

**BEFORE THE PUBLIC SERVICE COMMISSION OF UTAH**

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In the Matter of the petition of )  
Desert Power, L.P. for approval of )  
a contract for sale of capacity and )  
energy from it's proposed QF facilities)

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Docket No. 04-035-04

**REBUTTAL TESTIMONY OF KENNETH T. HOUSTON**

August 25, 2006

1 **Q. Please state your name and business address.**

2 A. My name is Kenneth T. Houston. My business address is 700 N.E.  
3 Multnomah, Suite 550, Portland, Oregon 97232.

4 **Q. Please describe your educational background and work**  
5 **experience.**

6 A. I received a Bachelor of Science Degree in Electrical Engineering  
7 from St. Mary's University in San Antonio in 1982. I received a  
8 Master of Science Degree in Management from Troy State University  
9 in 1996. I am a registered professional engineer in electrical  
10 engineering in the states of Texas, New Mexico, and Oregon. I have  
11 worked for three investor owned utilities over my 24 year career and  
12 joined PacifiCorp in 2003. I have held various engineering and  
13 management positions in operations, design, power supply, and  
14 transmission.

15 **Q. For whom do you work?**

16 A. I am Director, Transmission Services for PacifiCorp. I manage the  
17 group responsible for FERC Open Access Transmission Tariff  
18 ("OATT") compliance, including responding to customer requests for  
19 interconnection to the Company's transmission system. My

20 department also reviews and responds to customer requests for  
21 transmission service on the Company's transmission system.

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

23 A. The purpose of this rebuttal testimony is to respond to direct  
24 testimony filed on August 18, 2006 by Charles Darling and Roger J.  
25 Swenson on behalf of Desert Power, L.P.

26 **Q. Please summarize your rebuttal testimony.**

27 A. My testimony clarifies and corrects many of the assertions made by  
28 Desert Power regarding the interconnection studies conducted by  
29 PacifiCorp on behalf of Desert Power. I briefly summarize the  
30 interconnection procedures used by PacifiCorp including the current  
31 FERC OATT procedure. I also discuss the various steps and actions  
32 taken by PacifiCorp in an effort to expedite the studies and  
33 interconnection of the Desert Power project. I explain that those  
34 efforts were only required because of the sixteen and one half months  
35 delay caused by Desert Power's actions, including:

- 36 • A six month delay in application for interconnection service  
37 calculated from the date the PPA was signed, and nine months  
38 from when PPA negotiations began in earnest, to the actual  
39 date the interconnection request was made;

- 40                   • A three and one half month delay during the interconnection  
41                   study process calculated from the date the interconnection  
42                   application was submitted until the generator technical data  
43                   was finally provided to PacifiCorp; and
- 44                   • A four month delay during the interconnection study process  
45                   calculated from the date PacifiCorp provided an executable  
46                   interconnection agreement until the date comments were  
47                   received back from Desert Power.

48   **Q.   On Page 2, Line 24 of Mr. Swenson’s Direct Testimony, he asserts**  
49   **that PacifiCorp “has made it impossible for Desert Power to**  
50   **perform under the contract....” Is that statement accurate?**

51   A.   No.

52   **Q.   Does PacifiCorp Transmission Services have any interest in**  
53   **preventing Desert Power’s interconnection of its new steam**  
54   **turbine generator?**

55   A.   No. PacifiCorp Transmission Services manages PacifiCorp’s  
56   Transmission System as a separate function from PacifiCorp’s  
57   Commercial & Trading, Trading & Origination business unit, also  
58   know as the Merchant function. In 1996, FERC issued Order No.  
59   888, directing the functional separation of transmission

60 responsibilities from marketing and trading responsibilities within  
61 vertically integrated electric utilities that owned transmission systems.  
62 Because of this functional separation mandated by FERC,  
63 interconnection and power purchase agreements are handled by  
64 different functions within the Company. Interconnection to the  
65 Company's transmission system is coordinated by PacifiCorp  
66 Transmission Services, as the transmission function. Power purchase  
67 agreements are handled by the Merchant function. FERC regulations  
68 require that PacifiCorp Transmission Services employees function  
69 independently of PacifiCorp's Merchant function employees.  
70 Additionally, PacifiCorp Transmission is obligated to treat all  
71 customers requesting service in priority order and give no preference  
72 to any one customer over another.

73 **Q. Is Mr. Swenson completely accurate in his summary of the**  
74 **interconnection process on Page 2, line 37 of his Direct**  
75 **Testimony?**

76 A. No. The current OATT process requires developers to submit an  
77 application and deposit to hold a place in queue. The application  
78 requires the developer to provide project details including generator  
79 technical data and site control. PacifiCorp must acknowledge receipt

80 of the request within five business days. Once a developer's  
81 application is deemed complete a scoping meeting will be scheduled  
82 with the parties within ten business days. PacifiCorp must coordinate  
83 studies and study results with input from other transmission providers  
84 who may be impacted. A feasibility study agreement is submitted to  
85 the customer within thirty days of their completed application. Once  
86 the feasibility study agreement is signed and the study costs are  
87 funded by the developer, PacifiCorp has forty five calendar days to  
88 complete the study. Once the feasibility study is completed, both  
89 parties review the study results within 10 days after which time  
90 PacifiCorp issues a final feasibility study report. If the time frame for  
91 completing the study cannot be met by PacifiCorp, notice is provided  
92 to the customer with an updated delivery date and the reason for the  
93 study delay.

94 A similar process is used to complete the next step, which is the  
95 system impact study, however PacifiCorp has 90 days to complete the  
96 study work after a system impact study agreement is signed.

97 The final step in the process is the facility study, where PacifiCorp  
98 and the customer finalize the full scope of both parties work, the final  
99 cost estimates and enter into an interconnection agreement. The study

100 procedure allows either ninety or one hundred eighty days for this  
101 study depending upon the cost estimate accuracy selected by the  
102 customer. Negotiations over the interconnection agreement can add  
103 up to 60 additional days.

104

105 **Q. Did PacifiCorp follow its Open Access Transmission Tariff study**  
106 **process to the letter in the case of Desert Power?**

107 A. No. PacifiCorp agreed to accelerate the OATT interconnection  
108 process for Desert Power's Qualifying Facility in an attempt to help  
109 Desert Power meet its very aggressive schedule.

110 **Q. How and why did PacifiCorp deviate from the standard OATT**  
111 **requirement?**

112 A. The standard requirement for studies in the OATT procedure is a 45  
113 day feasibility study, a 90 day system impact study, and then  
114 typically, a 90 day facility study. This does not include additional  
115 time for meetings, agreement development and review, or report  
116 reviews. Each step in the process has a specific time frame and the  
117 process defines the various communications, steps, deposits, and  
118 agreements that are required. If the maximum allotted time for each  
119 step as defined in PacifiCorp's OATT is taken, the entire process,

120 from application until an interconnection agreement is signed, can  
121 take up to up to 480 days to complete. This can increase to 570 days  
122 if the customer requests greater specificity in the cost of facilities  
123 estimate in the facilities study. This is just the study process.  
124 Typically engineering, procurement, and construction does not begin  
125 on a project before an interconnection agreement is signed after the  
126 study process is completed. Due to the Desert Power schedule, it was  
127 clear early on that the standard OATT procedure would not be  
128 completed in time to meet Desert Power's requested in-service date.  
129 As a service to Desert, PacifiCorp agreed to attempt a 120 day  
130 combined system impact and facility study in an effort to meet Desert  
131 Power's requirements. By combining the system impact study and  
132 facility study it eliminates the need to execute separate study  
133 agreements and the associated time consuming steps in between.  
134 PacifiCorp believes the results from the expedited study process used  
135 in this case saved Desert Power at least nine months over the standard  
136 OATT procedure.

137 **Q. What would be the result if PacifiCorp had used the standard**  
138 **OATT requirement?**



139 A. First, Desert Power would have been removed from the queue at some  
140 point between February and June of 2005 for not providing the  
141 required generator technical data in a timely fashion. The OATT  
142 procedure defines the requirements, response times of the parties, and  
143 a cure period. The OATT procedure is structured to remove parties  
144 who fail to provide the required technical data in order to eliminate  
145 the ability for developers who are not fully committed to a project to  
146 hold a queue position and block others. Second, a 45 day feasibility  
147 study would have been completed. Third, once the feasibility study  
148 was completed a 90 day system impact study would have been  
149 conducted. Fourth, a separate 90 or 180 day facility study would have  
150 been completed.

151 If PacifiCorp had followed the OATT procedure to the letter and both  
152 parties took the full allotted time, the Desert Power facility study  
153 would have been delivered around the end of September 2006 at  
154 which time an interconnection agreement and/or an engineering and  
155 procurement agreement would have been offered to Desert Power.  
156 However, normal delays in review, which are very typical in  
157 PacifiCorp's experience, may have extended this date. Using standard

158 OATT procedures, construction of the interconnection facilities would  
159 begin once the interconnection agreement is signed.

160 **Q. What additional steps did PacifiCorp take to expedite the Desert  
161 Power study schedule ?**

162 A. In addition to offering a combined system impact and facility study,  
163 PacifiCorp did not perform a feasibility study. This is an option under  
164 the OATT. Additionally, PacifiCorp offered and executed an  
165 engineering and procurement agreement with Desert Power allowing  
166 detailed engineering to start prior to execution of a large generator  
167 interconnection agreement.

168 As the study process went on, PacifiCorp agreed to allow Desert  
169 Power to buy steel poles and switches because Desert Power believed  
170 it could achieve a better delivery date than PacifiCorp. By Desert  
171 Power's own admission (Page 7: Lines 153-160) "PacifiCorp did  
172 exert much effort to try to come up with means to track down the  
173 needed long lead time items."

174 **Q. Mr. Swenson states that Desert Power began the interconnection  
175 process in enough time to meet their in-service dates. Do you  
176 agree?**

177 A. Based on Desert Power's performance during this process, it is  
178 apparent that this isn't an accurate statement. Desert Power began the  
179 process by failing to make a timely interconnection request.  
180 PacifiCorp's Utah Rate Schedule 38 encourages potential Qualifying  
181 Facility developers to initiate a request for interconnection as early in  
182 the planning process as possible to ensure that necessary  
183 interconnection arrangements proceed in a timely manner on a parallel  
184 track with negotiation of the power purchase agreement. Desert  
185 Power waited nine months from when PPA negotiations began in  
186 earnest, six months after executing the PPA and four months after the  
187 Effective Date of the PPA before submitting its interconnection  
188 request. This left PacifiCorp with only ten months until Desert  
189 Power's requested in service date to study the interconnection request,  
190 execute an interconnection agreement, and construct the  
191 interconnection facilities. Following that, Desert Power failed to  
192 provide the generator data required to perform the interconnection  
193 study until June 2005, reducing that window another four months.  
194 Desert Power also failed during the process to provide timely  
195 document review and comments, which resulted in further delays.

196 **Q. Mr. Darling claims that Desert Power's delay in submitting the**  
197 **request for interconnection was beyond its control because it was**  
198 **difficult to locate a generator that met its timing, size, and heat**  
199 **rate requirements. Do you agree?**

200 A. No. Desert Power did not have to execute the PPA with PacifiCorp  
201 promising a fixed online date based on a non-existent generator. Mr.  
202 Darling admits that Desert Power signed the PPA then went looking  
203 for the specific generator to meet its needs. This is not the experience  
204 PacifiCorp Transmission Services has with other interconnection  
205 requests. Other developers plan their facility, request interconnection  
206 with an identified generator, and begin to, separately, negotiate power  
207 sales. In fact, most developers choose to enter the interconnection  
208 queue prior to having a signed PPA so they have a good idea of the  
209 interconnection costs, construction schedule, and requirements before  
210 negotiating a sales price for their product.

211 **Q. How much time have other interconnection projects in**  
212 **PacifiCorp's queue taken to process from the initial interconnect**  
213 **request to completion of construction under the new OATT**  
214 **procedures?**

215 A. PacifiCorp Transmission Services is currently coordinating and  
216 studying the impacts of thirty eight requests for interconnection and  
217 another thirty five requests for transmission service. On top of those  
218 requests, PacifiCorp Transmission Services is coordinating for  
219 PacifiCorp's service to its native load in Utah and other transmission  
220 providers' interconnection requests to the PacifiCorp system. Based  
221 on that experience, actual similar projects that PacifiCorp has  
222 completed have averaged 633 days from start of the study process to  
223 the project being in service.

224 **Q. Mr. Swenson notes that the prior Desert Power facility was**  
225 **studied and installed in six months. In your opinion, does that**  
226 **experience provide a reasonable gauge for estimating the time and**  
227 **requirements for its 2005 interconnection request?**

228 A. No. Desert Power's previous interconnection was completed prior to  
229 FERC issuing Order 2003 and before recent emphasis on system  
230 reliability following the Northeast Blackout. Minimal research by  
231 Desert Power would have indicated that the continued assumption of a  
232 six month interconnection process was improbable. Even a perfectly  
233 executed process without reliability or safety issues would take 480  
234 days according to the current OATT procedure. Construction would

235 only follow the execution of an interconnection agreement. Desert  
236 Power, as a developer, should be aware of the additional material  
237 delivery and construction requirements for projects of this nature and  
238 the potential delays driven by market conditions.

239 **Q. Mr. Darling claims that Desert Power merely wanted to amend its**  
240 **preexisting interconnection agreement (Page 5: Lines 92-94). Do**  
241 **additions of generators near an existing interconnection take less**  
242 **time to study?**

243 A. It depends on the size of the generator, other load and generation in  
244 the vicinity, and the local transmission facilities. Desert Power stated  
245 in its request that the expanded plant will be a Qualifying Facility  
246 under the Public Utilities Regulatory Policy Act. PacifiCorp took this  
247 statement to mean that Desert Power was requesting interconnection  
248 as a Qualifying Facility. All interconnection requests, no matter  
249 whether they are from a Qualifying Facility or an independent power  
250 producer, must submit a new application for the entire capacity of the  
251 facility. That new request is studied for the entire impact to the  
252 transmission system. Desert Power may think that a 40% increase is  
253 small, but it could have significant impacts on radial lines with  
254 significant load and other generation. PacifiCorp also had to

255 coordinate with U.S. Magnesium Corporation as an affected system  
256 because of its ownership of the Rowley Substation.

257 **Q. Did Desert Power cooperate with PacifiCorp in an effort to**  
258 **expedite the study process.**

259 A. No. Desert Power has been consistently slow to respond to  
260 PacifiCorp's requests for generator data and in its review of draft  
261 documents.

262 For example, it took Desert Power almost four additional months,  
263 despite repeated requests, to provide the technical data necessary to  
264 initiate the study.

265 In addition, it took Desert Power six weeks to review and sign the  
266 Engineering and Procurement Agreement. Finally, Desert Power did  
267 not show any urgency in the interconnection agreement drafting  
268 process.

269 **Q. Can you elaborate on each delay?**

270 A. Yes. The generator technical data should have been provided with the  
271 interconnection application submitted in February 2005. The data was  
272 finally provided in enough detail for PacifiCorp to initiate studies in  
273 June 2005. In order to begin design and procurement of long lead  
274 time materials, PacifiCorp offered an engineering and procurement

275 agreement to Desert Power on November 29, 2005 and it was finally  
276 signed, funded, and returned by Desert Power on January 13, 2006.  
277 The first draft of an interconnection agreement was provided to Desert  
278 Power on April 11, 2006, with a second draft provided on May 22,  
279 2005. Desert Power did not provide comments until June 28, 2006.

280 **Q. Mr. Darling claims that the delay in the project was due to the**  
281 **redesign of the interconnection. Do you agree?**

282 A. Not at all. The redesign caused a one month delay, at the most.  
283 Desert Power's failure to plan for the interconnection process and  
284 purchase a generator before committing to the PPA caused the largest  
285 delay in the process.

286 **Q. Would you please discuss the reasons for and timing of the**  
287 **redesign.**

288 A. On September 23, 2005, PacifiCorp provided a draft version of the  
289 system impact portion of the study. It contained a sketch of the  
290 proposed configuration of the interconnection as originally requested  
291 by Desert Power. That configuration was reviewed by operations'  
292 personnel. Based on past knowledge of employee safety issues and  
293 the lack of disconnect switches necessary for operational control and  
294 to perform routine maintenance at the site, operations' personnel



295 strongly recommended a redesign of the interconnection. There were  
296 also concerns regarding the operation of the system when there were  
297 three customers at the end of the same line and the operations of two  
298 of those customers could cause operational and unplanned outages for  
299 the other customers. Additionally, there were concerns regarding the  
300 proposed metering scheme that would require three additional  
301 metering stations and a complicated communications scheme. The  
302 proposed re-design of the interconnection layout resolved each of  
303 these issues.

304 PacifiCorp informed Desert Power of the proposed redesign during a  
305 conference call on October 20, 2005. On November 8, 2005, Desert  
306 Power proposed a slightly different configuration and during a  
307 subsequent conference call on November 15, 2005 PacifiCorp  
308 accepted Desert Power's proposed reconfiguration. Therefore, the  
309 redesigned configuration delayed the project by, at the very most, no  
310 more than one month.

311 **Q. What were PacifiCorp safety concerns exactly?**

312 A. PacifiCorp has had employees injured due to contamination in the  
313 area. The contamination also caused increased maintenance  
314 requirements because of corrosion. That maintenance had to be done

315 at great expense due to the need for extended outages to allow  
316 specially trained personnel time to clean the equipment. Those earlier  
317 problems were resolved with the sale of the Rowley Substation to  
318 U.S. Magnesium Corporation. However, the original proposed  
319 configuration for the Desert Power project would have required the  
320 installation of a PacifiCorp owned in-line breaker at the Rowley  
321 Substation, raising the same safety and maintenance issues resolved  
322 by the sale of the Rowley Substation.

323 **Q. Did Desert Power raise the issue of a redesign related project**  
324 **delay when PacifiCorp provided the proposed redesign in October**  
325 **2005?**

326 A. No. Desert Power commented on the design and provided an  
327 alternative that PacifiCorp accepted.

328 **Q. Mr. Darling testifies that the interconnection redesign required**  
329 **PacifiCorp to start over with interconnection studies, do you**  
330 **agree?**

331 A. No. The redesign involved the physical arrangement of the  
332 transmission connection to the facility and did not impact the study  
333 work done to date. The changes required some design analysis and  
334 modification to the scope of work which were completed in the next

335 draft of the Impact and Facilities Study Report. Power flow and short  
336 circuit studies were not redone. As I noted, the redesign process,  
337 including reaching agreement on changes with Desert Power, took  
338 only one month.

339 **Q. Mr. Swenson states that he was frustrated that PacifiCorp had**  
340 **not thought through many of the issues related to Desert Power's**  
341 **interconnection request and the procurement of necessary**  
342 **equipment and licenses. What is your reaction to this?**

343 A. This statement doesn't reflect, as Mr. Swenson should know, industry  
344 practice and experience. PacifiCorp studies multiple interconnection  
345 requests each year and the studies conducted by our staff identify the  
346 issues and requirements for each interconnection. Mr. Swenson's  
347 statement indicates an expectation that PacifiCorp anticipate all the  
348 issues and have developed plans to resolve them before even  
349 conducting the studies. Procurement of equipment and defining the  
350 requirements for communications sites, including license  
351 requirements, cannot be fully known until the analysis is completed.  
352 Even if PacifiCorp could anticipate all the issues and take action to  
353 procure equipment ahead of the customer committing to the project,

354 this puts the customer, PacifiCorp, and PacifiCorp’s retail customers  
355 at risk if Desert Power decided to cancel or defer its project.

356 **Q. Was the redesign of the interconnection configuration consistent**  
357 **with standard practice and the OATT procedures?**

358 A. Yes. OATT section 39.4 on Modifications specifically provides that:  
359 “during the course of the interconnection studies, either  
360 interconnection customer or transmission provider may identify  
361 changes to the planned interconnection that may improve the costs  
362 and benefits (including reliability) of the interconnection, and the  
363 ability of the proposed change to accommodate the interconnection  
364 request. To the extent the identified changes are acceptable to  
365 transmission provider and interconnection customer, such acceptance  
366 to not be unreasonably withheld, transmission provider shall modify  
367 the point of interconnection and/or configuration in accordance with  
368 such changes and proceed with any re-studies necessary”.

369 **Q. Mr. Swenson agrees that it is not reasonable to expect PacifiCorp**  
370 **to order equipment or complete design work before executing an**  
371 **interconnection agreement and receipt of pre-payment or a**  
372 **deposit (P7: Line 148), but suggests that PacifiCorp should have**

373 **identified all long-lead items to Desert Power up front. Is he**  
374 **correct?**

375 A. No. PacifiCorp does not identify what equipment is required for an  
376 interconnection until it completes its studies. Defining the  
377 requirements, including material requirements, is a key product of the  
378 studies themselves. If PacifiCorp were to make assumptions on  
379 required equipment before completing its studies, customers and  
380 PacifiCorp have a high risk of procuring items that may not be  
381 required following the final design.

382 **Q. Mr. Darling describes the post-agreement search process Desert**  
383 **Power went through to find a steam turbine for their project. Did**  
384 **that delay the interconnection process?**

385 A. Yes. Since Desert Power had not chosen the turbine and generator for  
386 its project, it could not timely provide the information required for the  
387 interconnection study.

388 Generator technical data is required as part of the interconnection  
389 application. PacifiCorp cannot conduct a meaningful interconnection  
390 study without it.

391 **Q. Could Desert Power have taken interim steps to correct that**  
392 **deficiency and enable the study to begin?**

393 A. Past developers have provided typical generator data to PacifiCorp  
394 and interconnection studies have been initiated using typical data. If a  
395 developer later purchases a different design, re-study may be required.  
396 Desert Power could have initiated the study at the time the PPA was  
397 signed, but would have been required to provide typical data and run  
398 the risk of conducting new studies if a different generator was  
399 ultimately purchased. Even with some risk of re-study, an earlier  
400 interconnection request would have provided Desert Power with vital  
401 information about interconnection requirements, scope, costs, and a  
402 reasonable schedule.

403 **Q. Describe the efforts of the parties to reach agreement on the scope**  
404 **of work during the facility study phase of the project?**

405 A. A key step in the facility study is to define the duties and obligations  
406 of each party during the construction phase of the project, which  
407 include design, procurement, and construction of key components of  
408 the interconnection. The first discussion regarding scope of work  
409 took place during a scoping workshop held on October 6, 2005. A  
410 first draft of the scope of work, which included PacifiCorp's  
411 configuration change and Desert Power's request to design and  
412 construct the three-way switch and corresponding structure, was sent

413 to Desert Power on January 18, 2006. On March 9, 2006 and March  
414 17, 2006, Desert Power requested additional scope revisions which  
415 transferred responsibility for the communications structure at the  
416 generating facility to Desert Power and transferred responsibility to  
417 design and procure revenue metering to PacifiCorp, with Desert  
418 power installing the revenue metering. As PacifiCorp witness Doug  
419 Bennion discusses in his testimony, subsequent scope changes,  
420 including temporary revenue metering and communications work-  
421 arounds, were proposed to shorten the schedule. However, they were  
422 not pursued when Desert Power determined it would not meet its  
423 commercial operation date.

424 **Q. Has an interconnection agreement been signed?**

425 A. No. Under the OATT, there is a 60 day timeline, including an  
426 optional 30 day negotiation period, for the execution of an  
427 interconnection agreement. The process has taken longer with Desert  
428 Power. PacifiCorp provided Desert Power with a generic QF version  
429 of the Large Generation Interconnection Agreement (“LGIA”) on  
430 December 12, 2005. A first draft of the LGIA, with Desert Power  
431 attachments, was sent to Desert Power on April 11, 2006. On May  
432 22, 2006, PacifiCorp sent a second draft and requested comments. On

433 June 28, 2006, Desert Power sent a host of comments to PacifiCorp,  
434 including proposed new dates for commercial operation. On July 12,  
435 2006, PacifiCorp held a conference call with Desert Power to discuss  
436 Desert Power's comments. Desert Power filed its Emergency Petition  
437 while PacifiCorp was preparing written responses to those comments.

438 **Q. Do you have any concluding statements?**

439 A. PacifiCorp completed its work on behalf of Desert Power in an  
440 expedited manner, including deviating from the standard OATT  
441 process, and the results, including the time frame, were reasonable  
442 and foreseeable. While Messrs. Swenson and Darling both assert that  
443 the interconnection re-design of their facility was the sole cause of the  
444 Desert Power non-performance, in reality this re-design was required  
445 to ensure employee safety, reliability, and long term operational needs  
446 and resulted, at the most, in a one month delay in the project. The  
447 interconnection process for Desert Power included typical issues that  
448 are addressed as part of the normal interconnection process. It was  
449 Desert Power's own actions, not those of PacifiCorp, that caused the  
450 project delay. For example, Desert Power was responsible for nearly  
451 sixteen and one half months of delay in the project as a result of  
452 actions which include:



- 453                   • A six month delay in application for interconnection service  
454                   calculated from the date the PPA was signed, and nine months  
455                   from when PPA negotiations began in earnest, to the actual  
456                   date the interconnection request was made.
- 457                   • A three and one half month delay during the interconnection  
458                   study process calculated from the date the interconnection  
459                   application was submitted until the generator technical data  
460                   was finally provided to PacifiCorp.
- 461                   • A four month delay during the interconnection study process  
462                   calculated from the date PacifiCorp provided an executable  
463                   interconnection agreement until the date comments were  
464                   received back from Desert Power.

465                   The reason for the project delays was, in reality, Desert Power’s  
466                   failure to plan adequately for the requirements of the project,  
467                   including signing a PPA without having, as Mr. Swenson states, the  
468                   “critical information” on the steam turbine.

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

470                   A. Yes it does.