
249 conservation programs;
- 250 • Alternatives including building local generation near load and/or energy
251 market purchases;
- 252 • The Company's use of existing land rights and existing right-of-way
253 corridors;
- 254 • Upgrades to increase operability, and reliability from existing transmission
255 lines and substations; and
- 256 • Maximizing the capacity and capabilities of existing facilities.

257 Because prudent transmission investments are typically large scale to
258 maximize efficiencies and gain economies of scale, the benefits are realized over
259 the long-term. More details related to these considerations are provided in Mr.
260 Gerrard's direct testimony.

261 **Q. Is PacifiCorp's transmission expansion plan a component of integrated**
262 **resource planning?**

263 A. Yes. As part of MEHC's acquisition of PacifiCorp, the Company performed a
264 review of the integrated resource planning process. From that review, the
265 Company determined there was a need for a long-term transmission investment
266 strategy to support the long-term resource needs of customers. Historically, IRPs
267 were relatively silent on transmission investments assuming transmission would
268 follow generation investments. Given the long-term needs of customers, existing
269 transmission system constraints, the time required to build new transmission lines
270 and the challenges associated with designing, permitting and constructing
271 transmission lines, transmission is now a key element of the Company's IRP, as
272 evidenced by the inclusion of Energy Gateway in PacifiCorp's 2008 IRP. The
273 Company's 2008 IRP, filed in May 2009, and subsequent 2008 IRP Update filed
274 in March 2010, identified the need for investment in major new transmission
275 facilities to meet the forecast loads of PacifiCorp's customers.

276 **Q. Once the decision is made to invest in new transmission, what is the process**
277 **for getting it built?**

278 A. Once the decision is made to invest in new transmission, capacity sizing of the
279 transmission line is taken into consideration to balance current and future needs.
280 Constructing long, linear facilities such as a transmission line is an extensive
281 process. Siting, permitting and constructing new transmission can take up to
282 seven years and potentially involves acquiring new rights-of-way and permits

283 from local, state and federal agencies. There are also a series of design and
284 routing considerations to minimize the environmental, visual and human impacts.

285 **Q. What land rights and permits were acquired for the Populus to Terminal**
286 **segment?**

287 A. The Company holds all of the necessary land rights, either in easements or fee
288 ownership, between the Populus substation and the Terminal substation.
289 However, the Company was required to secure numerous permits and approvals
290 from federal and state entities, such as:

- 291 • The U.S. Army Corps of Engineers required permits for construction within
292 jurisdictional wetlands.
- 293 • The Federal Aviation Administration required aviation permits for
294 construction of Populus to Terminal near Salt Lake International Airport.
- 295 • The Utah and Idaho Departments of Transportation required permits from
296 railroad companies for roadway crossings, overhangs and easements.
- 297 • The U.S. Bureau of Reclamation required a crossing permit for the Ogden-
298 Brigham canal.
- 299 • The Utah Department of Wildlife Resources required a permit for crossing
300 Wildlife and Waterfowl Management Areas, with a separate agreement
301 required for construction within the Legacy Nature Preserve.
- 302 • The approval of the U.S. Fish & Wildlife Service, U.S. Forest Service and
303 Utah State Historical Preservation Office was also required as an element of
304 various wildlife & environmental habitat permits.

305 **Q. What permits were required by local governmental authorities for the**
306 **construction of Populus to Terminal?**

307 A. The Company holds a franchise agreement with each municipality and county
308 within the route that grants the necessary rights for the construction of the
309 transmission line. In addition, the Company secured conditional use permits from
310 all cities and counties, based on each community's requirements. This
311 Commission and the Idaho Public Utilities Commission issued Certificates of
312 Public Convenience and Necessity in 2008, as described previously in my
313 testimony.

314 **Q. Please describe the approach the Company used to secure appropriate**
315 **resources to construct the new transmission.**

316 A. The Company initiated a competitive bidding process to receive blind sealed bids
317 for the project work scope to be delivered on a turnkey, fixed price, guaranteed
318 completion date basis using an engineer, procure and construct form of
319 contracting. The competitive bidding process began in October 2007 and provided
320 two separate blind-sealed bidding opportunities. All bid responses were due for
321 submittal in May 2008 and again in July 2008 after additional information was
322 provided to bidders allowing a refinement of previously submitted design
323 solutions, terms and conditions including price. Three qualified bids were
324 received and evaluated resulting from the May 2008 proposal submissions.
325 During the evaluation period one of the bidders withdrew from the bidding
326 process. The Company received two competing proposals in July 2008 with
327 qualified prices of \$609 million and \$528 million, respectively. After extensive

328 evaluations of bidder proposals and review of exceptions to work scope and base
329 terms and conditions from each bid proposal, the Company ultimately awarded
330 the contract in October 2008, details of which are provided in Mr. Gerrard's
331 testimony. The scope of the bidding process included the Populus to Terminal
332 segment, which includes the sections outlined in Exhibit RMP____(JAC-3). More
333 details related to the selection process and project scope are provided in Mr.
334 Gerrard's direct testimony.

335 **Q. Why did the Company use the engineer, procure and construct approach?**

336 A. The engineer, procure and construct ("EPC") solicitation is a common form of
337 contracting for large construction projects such as the Populus to Terminal
338 transmission segment and is regarded in the industry as a prudent approach for
339 cost control and managing design, procurement and construction risks. This
340 approach provides certainty relative to schedule and cost outcomes for the benefit
341 of customers and caps potential cost escalations where possible upon the
342 occurrence of defined risks. It also ensures more timely delivery to support
343 system needs and transmission reliability.

344 **Q. Please explain what you mean concerning capping costs upon the occurrence
345 of identified risks.**

346 A. The fixed-price EPC approach has minimal provisions for cost and schedule
347 variances. Where cost and schedule variances were not included in the fixed price
348 for certain contingent aspects of the work scope, these items were identified as
349 risk items and a contingent capped price and schedule allowance was agreed to
350 prior to contract execution should any of these risk items materialize. Contingent

351 risk items were limited to defined occurrences such as weather delays,
352 environmental impacts and sub-surface ground conditions.

353 **Q. Have there been any updates to the cost estimate for the Populus-Terminal**
354 **Project?**

355 A. Yes. At the time the Company filed its April 2008 CPCN testimony, total project
356 costs were estimated at approximately \$750 million for the transmission line and
357 substation. The April testimony also noted that the Company was working
358 through a competitive bid process and right-of-way acquisition and that its
359 estimate at the time could potentially be low.

360 The project estimate was derived from internal cost estimates based on
361 historical experience building similar transmission facilities. Because the internal
362 estimates were derived from historical information, contractor material and right-
363 of-way costs were not reflective of then-current market based costs for the
364 2007/2008 timeframe. The Company had not undertaken any significant
365 transmission expansion since the early 1990's, and this was the first high-voltage
366 transmission project involving a significant length of miles along with substation
367 construction.

368 As described earlier in my testimony, the CPCN was approved for this
369 project in September 2008. The total project cost at that time was estimated to be
370 \$930.5 million and reflected extensive evaluation of bidder proposals and internal
371 cost estimates. Since that time, as the first section of the segment has been placed
372 in-service and the second section nears completion, the Company has refined
373 project estimates to reflect more informed cost estimates and actual incurred

374 project costs.

375 **Q. Please describe the primary variance in cost between cost estimates.**

376 A. The table below summarizes the major cost categories between the April 2008
377 estimate when the CPCN testimony was filed, the September 2008 estimate when
378 the CPCN was approved, the December 2009 forecast project cost estimate and
379 the most recent forecast project cost estimate in June 2010.

Populus - Terminal 345 kV Line Project				
Comparison of April 2008 Estimate vs. September 2008 Approval vs. Total Project Forecasts				
	Project Estimate	Project Budget	Total Project	Total Project
Category	Apr-08	(Signed ER)	Forecast	Forecast
		Sep-08	Dec - 09	Jun - 10
Primary Contractor	\$ 412,542,621	\$ 580,564,000	\$ 610,030,583	\$ 607,840,195
Microwave	\$ 7,792,595	\$ 6,166,311	\$ 5,375,928	\$ 5,425,929
Idaho Power Share of Populus Sub				\$ (14,117,837)
External consulting, internal labor, land acquisition & owner supplied material	\$ 182,035,195	\$ 187,431,630	\$ 155,102,767	\$ 145,748,292
Allowance for funds used during construction (AFUDC) & Capital Surcharge	\$ 59,629,000	\$ 110,563,079	\$ 95,800,000	\$ 87,090,000
Sub Total	\$ 661,999,411	\$ 884,725,020	\$ 866,309,278	\$ 831,986,579
Contingency	\$ 82,790,589	\$ 45,786,342	\$ 6,188,831	\$ -
Total	\$ 744,790,000	\$ 930,511,362	\$ 872,498,109	\$ 831,986,579

380 The majority of the difference between the estimate provided in April 2008 and
381 the current June 2010 forecast is attributed to the primary contractor. The
382 competitive bid process, along with management approved changes in work,
383 results in a forecasted primary contractor cost in the amount of \$610,030,583
384 million forecast in December 2009, updated to a forecast amount of \$607,840,195

385 in June 2010. The difference in the amounts is based on actual project-to-date
386 costs plus a more recent forecast of the costs to complete the project.
387 Additionally, the most recent June 2010 forecast includes an estimated credit for
388 payments anticipated from Idaho Power for its portion of the Populus Substation
389 and does not include an amount for contingency as the project is closer to
390 completion. Finally, Allowance for Funds Used During Construction & Capital
391 Surcharge in the June 2010 forecast has decreased by approximately \$9 million
392 compared to the December 2009 forecast due to an earlier projected in-service
393 date for Populus to Ben Lomond.

394 **Conclusion**

395 **Q. Please summarize your conclusions.**

396 A. New transmission is essential to meet load growth, enhance transmission system
397 reliability and provide capacity to integrate resources to the long-term benefit of
398 customers. The Populus to Ben Lomond section is the remaining section
399 necessary to increase transmission capacity from southeastern Idaho into Utah and
400 to further facilitate a stronger interconnection to systems in Idaho, Wyoming and
401 the Pacific Northwest. This investment and subsequent investments in Energy
402 Gateway are prudent, cost effective and beneficial to customers.

403 **Q. Is the Populus to Ben Lomond transmission line section a prudent investment**
404 **and in the public interest?**

405 A. Yes. The Populus to Ben Lomond section and subsequent investments within
406 Energy Gateway satisfy multiple objectives of efficiently operating a six-state
407 transmission system, and therefore are in the public interest. The initial benefit to

408 PacifiCorp's customers is enhanced reliability and improved transfer capability
409 within the existing system. In the future, it will also provide incremental capacity
410 for delivery of resources within the Company's 2008 IRP, which is a key to
411 unlocking rich resource hubs for the benefit of all PacifiCorp customers and
412 ultimately the western interconnect. The Company has effectively managed the
413 costs of the project and the investment is prudent. The investment warrants rate
414 base treatment and inclusion in rates and I urge the Commission to approve the
415 Company's request.

416 **Q. Does this conclude your testimony?**

417 A. Yes.