1

#### Q. Please state your name, business address, and present position.

A. My name is Darrell T. Gerrard. My business address is 825 NE Multnomah
Street, Suite 1600, Portland, Oregon 97232. I am currently employed as Vice
President – Transmission System Planning for PacifiCorp. I have held my present
position since May 2007. The primary duties of my present position include
management and oversight of all Main Grid Transmission System Planning
requirements for both Rocky Mountain Power and Pacific Power, which are
operating units of PacifiCorp (collectively referred to as the "Company").

#### 9

#### Q. Please describe your education and business experience.

10 A. I have a Bachelor of Science degree in Electrical Engineering from the University 11 of Utah. My experience spans more than 30 years in the electric utility business 12 and electric industry in general. I have experience and have been responsible for a 13 number of functional organizations at the Company including: Area Engineering, 14 Area Planning, Region Engineering, T&D Facilities Management, Transmission, 15 Substation and Distribution Engineering, System Protection and Control, T&D 16 Project Management Delivery, Management, Electronic and Asset 17 Communications, Hydro System Engineering, Transmission Grid Operations, and 18 most recently Transmission System Planning. Currently my responsibility is to 19 ensure that proper planning activities are performed as necessary for the 20 Company's bulk transmission system. I am also responsible for the conceptual 21 design and ongoing electrical transmission system planning required to support 22 the Company's Energy Gateway Program.

#### 23 Q. What is the purpose of your testimony?

A. The purpose of my testimony is to describe the purpose and need for the Sigurd to
Red Butte No. 2 - 345 kV transmission line (the "Transmission Project" or the
"Project") in support of the Company's request for a Certificate of Public
Convenience and Necessity ("CPCN").

28 **Q.** Please summarize your testimony.

29 A. In summary, the Transmission Project is necessary to first, improve the overall 30 reliability of the Company's existing transmission system and second it is 31 necessary to meet both short and long term customer demands for energy. The 32 southwest Utah transmission system, including the existing Sigurd to Three Peaks 33 to Red Butte No. 1 - 345 kV transmission line and the Red Butte to Harry Allen 34 345kV line cannot currently provide adequate and reliable service under all 35 expected operating conditions and expected future customer demands. 36 Additionally, the existing 345kV transmission line between the Sigurd and Red 37 Butte substations represents the sole transmission connection between major 38 southwest Utah load areas, and generation sources expected to serve this customer 39 load. Today loss of this existing line exposes over 120,000 electric customers and 40 over 425 megawatts of demand to loss of supply line outage events. Load growth 41 in southwestern Utah has increased significantly over time and is forecasted to 42 continue to increase beyond the current recession period, further surpassing the 43 capabilities of the existing transmission system. New transmission facilities must 44 be constructed to provide reliable capacity for load service. Without the Project, 45 peak load in southwestern Utah cannot be reliably served during transmission line

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46 outages or major substation equipment contingencies. The Project will not only 47 improve reliability and support future electrical load growth in southwestern 48 Utah, but will also improve the ability of Rocky Mountain Power's transmission 49 system to transport energy into southwest and central Utah, and on to high growth 50 urban areas in and around Salt Lake City, along the Wasatch Front, and to 51 Company's eastern control balancing area in general. Due to the interconnected 52 nature of the Company's transmission system, this Project will benefit 53 PacifiCorp's system in a regional context. Utah is currently one of the fastest 54 growing states and projections indicate that it will continue to grow rapidly for 55 decades. Staying ahead of expected future energy demand is therefore critical. Finally, in addition to meeting our customers' future energy requirements, this 56 57 Project is key to maintaining the Company's compliance with mandated North 58 American Electric Reliability Corporation ("NERC") and Western Electricity Coordinating Council ("WECC") reliability and performance standards during 59 60 normal system operations and during certain transmission system and generation 61 plant outage conditions.

- 62 GENERAL DESCRIPTION OF THE PROJECT
- 63 Q. Please describe the Transmission Project.

A. The Project is a component of the Company's long range transmission plan and
consists of a new single circuit 345 kV transmission line that will be built between
the existing Sigurd substation in Sevier County located approximately six miles
northeast of the town of Richfield, Utah, to the Red Butte substation west of State
Route 18 and the town of Central in Washington County, Utah. The total length of

69 the Project will be approximately 160 miles, depending on the alternative 70 alignment selected. The precise alignment for the Project has not yet been 71 determined. Because much of the Project will be located on federal land managed 72 by the U.S. Bureau of Land Management of the U.S. Department of Interior 73 ("BLM") as well as the U.S. Forest Service of the U.S. Department of Agriculture 74 (the "USFS"), the ultimate line route decision will be made by the BLM, which 75 has been designated as the lead agency in the federal environmental review 76 process. This decision will be based on an environmental impact statement 77 ("EIS") currently being prepared in accordance with the National Environmental 78 Policy Act ("NEPA"). This process requires, among other things, input by the 79 public, state and federal land and resource agencies, the affected counties and 80 other local jurisdictions. A map showing the EIS study area for the Project is 81 attached hereto as Exhibit RMP\_\_\_(DTG-1). The Company has been prudent by 82 very actively engaging in the NEPA and permitting process for four years and 83 nine months in order to anticipate the Projects needed in-service date.

Construction of the Project will commence upon approval of the CPCN by the Commission, and issuance of Records of Decision by the BLM and USFS. The duration of construction activities will depend, in part, on the timing of Project authorizations, but in general, the entire Project is expected to require approximately 26 months to complete, with a minimum of 16 months required for heavy construction activities. The Project is designed to meet an in-service date of June 30, 2015.

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#### 91 BACKGROUND

#### 92 What is your general understanding of the standard for the Commission's 0.

#### 93 decision in this case?

- 94 A. I am not an attorney but have relied on legal counsel for this response. In *Mulcahy*
- 95 v. Public Service Commission, 117 P.2d 298 (Utah 1941), the court stated:
- 96 The "convenience" and "necessity" required to support an application for 97 a certificate are those of the public, not those of individuals. . . . 98 "Necessity" and "convenience" are not to be construed as synonymous. 99 Convenience is much broader and more inclusive than necessity, but effect must be given to both. Necessity means reasonably necessary and not 100 101 absolutely imperative. . . . It does not mean "necessary" in the ordinary sense of the term. The convenience of the public must not be 102 103 circumscribed by holding the term "necessity" to mean an essential 104 requisite. 105

. . .

106 [I]n determining whether or not the convenience and necessity of the 107 public will be best subserved by the proposed service, the needs and welfare of the people of the territory or community affected should be 108 considered as a whole. (117 P.2d at 300, 301; emphasis added) 109

#### 110 Has the Commission provided any further guidance in the issuance of a Q.

- 111 **CPCN?**
- 112 Yes. In the Scheduling Order issued in May 2008 that granted a certificate of A.
- public convenience and necessity for the Populus Terminal transmission line 113
- 114 project, the Commission was clear that siting of a transmission line is not within
- 115 the issuance criteria of this type of docket:
- 116 The Commission desires to clarify the purpose of this proceeding. This 117 proceeding is not about the location or siting of the Transmission Line if it is built. The Commission does not have jurisdiction over the siting of 118 119 transmission lines. This proceeding is to determine if present or future public convenience and necessity does or will require construction of a 120 121 transmission line. (Scheduling Order at page 1; emphasis added).

122 In its final order in that docket, the Commission reaffirmed that "the Commission 123 does not have jurisdiction over the siting of transmission lines generally nor of this particular facility. . . . Our proceedings are to determine if present or future 124 125 public convenience and necessity does, or will, require construction of a 126 transmission line." (Report and Order Granting Certificate and Certificate of Public Need and Necessity, Docket No. 08-035-42, September 4, 2008, at page 2). 127 128 It is also my understanding that granting of a certificate does not constitute 129 determination of prudency by the Commission.

Q. Recognizing that siting is not an issue here, it may nonetheless be helpful as
general background for the Commission to be aware of the proposed route
for the Transmission Project. What is the current proposed route for the
transmission portion of the Project?

134 A map showing the Company's proposed route of the Transmission Project is A. attached as Exhibit RMP\_\_\_(DTG-2), which, of course, is subject to adjustment 135 136 based on the outcome of the Final EIS and the Records of Decision from the BLM and USFS. Further, as with any project of this nature, it is also subject to minor 137 138 route adjustments that may occur during final engineering and design, and 139 working directly with landowners along the transmission line route. The existing 140 Sigurd and Red Butte substations will be upgraded to accommodate the new 141 transmission lines, equipment and termination points.

#### 142 Q. What is the projected cost of the Project?

143 A. The projected cost of the Project is approximately \$380 million.

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#### 144 STATUS OF ENVIRONMENTAL APPROVAL

## 145 Q. What is the current status of the Environmental Impact Statement and 146 approval?

147 A. The Company filed a right of way permit application with the BLM and the USFS 148 in December 2008, which triggered the need to prepare an EIS in accordance with 149 the requirements of NEPA. The draft EIS was released for public comment in 150 May 2011, with the final EIS scheduled for publication in October 2012. The 151 Company anticipates that the BLM and USFS will issue their respective Records 152 of Decision in December 2012. As noted previously, the BLM has been 153 designated as the lead agency in the EIS process. The Company believes the 154 BLM's decision will result in the issuance of the rights-of-way and authorizations 155 necessary for the Company to begin construction on federally-administered lands. 156 We will, of course, inform the Commission when the environmental approval has 157 been granted, and of any changes to the Company's proposals that may result 158 from that approval process.

159 Q. What is the current status of the Environmental Assessment and approval?

A. The Company conducted geotechnical soil sampling investigations to identify the geotechnical conditions along each of the alternative routes, to assist in foundation designs, and to facilitate the development of more accurate construction costs. In order to obtain the necessary authorization from the BLM and USFS to conduct these geotechnical investigations, including borehole drilling, an Environmental Assessment ("EA") was required to analyze potential impacts on natural, human and cultural resources along each alternative route as a

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result of these activities. The BLM, in cooperation with the USFS, state, county
and municipal agencies, has completed the EA and issued a Finding of No
Significant Impact ("FONSI"). Following the BLM's decision, the Company
commenced the geotechnical studies, including borehole drilling activities, in
September 2010.

#### 172 THE PROJECT DECISION—RELIABILITY AND LOAD SERVICE

# Q. Customer load growth information is an important factor in determining the need and the timing of transmission projects. What load information was used to determine the Project is needed now?

PacifiCorp's Open Access Transmission Tariff ("OATT"),<sup>1</sup> approved by the 176 A. Federal Energy Regulatory Commission ("FERC"), details the Company's 177 178 requirements and obligations to provide transmission service. Section 28.2 defines 179 PacifiCorp's responsibilities, which include the requirement to "plan, construct, 180 operate and maintain the system in accordance with good utility practice." Section 181 31.6 defines the requirement for all network customers to supply annual load and 182 resource updates for inclusion in planning studies. The Company solicits this data 183 annually in order to determine future load and resource requirements for all 184 transmission network customers. The Company's retail loads comprise the bulk of 185 the transmission network customer need in Utah with the exception of southwest 186 Utah where the company provides network transmission service to other utilities 187 who are the major electric service providers in the area. Details regarding those 188 other utilities who are dependent on the Company's transmission system is 189 provided later in my testimony. Section 28.3 states the requirement for PacifiCorp

<sup>1</sup> http://www.oasis.pacificorp.com/oasis/ppw/OATTVol11Baseline\_20100908.pdf.

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to provide "firm service over the system so that designated resources can be
delivered to designated loads." The Project is necessary to meet these
requirements and to meet expected and forecasted customer energy demand.
Under the Company's OATT it is required to provide adequate and nondiscriminatory service to all network customers.

## 195 Q. What specific reliability standards and criteria require the Project and its 196 timing to completion?

197 PacifiCorp plans, designs, and operates its transmission system to meet or exceed A. 198 NERC Standards for Bulk Electric Systems and WECC Regional standards and 199 criteria. The NERC standards are federal law stated in 18 CFR Part 40 200 (Mandatory Reliability Standards for Bulk-Power Systems). The WECC 201 standards and criteria are deemed necessary for the WECC Region to meet or 202 exceed NERC standards. There are currently more than 100 approved NERC 203 standards with which the Company must comply. The Project and its respective 204 in-service date timing are required to maintain compliance with the following:

• NERC TPL-001 <u>System Performance Under Normal Conditions</u><sup>2</sup>

NERC TPL-002 <u>System Performance Following Loss of a Single</u>
 BES Element<sup>3</sup>

 208
 • NERC TPL-003
 System Performance Following Loss of Two or

 209
 More BES Elements<sup>4</sup>

NERC TPL-004 <u>System Performance Following Extreme BES</u>
 <u>Events</u><sup>5</sup>

205

<sup>&</sup>lt;sup>2</sup> NERC TPL-001 can be found at: <u>http://www.nerc.com/files/TPL-001-0.pdf</u>.

<sup>&</sup>lt;sup>3</sup> NERC TPL-002 can be found at: <u>http://www.nerc.com/files/TPL-002-0.pdf</u>.

<sup>&</sup>lt;sup>4</sup> NERC TPL-003 can be found at: <u>http://www.nerc.com/files/TPL-003-0.pdf</u>.

212		• TPL 001-WECC-1-CR System Performance Criteria Normal Conditions <sup>6</sup>
213		• TPL 002-WECC-1-CR System Performance Criteria Following Loss of a
214		Single BES Element
215		• TPL 003-WECC-1-CR System Performance Criteria Following Loss of
216		Two or More BES
217		• TPL 003-WECC-1-CR System Performance Criteria Following Extreme
218		BES Events
219		• NERC TOP-002 <u>Normal Operations Planning</u> <sup>7</sup>
220		• NERC TOP-004 <u>Transmission Operations</u> <sup>8</sup>
221		• NERC TOP-007 <u>Reporting SOL and IROL Violations</u> <sup>9</sup>
222		The above-referenced standards dictate the minimum levels of transmission
223		system reliability, redundancy, and performance required for transmission
224		facilities. The Company must have adequate transmission system capacity to
225		serve customers in advance of the expected demand and must be proactive in
226		doing so.
227	Q.	Please discuss further how these standards and criteria influence the timing
228		of the Project.
229	А.	These mandatory standards require the Company to have a forward-looking
230		transmission plan of action to reliably serve current and anticipated customer
231		demands under all expected operating conditions, including normal system

<sup>&</sup>lt;sup>5</sup> NERC TPL-004 can be found at: <u>http://www.nerc.com/files/TPL-004-0.pdf</u>.

<sup>&</sup>lt;sup>6</sup> TPL 001-WECC-1-CR – TPL 004-WECC -1-CR can be found at:

http://www.wecc.biz/Standards/WECC%20Criteria/TPL-001%20thru%20004-WECC-1-CR%20-%20System%20Performance%20Criteria.pdf.

<sup>&</sup>lt;sup>7</sup> NERC TPL-002 can be found at: <u>http://www.nerc.com/files/TPL-002-0.pdf</u>.

 <sup>&</sup>lt;sup>8</sup> NERC TPL-004 can be found at: <u>http://www.nerc.com/files/TPL-004-0.pdf</u>.
 <sup>9</sup> NERC TOP-007 can be found at: <u>http://www.nerc.com/files/TOP-007-0.pdf</u>.

232	operations (all system elements in service) and during system contingencies
233	(where elements of the transmission system are out of service), both planned or
234	otherwise. NERC Transmission Planning Standard TPL 002 states:
235	A. Introduction
236	Purpose: System simulations and associated assessments are needed
237	periodically to ensure that reliable systems are developed that <i>meet</i>
238	specified performance requirements with sufficient lead time, and continue
238 239	
	to be modified or upgraded as <u>necessary to meet present and future system</u>
240	<u>needs.</u>
241	B. Requirements
242	<b>R1.</b> The Planning Authority and Transmission Planner shall each
243	demonstrate through valid assessment that its portion of the interconnected
244	transmission system is planned such that the Network can be operated to
245	supply projected customer demands and projected Firm (nonrecallable
246	reserved) Transmission Services, at all demand levels over the range of
247	forecast system demands, under the contingency conditions as defined in
248	Category B of Table I. To be valid, the Planning Authority and
249	Transmission Planner assessments shall:
217	
250	<b>R1.1.</b> Be made annually.
251	<b>R1.2.</b> Be conducted for near-term (years one through five) and
252	longer-term (years six through ten) planning horizons.
252	
253	<b>R2.</b> When System simulations indicate an <i>inability of the systems to</i>
254	respond as prescribed in Reliability Standard TPL-002-0_R1, the
255	Planning Authority and Transmission Planner shall each:
256	<b>R2.1.</b> Provide a written summary of its plans to achieve the
257	required system performance as described above throughout the
258	planning horizon:
259	<b>R2.1.1.</b> Including a schedule for implementation.
260	<b>R2.1.2.</b> Including a discussion of expected required in-service
261	dates of facilities.
262	<b>R2.1.3.</b> Consider lead times necessary to implement plans.
202	<b>R2.1.3.</b> Constact lead times necessary to implement plans.
263	(Emphasis added)
264	The Company is required to have both short-term and long-term transmission
20 <del>4</del>	The company is required to have both short-term and long-term transmission
265	plans to reliably meet all expected current and forecasted customer electrical
266	demands. The requirement to have such plans and prudently meet current and

forecasted customer demand is not optional for the Company. Projects of this size require multi-year planning, permitting and construction processes, and the Company must anticipate the need for adequate lead times and schedules for implementation of the Project.

Q. Is the Transmission Project included in the Company's IRP plans currently
under development and scheduled for release in early 2013?

273 A. Yes: The timing of the Project CPCN and timeline for the Company to enter into 274 a contract for construction are key in the Company's decision to include the 275 Project in its current IRP planning cycle analysis for 2013. Utah Report and Order 276 under Docket No. 11-2035-01 issued March 22, 2012 page 10, the Commission 277 stated the Company's "existing system should represent only facilities which have 278 already received a certificate of convenience and necessity (if required) or for 279 which the Company has a binding contract in place. All other facilities should be 280 included in core or sensitivity cases as options." The Project is necessary to 281 reliably deliver existing and future network resources to existing and future network loads. In addition, the Company anticipates this regulatory proceeding to 282 283 approve a CPCN for the Project will be concluded before the Company publishes 284 its final 2013 IRP.

285

### Q. Has the Company entered into a binding contract for design and

286 **construction of the Project?** 

A. The Company has competitively bid the Project as a part of its Engineer, Procure,
and Construct ("EPC") strategy used in effective delivery of transmission projects
of this size and scope. The Company expects to complete bid evaluations and to

290 award contracts for the Project in November, 2012. The Company fully 291 recognizes that its efforts in the EPC bidding process and subsequent award of 292 construction contracts necessary for the Project is occurring in a parallel track 293 with this CPCN proceeding however, the contract timing and award is necessary 294 in order to preserve the design and construction durations and timelines necessary 295 to efficiently place the Project in-service by June 2015. In recognition of this 296 timeline requirement, the Company has structured and negotiated contract terms 297 that allow termination of these contracts, by the Company, in the event the CPCN 298 is not issued or in the event the Record of Decision and Notice-to-Proceed are not 299 received from the BLM as lead agency in the NEPA process.

## 300 Q. Has the Transmission Project been included in previous IRP modeling and 301 analysis?

302 Yes. The 2008 Integrated Resource Plan ("IRP"), updated March 31, 2010, and A. 303 2008 IRP Update Errata dated June 16, 2010, include the Project as part of the 304 modeled transmission topology for the purpose of selecting the Company's 305 preferred portfolio of future supply-side and demand-side resources. The 2008 306 IRP describes what the Company calls the "Energy Gateway Transmission 307 Expansion." (2008 IRP, at pages 60-66). The Sigurd to Red Butte Transmission 308 Project is an integral part of the Energy Gateway Transmission Expansion. 309 Energy Gateway is designed to use "a 'hub and spoke' concept to most efficiently 310 integrate transmission lines and collection points with resources and loads centers 311 aimed at serving the Company's customers while keeping in sight Regional and Sub Regional needs." (2008 IRP, at page 61). The "2008 IRP Action Plan 312

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Update" consisted of 21 Action Items, one of which was to "Permit and construct a 345 kV line between Sigurd and Red Butte." (2008 IRP, Table 6.1, at pages 56 thru 66; the Sigurd to Red Butte project is identified as item 12 on page 64).

316 The Populus to Terminal transmission project (CPCN approved in Report 317 and Order, Docket No. 08-035-42, September 4, 2008) and the approved Mona to 318 Oquirrh transmission project (CPCN approved in Report and Order, Docket No. 319 09-035-54, July 16, 2010) are also part of the Energy Gateway Transmission 320 Expansion. The Company's success in providing low-cost energy depends on its 321 ability to reliably acquire and transmit power from numerous sources to load 322 centers. In addition, these coordinated projects represent a long-term effort by the 323 Company to deliver network resources to loads, to support retail load growth, and 324 improve reliability of the power grid, all of which is beneficial to the Company's 325 customers as a whole.

Further the Project was incorporated as part of a transmission expansion option included in the 2007 IRP capacity expansion optimization model. This analysis helped support the decision to include the Project as part of the Company's preferred portfolio. (2007 IRP, pg. 231)

## 330 Q. How does this Project meet the requirements of the current IRP in light of 331 the current recession?

A. The 2011 IRP recognizes that, at least in the near term, load growth will not be as
vibrant as had been forecast in the 2007 IRP, an issue I discuss further below.

For many years, Utah has been a high-growth state. Indeed, based on the recently released 2010 census, Utah's population increased by 23.8 percent over

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the last decade, the third highest growth rate in the country.<sup>10</sup> The Company is unaware of any data or other projections that suggest that this will change in any substantial way (particularly given Utah's natural population growth, which I discuss in detail below). When the recession ends, Utah will continue to be attractive to business and industrial growth and electricity will be essential to meet Utah's above-average population growth.

342 With respect to Washington County, according to U.S. Census Bureau 343 information there were 90,345 residents in 2000 and the 2007 projected 344 population was 133,447, resulting in a 47.7 percent increase from 2000 to 2007. 345 This growth translated into significant increases in electrical demand in the area 346 of the Washington County, consistently maintaining growth rates from 10 - 20347 percent annually from 2001 to 2007. Since 2007, the estimated population growth 348 was drastically reduced through 2011 but is beginning to increase. This was 349 confirmed with the 2010 census which reported a total population of 138,115. 350 Census estimates for future population growth in Washington County is expected to reach 141,666 in 2011 and will continue at the current modest growth levels.<sup>11</sup> 351

Utah has not been as hard hit by the recession as other states and the country as a whole. The seasonally adjusted national unemployment rate for November 2010, according the Bureau of Labor Statistics ("BLS"), was 9.8 percent.<sup>12</sup> The BLS reported that Utah's unemployment rate for the same period

<sup>&</sup>lt;sup>10</sup> See <u>http://2010.census.gov/2010census/data/apportionment-pop-text.php</u>.

<sup>&</sup>lt;sup>11</sup> <u>http://quickfacts.census.gov/qfd/states/49/49053.html</u>.

 $http://data.bls.gov/PDQ/servlet/SurveyOutputServlet?data\_tool=latest\_numbers\&series\_id=LNS14000000$ 

356

was 7.5 percent,<sup>13</sup> the sixteenth lowest unemployment rate of the fifty states.<sup>14</sup>

357 Of course, the long-range planning represented by the IRP requires the Company to look far beyond the current recession to assure that the electricity 358 359 needs of Utah are met on a much longer time line. Thus, while demand has been 360 affected by the recession and the 2011 IRP Update dated March 30, 2012 has 361 scaled-back its estimate of future customer peak load demand, the Company's 362 network load obligation in Utah is still expected to grow during the next ten years 363 at an average annual energy demand growth rate of about 2.5 percent. (2011 IRP 364 Update, at page 28 Table 3.2) The Company must ensure that, not only are there 365 adequate supplies of electricity to meet ongoing customer demands for energy, but also that the transmission system has the capacity and reliability to deliver this 366 367 increased demand for electricity to customers. At the same time, adequate 368 transmission capability is essential for the Company to maintain its obligation to 369 provide reliable and safe electricity to all of its customers. Without increased 370 reliability and new capacity gained by the Project, the Company will not be able to reliably meet customer energy needs. 371

372

#### **UTAH POPULATION GROWTH**

Q. Are the energy demand growth estimates in the Company's 2011 IRP and
estimates from other Network customers served by the Company consistent
with other data sources?

A. Yes. While I am not an expert on population growth drivers in our service areas, I
reviewed a new state study of Utah's economy, the 2010 Economic Report to the

<sup>&</sup>lt;sup>13</sup> http://www.bls.gov/eag/eag.ut.htm.

<sup>&</sup>lt;sup>14</sup> http://www.bls.gov/web/laumstrk.htm.

378	Governor ("2010 Report"). <sup>15</sup> I have attached a portion of the "Demographics"
379	section of the Report as Exhibit RMP(DTG-3).
380	Population growth is a combination of two factors: (1) natural growth
381	(births minus deaths) and (2) net migration (the number of people moving into the
382	state minus people moving out of the state). Based on the 2010 Report, in both
383	factors, growth in Utah is vibrant. Utah has one of the highest fertility rates in the
384	country (the fertility rate in the United States is 2.06, while the rate in Utah is
385	2.47). (See page 49, Table 15 of Exhibit RMP(DTG-3)). At the same time,
386 387 388 389	"Utah's life expectancy has been consistently higher than the national average. Life expectancy in Utah rose from 77.7 years in 1990 to 78.6 years in 2000. Nationally, life expectancy rose from 75.4 years in 1990 to 77.0 years in 2000." (Exhibit RMP(DTG-3), at page 41).
390	In combination, a high birth rate and a higher than average life expectancy
391	produces a strong rate of natural growth. In terms of net migration, Utah has
392	consistently experienced positive net in-migration for nearly two decades (and
393	with the economic problems experienced by California and Nevada one can
394	reasonably expect this to continue). The year 2009 "marked the 19th consecutive
395	year with net in-migration" to Utah (Exhibit RMP(DTG-3), at page 44). The
396	combination of these factors, and a stronger than average economy, produces
397	strong and continued population growth. In the last decade of the twentieth
398	century, Utah added about 510,000 new residents. (Exhibit RMP(DTG-3), see
399	Figure 29). Through 2009, Utah has added nearly 554,000 more residents since
400	2000.

<sup>&</sup>lt;sup>15</sup> The 2010 Report is available online at <u>http://www.governor.utah.gov/dea/ERG/2010ERG.pdf</u>.

In summary, the 2010 Report projects strong population growth for Utah: The
State's population "was projected to be 2.9 million in 2010, 3.7 million in 2020,
4.4 million in 2030, 5.2 million in 2040, 6.0 million in 2050, and 6.8 million in
2060." (*See* Exhibit RMP (DTG-3), at page 25).

This increase in population will result in additional residential, municipal, and industrial electrical demands to accommodate the increased population's needs. Despite conservation efforts by the Company and the public, it is clear that additional transmission capacity is necessary for the Company to meet reliability and customer demand growth over the foreseeable future.

#### 410 CURRENT TRANSMISSION SITUATION IN SOUTHWEST UTAH

# 411 Q. Please describe the current situation of the southwest Utah transmission 412 system and how the Sigurd to Red Butte Transmission Project fits into that 413 situation.

414 The existing transmission system serves customer loads in southwestern Utah and A. 415 additionally it provides transmission capacity necessary for firm point to point 416 energy transfers to and from Utah and Nevada through the Company's WECC 417 rated transmission Path TOT2C. This system is currently comprised of one 111 418 mile long 345kV transmission line connected between the Sigurd and Red Butte substations and one 148 mile long 345kv line from Red Butte Substation to Harry 419 420 Allen substation in Nevada. Rocky Mountain Power must increase the capacity of 421 the system consisting of one extra high voltage transmission path between the 422 existing Sigurd and Red Butte substations. This will be accomplished by 423 construction of the Company's Sigurd to Red Butte Transmission Project.

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424 This single existing transmission line between Sigurd and Red Butte 425 substation does not have the available capacity to reliably serve current and 426 expected future customer demand. Exhibit RMP (DTG-4) shows the existing 427 system serving southwest Utah today. The Project, when completed, will add a 428 second transmission line between Sigurd and Red Butte substations improving 429 reliability and increasing the existing transmission system's capacity to meet the 430 current and projected customer demands in southwest Utah and meet firm point to 431 point energy transfers across TOT 2C. The Project will also provide an increased 432 level of system redundancy as required by mandatory reliability standards 433 substantially improving the Company's ability to provide reliable electrical 434 service to its customers for many years. Exhibit RMP\_\_(DTG-5) shows the 435 system configuration after completion of the Project.

436 Under its Open Access Transmission Tariff, the Company has to maintain 437 transmission service contract obligations for firm point to point transmission 438 service into and out of southwestern Utah. In addition to meeting customer 439 demand served from Red Butte substation, another secondary benefit of this 440 Project is the capacity of the WECC Path TOT2C in the southbound direction will 441 increase incrementally by 200MW above today's capacity from Red Butte 442 substation to Harry Allen substation for a total system planned capacity of 443 600MW (see Exhibit RMP\_\_\_(DTG-5). This new transmission capacity can be 444 used by the Company to make off-system sales during periods of surplus energy 445 or to import energy during emergency conditions resulting from transmission or 446 generation contingencies. In addition, under its OATT, the Company's ability to

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offer additional firm transmission services to third parties in the Region will be
increased by the Project. All of the above provide benefits to all of the Company's
customers, including those in Utah by reducing their overall energy costs.

Furthermore, the Project provides improved access to existing and new generation sources, and would provide options to access other energy resources, including renewable resources. While the proposed Project is needed independent of, and would be built regardless of, any new generation project or other proposed transmission lines known in the area, the resulting increase in capacity added to the existing transmission system allows flexibility for future generation and interconnected transmission facilities.

## 457 Q. What analysis or studies did the Company perform to determine the Project 458 is needed and the timeline for the Project?

459 The Company performs annual reliability assessments, required under mandatory A. 460 reliability planning standard TPL 002 section B. Requirement (R1.), to determine 461 that its transmission system complies with minimum mandatory system performance standards. This performance standard requires that during loss of any 462 463 single transmission system element ("N-1 single contingencies") that firm service 464 is maintained, no system overloads exist and there is no loss of customer demand. 465 As part of this assessment the Company conducts a review of the forecasted peak energy demands in the area. Exhibit RMP\_\_\_(DTG-6), Southwest Utah Customer 466 467 Demand Forecast, is a histogram of forecasted peak customer demand served 468 from the Company's Red Butte substation connected to the Company's only 469 345kV extra high voltage transmission source servicing the area. The exhibit

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depicts very significant increases with customer energy demand over the next ten
years. Exhibit RMP\_\_(DTG-6) shows the limit on the existing system serving
the area based on the two most severe system outages the Company must
consider. The first limit is the outage of the existing Sigurd to Red Butte 345kV
line, 580MW representing the existing northbound limit of the Red Butte to Harry
Allen line, and the second is the loss of Red Butte Substation voltage support
equipment.

# 477 Q. What is the Company's plan to address customer demand in excess of the 478 system limits until such time the Project can be completed and placed in 479 service?

- 480 The Company has worked jointly with other interconnected transmission A. 481 providers and load serving entities in the area to develop temporary emergency 482 system operating procedures in the event customer demand exceeds system 483 capabilities. These procedures include dispatching local "non-firm" generation if 484 it is available or demand reduction by customer load shedding, or both actions if 485 necessary. These procedures are intended only to provide temporary system relief 486 during periods of excess demand and will remain in place until the Project can be 487 completed and placed in service.
- 488 Q. What are the impacts to the system and the Company if the Project is not
  489 completed?

490 A. If the Project is not completed, customer energy demand will push the system
491 over its established reliability limits and customer demand will be interrupted.
492 The Company is subject to inquiry or investigation and exposed to fines and

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sanctions that may be imposed by FERC, NERC and/or WECC for any 493 494 noncompliance. WECC, in conjunction with NERC, has established minimum 495 reliability standards and criteria for the Bulk Electric System. The Company must 496 meet all NERC and WECC transmission system reliability standards and 497 performance criteria. These criteria require the Company to have a forward 498 looking plan to reliably serve current and anticipated future customer demand 499 under normal conditions and during system contingencies where elements of the 500 transmission system are out of service, planned or otherwise.

501 The WECC and NERC mandatory standards and criteria establish the 502 minimum requirements for System Planning, Operation, and Maintenance with 503 which all transmission providers in the United States must comply. These 504 standards and criteria require that transmission providers evaluate all expected 505 customer demand levels and operating conditions and plan adequate redundancy 506 in the system to meet minimum levels of system reliability and performance. It is 507 the Company's responsibility as a transmission provider, based on operational 508 history and experience, to plan, design, site and construct transmission projects to 509 meet system performance requirements and manage reliability, risks and costs. 510 The Project is required to reliably serve customers in Utah including those in 511 areas of southwest Utah served from the Red Butte substation.

## 512 Q. What are the impacts to customers if the Project is not constructed or it is 513 delayed for any reason?

A. Without the Project, existing and future forecasted customer energy demand in
southwestern Utah cannot be reliably served and the Company's firm point-to-

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516 point transmission service contract obligations may not be met. In addition, the 517 Company would not be in compliance with the requirement to meet customer 518 energy demand under the requirements of its OATT sections 28 and 31 which I 519 discussed earlier in my testimony. The generation resources assigned to serve the 520 designated network customer load centers served from the Red Butte Substation 521 are all located north of the Company's Sigurd and Red Butte Substations. If the 522 transmission system does not have adequate capacity to reliably serve customer 523 demand or the existing Sigurd to Red Butte transmission line is out of service, for 524 any reason, these designated generation resources cannot be reliably delivered to 525 customer load centers served from the Red Butte Substation.

### 526 Q. What is the result if the existing transmission system is out of service for 527 some reason?

528 When the single 345kV transmission line existing today between Sigurd and Red A. 529 Butte is out of service, planned or otherwise, the entire southwest Utah load (more 530 than 120,000 customers) is subject to being served exclusively from Nevada Energy's system via a single transmission line connected from the Company's 531 532 Red Butte Substation to Nevada Energy's 345kV Harry Allen substation. Nevada 533 Energy and their interconnected system are under no obligation to meet customer 534 demand or to supply energy to southwest Utah customers in the event of inadequate system capacity or during outages of the Company's existing Sigurd to 535 536 Red Butte line. An adequate supply of energy, along with available firm 537 transmission service from Nevada to deliver energy to southwest Utah is currently 538 not available or economic under all current and future expected levels of customer

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539 demand.

In summary, the Project provides new incremental transmission capacity that is required in the short term and long-term to deliver network generation to network load centers in southwest Utah. The Project also provides increased transmission capacity allowing the Company to meet its current and future load service requirements, as well as enabling the Company to comply with mandatory WECC and NERC reliability performance standards and requirements therein.

Q. What is the estimated cost to obtain backup supply from Nevada Energy in
order to mitigate risk and potential impacts to southwest Utah customers
during outages of the Company's existing Sigurd to Red Butte line?

549 A. The Company has estimated, based on the limited capacity of the transmission 550 system between Harry Allen and Red Butte Substations, that the cost of obtaining 551 580MW of firm transmission wheeling services from Nevada Energy would 552 amount to a NPV cost of \$104 million over twenty years. The cost of this 553 transmission service is expected to increase substantially as Nevada Energy has some significant transmission investments currently under construction and is 554 555 planning to consolidate from two into one balancing area. The Company estimates 556 the NPV cost of securing a firm energy option at Mead Hub over the same period 557 would cost \$465 million dollars over the same 20 year period. Using 20-year 558 timeframe, the Company anticipates a third Sigurd to Red Butte transmission line 559 will be needed in addition to the Project within the next 20 to 25 years.

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560 Q. Does the Project, when constructed, eliminate the higher cost to customers
561 than to purchase of back up firm transmission service and firm energy from
562 Nevada?

A. Yes. The project provides a second transmission path from the Company's and other network customers' designated generation resources to the Company's and other customer network load centers served at the Red Butte substation and, therefore is a lower cost alternative than reliance on transmission service and energy supply from Nevada.

568 Q. Are there other reliability benefits that result from the Project in addition to
569 eliminating backup service from Nevada?

A. Yes. The project provides improved reliability to customers during normal system
operation and during system outages, both planned and unplanned. The Company
conducted an analysis of these system operational and reliability benefits and
estimated the NPV of having the second line in-service was \$65.2 million over the
same 20 year period.

# 575 Q. Have there been instances where the Company's only existing transmission 576 Sigurd to Red Butte line was out of service and customer demand was 577 interrupted?

A. Yes. As recent as May 31, 2011, the single 345kV line from Red Butte substation
to Nevada Energy's Harry Allen substation was taken out of service to facilitate
construction at Harry Allen. At approximately 9 a.m., a system fault occurred on
the only remaining transmission line serving Red Butte substation resulting in that
substation and all customers in southwest Utah being disconnected from the

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583 generation supply. The customer demand in the area was low that particular day, 584 at approximately 120 megawatts (28 percent of the peak customer demand in 585 2012). The transmission system outage lasted approximately nine minutes before 586 the faulted line was restored. More than 120,000 customers were impacted, with 587 some taking 2.5 hours or more to recover from the event.

### 588 Q. Would the Project, if it had been in-service at the time, have prevented such 589 a widespread outage in the area and reduced impacts to customers?

A. Yes. The Project would have provided increased capacity and reliability to Red
Butte substation as it is a second transmission line to the Red Butte substation
connecting to generation sources connected to Sigurd substation. Consequently
customers would not have experienced loss of electrical supply during the event.

594

#### ALTERNATIVES AND RATIONALE FOR THE PROJECT

#### 595 Q. Were alternatives to the Project considered?

596 Yes. Long term alternatives to constructing a new transmission line are limited. A. 597 Nonetheless, alternatives to constructing a new transmission line were given 598 serious consideration by the Company, but none fully met the purpose and need of 599 the Project long-term. The alternatives considered by the Company included: (1) 600 electric load and demand-side management and energy conservation, (2) new 601 generation facilities, both of which are part of the Company's IRP process, and 602 (3) obtaining additional capacity from the existing transmission system upgrades 603 and alternative transmission technologies. As a result of the resource portfolio 604 modeling conducted for the 2011 IRP Update and based on the load and resource

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data provided by other network customers the Company concluded that additional
transmission capability in Utah was the best option.

## 607 Q. What other actions has the Company taken to provide the needed system 608 reliability and capacity before proceeding with this Project?

609 As I discussed in alternative (3) above, the Company has completed projects to A. 610 add major equipment to the existing Three Peaks substation in 2009 to help 611 improve the 345 kV system operation and reliability for serving the general area. 612 In 2011 the Company completed an additional project adding major equipment to 613 the existing Red Butte substation in 2009 and 2010 that improved voltage support 614 and overall reliability of the system in the general area. In 2011 additional 615 facilities were added to the Harry Allen substation. These projects, along with the 616 special transmission emergency operating procedures which I discussed earlier in 617 my testimony, are required in order to serve customers and delay this project until 618 the summer of 2015.

#### 619 Q. Please describe further why the Project was selected?

- 620 A. The Project was selected based on several factors:
- The Project is needed to transport energy produced from network
  designated generation resources, both the Company's and third parties',
  which are remote from the network load centers served from the Red
  Butte substation.
- The Project is necessary for the Company to maintain its contract
   obligations to continue to provide reliable firm transmission services both
   native load services and point-to-point services.

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As stated previously, reliability benefits are provided by developing
 redundant transmission paths between the Sigurd and Red Butte
 substations in the event of unscheduled or planned outages. The Project
 satisfies not only the immediate need to serve customers but also the long
 term load growth requirement in addition to improving the reliability of
 the system for the Company's customers generally.

Strengthening the transmission system between the Sigurd and Red Butte
 substations allows the Company greater opportunity to take advantage of
 economic power transfers, sales, and purchases between Utah and
 Nevada.

- Currently transmission line and station maintenance windows are limited
   because the system is highly utilized. When completed, this Project will
   improve the Company's ability to perform required maintenance without
   significant operational impacts to the system, and it will reduce impacts to
   customers during planned and forced system outages.
- The Project provides an opportunity for developing southwest
   municipalities to incorporate both short- and long-term transmission
   infrastructure needs into their planning processes.

#### 646 Q. Describe how the Project will benefit the Company's customers.

A. The Transmission Project will provide a reliable and adequate supply of

- 648 electricity to meet existing and future customer energy demands. Without the
- 649 increased transmission capacity provided by the Project, the Company would be
- 650 faced with an increased and unacceptable risk of not being able to meet its load

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651 service obligations current and future. The Project will enhance the Company's 652 ability to provide safe, reliable and efficient service to all customers including 653 those in southwest Utah. Further, in order to provide low-cost energy, the 654 Company must have the ability to acquire power from numerous generation 655 sources in order to negotiate the most competitive pricing. By adding transmission 656 capacity the Company has increased its ability and options to obtain additional 657 generation sources at competitive pricing. The Project will result in a stronger 658 interconnection with other parts of the system providing better transmission 659 system access to the other sources of generation. The Project, especially when 660 complemented with other projects, such as the Populus to Terminal project and the Mona to Oquirrh transmission project which is now under construction and is 661 662 anticipated to be complete by May 2013, will greatly strengthen the Company's 663 transmission capacity and flexibility. Generally, the addition of the Project is integral in strengthening the Western grid's transmission infrastructure, which is 664 665 necessary based upon the Company's customers' near-term and long-term load 666 growth projections, and the contingencies and restrictions occurring on the system 667 during outage conditions. The Project has undergone WECC's Three Phase Ratings Process, and has been approved by WECC for Phase 3-"Construction 668 Phase" status as part of the overall Energy Gateway Transmission Expansion 669 670 Project. This WECC approval is necessary as it allows the company to 671 interconnect the Project to the wider transmission system in the area and to 672 reliably operate the Project at its approved ratings. The Project is widely regarded 673 as a necessary interconnection point to support the long-term transmission

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- 674 expansion planning established in the WECC Region plans<sup>16</sup> and in the most
- 675 recent Northern Tier Transmission Group sub-regional plan.
- 676 <u>http://nttg.biz/site/index.php?option=com\_docman&task=cat\_view&gid=308&Ite</u>
- 677 <u>mid=31</u>

#### 678 **OTHER BENEFITS**

- Q. Will the Transmission Project provide increased transmission system
   capacity and improved reliability for the Company's wholesale transmission
   customers?
- Yes. Utah Associated Municipal Power Systems ("UAMPS"), Utah Municipal 682 A. 683 Power Agency ("UMPA"), and Deseret Generation & Transmission, Inc. 684 ("DG&T") rely on Utah-based generation and are transmission dependent utilities 685 that depend the Company's transmission system to serve loads throughout the 686 state including those in southwest Utah. The Project and the Energy Gateway 687 Project overall will enable the Company to continue to meet these requirements as 688 well as its contractual OATT service obligations to PacifiCorp Energy, UAMPS, 689 UMPA, and DG&T. The Project's added transfer capacity is essential to the 690 future reliable electrical service to these entities. The customer demand served by 691 the Project for each of those respective entities is depicted in Exhibit RMP (DTG-6). 692

<sup>&</sup>lt;sup>16</sup> <u>http://www.wecc.biz/committees/BOD/TEPPC/SCG/Shared%20Documents/Forms/AllItems.aspx.</u>

## 693 Q. Will the Transmission Project provide other benefits to customers and the694 public overall?

695 Yes. As has been seen in the West and other parts of the country, the transmission Α. 696 grid can be affected in its entirety by what happens on an individual transmission 697 line or path. For example, the transmission system between southern and northern 698 Utah is comprised of several individual transmission lines or line segments. A 699 single outage on any of the individual lines or line segments due to storm, fire, or 700 other external human interference can and does cause significant reductions in 701 transmission capacity and can negatively impact the Company's ability to serve 702 customers. In the event of a line outage, the redundancy provided by the Project 703 will allow the Company to continue to meet native load service obligations and 704 continue to meet other contractual obligations to third parties. Strengthening this 705 path and increasing system redundancy with the new transmission line will 706 benefit all customers due to these factors.

#### 707 Q. Are there other benefits you see from this Project?

A. Yes. While this Project provides the next necessary increment of transmission
capacity in the area, it also supports and complements other future transmission
investments that are currently proposed by the Company and other utilities in the
region. The Energy Gateway Project, which includes this Project, positions the
Company to be strongly interconnected to other regional projects currently being
planned and provides options for access to additional resources.

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## Q. Would the Company still proceed with this Project even if other segments of Energy Gateway are delayed or not completed?

A. Yes. The Project is required to reliably serve existing and future customer demand
and must be constructed even if other Energy Gateway segments are not
completed. Further the benefits I have stated above related to the project are
independent of benefits provided by other Energy Gateway segments.

## Q. Please explain why a CPCN is necessary now for a project that is not scheduled for completion until June 2015.

722 A. Because of the economics of building transmission lines, additional transmission 723 facilities typically come in large blocks rather than small increments. The 724 Company is an essential service provider and as such develops its long-range 725 plans to meet customer service requirements. The Company is required by NERC 726 and WECC to plan in advance of our growing customers' demand for electrical 727 energy. As part of this process, the Company plans segments of transmission 728 projects, such as the Sigurd to Red Butte 345 kV Project, in increments which are 729 standard in the industry and because large infrastructure additions like the Project 730 require long lead times in order to meet anticipated energy demands. These large 731 additions are complex and require long range project planning to incorporate 732 siting, permitting, the NEPA process, design, material ordering, and logistics, and 733 because of the physical length of the Project and related environmental and terrain 734 considerations, construction will require multiple years. Scheduling and planning 735 and constructing infrastructure projects in this manner helps reduce overall project 736 costs and thus costs to our customers.

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#### 737 STATUS OF PERMITS FROM LOCAL GOVERNMENT ENTITIES

## Q. What is the current status with regard to obtaining the necessary permits from local government entities?

740 A. The Company has filed a right-of-way permit application with the BLM and 741 USFS. As noted, these filings triggered the need to conduct the EIS as part of the 742 federal process. The draft EIS was published for public review and comment in 743 May, 2011, with the issuance of a final EIS scheduled in October 2012. It is 744 anticipated that the Records of Decision for the Project will be issued by both the 745 BLM and USFS in late December 2012. The Company believes the BLM's 746 decision (as the lead agency in the EIS process) will result in the issuance of 747 rights-of-way and authorizations necessary for the Company to begin construction 748 on federally-administered lands located along the transmission route. The 749 Company has or will receive the required consents, franchises, and permits from 750 all of the local governmental entities having jurisdiction over the proposed 751 alignments for the Project. The Company has obtained conditional use permits 752 from the following local governmental entities: Beaver County, Iron County, 753 Millard County, Sevier County, Washington County, and Richfield.

In addition to the conditional use permits, the Company is in the process of obtaining the required consents and permits from the State of Utah which will be obtained once the final transmission line alignment has been identified. Additionally, any permits and approvals required from State agencies for actual construction and operation of the Project will be obtained in the ordinary course of development. These required consents and permits may include, but may not be

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limited to, stream alternation permits from the Utah Department of Natural
Resources, highway encroachment permits from the Utah Department of
Transportation, storm water permits from the Utah Department of Environmental
Quality, right of way grants from the Utah School and Institutional Trust Lands
Administration, and approvals from the State Historic Preservation Office of
Utah.

Based on the current routing plan, these are the only permits, franchises and consents required for the Project. Should a routing change resulting from the environmental approval process require any additional local consents, franchises, or permits, the Company will immediately seek such approval. As required by Utah Code Ann. 54-4-25(4)(a), the Company will provide notice to the Commission in such event.

772 **RATE TREATMENT AND PRUDENCE REVIEW** 

Q. Is the Company seeking a prudence finding or a determination of rate
treatment for the cost of the Transmission Project at this time?

- A. No, not at this time. A request for cost recovery will be made in a future general
  rate case or major plant addition filing. The appropriate prudence review will be
  made in that proceeding.
- 778 Q. How does the Company plan to recover the cost of the Project when it is779 completed?
- A. The Company plans to include the total Project cost as part of its FERC
  transmission rate base with rates established under a formula approved by the
  FERC. Under this rate all network customers are charged for use of PacifiCorp's

total transmission system based on each network customer's respective energydemand on the system.

### 785 CONCLUSION AND RECOMMENDATION

#### 786 Q. What do you recommend?

- A. I recommend that the Commission find and conclude that the Project is needed in
  order for the Company to provide efficient and reliable service to its customers in
  southwest Utah and throughout the state, and that the Project is in the public
  interest. Based on those findings and conclusions, I recommend that the
  Commission grant the Company a CPCN for the Project.
- 792 Q. Does this conclude your direct testimony?
- 793 A. Yes.