

16 **Q PLEASE DESCRIBE YOUR EDUCATIONAL BACKGROUND AND**
17 **EXPERIENCE.**

18 A This information is included in Appendix A to my testimony.

19

20 **Q WHAT IS THE PRIMARY PURPOSE OF YOUR DIRECT TESTIMONY IN**
21 **THIS PROCEEDING?**

22 A The primary purpose of my direct testimony is to examine the natural gas
23 hedging strategies employed by PacifiCorp (or "COMPANY") for natural gas
24 costs during the test period, beginning July 1, 2011 and ending June 30, 2012
25 to determine whether PacifiCorp's strategies and practices were prudent.

26

27 **Q WHAT DO YOU CONCLUDE?**

28 A I conclude that PacifiCorp failed to recognize the importance of the goal of
29 cost minimization in its own hedging program for natural gas, failed to react
30 timely to changes in the market, and failed to diversify.

31

32 **Q WHAT DO YOU RECOMMEND BASED ON THESE CONCLUSIONS?**

33 A The Public Service Commission of Utah ("Commission") should find the
34 following:

35 • 33% of natural gas requirements should be purchased at market. This
36 produces a disallowance of \$47.5 million system-wide or \$19.7 million
37 for Utah which is reasonable for losses associated with PacifiCorp's

38 imprudent hedging program (swaps) for natural gas rated to generate
39 electricity.

40 • The reasonable range for imprudence disallowance for this case is
41 buying 25% to 40% of natural gas at market.

42 • The prudence review criteria suggested are reasonable.

43

44 **Q HOW DO YOU ORGANIZE THE REMAINDER OF YOUR DIRECT**
45 **TESTIMONY?**

46 A. In Section II, I summarize PacifiCorp's current and recent historical hedging
47 policy and practices concerning natural gas as a fuel resource for electricity
48 generation.

49

50 In Section III, I develop and recommend criteria for a prudence review of the
51 hedging policy and practices and market purchases of an electric utility
52 concerning natural gas as a fuel resource to generate electricity.

53

54 In Section IV, I apply the prudence review criteria to PacifiCorp's hedging
55 policy and practices.

56

57 In Section V, I present conclusions and recommendations based on my
58 prudence review analysis of PacifiCorp's hedging policy and practices
59 concerning natural gas as a fuel resource.

60

61 **II. PACIFICORP'S HEDGING PROGRAM.**

62 **Q WHAT GROUP OR COMMITTEE AT PACIFICORP HAS OVERSIGHT**
63 **CONCERNING ITS HEDGING POLICY AND PRACTICES RELATING TO**
64 **NATURAL GAS AS A FUEL RESOURCE FOR ELECTRICITY**
65 **GENERATION?**

66 A The PacifiCorp Energy Risk Oversight Committee ("EROC") has oversight
67 responsibilities concerning its hedging program relating to natural gas as a fuel
68 resource for electricity generation. I have reviewed the confidential minutes of
69 meetings of the PacifiCorp Energy Risk Oversight Committee starting in June
70 2006.

71

72 **Q HOW SUCCESSFUL OR UNSUCCESSFUL HAS PACIFICORP'S NATURAL**
73 **GAS HEDGING PROGRAM BEEN?**

74 A PacifiCorp's program has been significantly unsuccessful during the past few
75 years because it has failed to respond to falling natural gas prices and it lacks
76 financial diversification. As shown on UIEC witness Mr. Widmer's Exhibit
77 UIEC (MTW-5), PacifiCorp's program of using natural gas swaps has lost
78 approximately [REDACTED] since 2006.

79

80 **Q HAS THERE BEEN CONCERN EXPRESSED IN THE PAST REGARDING**
81 **PACIFICORP'S UNSUCCESSFUL NATURAL GAS HEDGING PROGRAM?**

82 A. Yes. Various parties in Utah have expressed and continue to express serious
83 concerns about these significant losses. As a result of issues raised in the

84 2008 general rate case, Docket No. 08-035-38, the Commission ordered
85 PacifiCorp to open a separate docket to be devoted to studying the natural
86 gas hedging practices and strategies of the Company. This was Docket No.
87 09-035-21. Then, in the energy balancing account (“EBA”) docket, Docket No.
88 09-035-15, numerous parties complained about the Company’s natural gas
89 hedging practices and requested that the Commission investigate further
90 before authorizing an EBA. In its final order in that docket, the Commission
91 decided to defer investigation into the Company’s natural gas hedging
92 practices until this current rate case, Docket No. 10-035-124. The
93 Commission reiterated this decision in its order on rehearing in docket No. 09-
94 035-15.

95

96 **Q DID PACIFICORP SHOW ANY INDICATION THAT THEY RECOGNIZED**
97 **THE CONCERNS?**

98 PacifiCorp management clearly acknowledges concerns in Utah regarding its
99 risk management and hedging programs.¹ However, despite the activity
100 taking place before the regulators, PacifiCorp failed to implement any
101 changes, such as leaving a percentage of its portfolio open to market, and
102 apparently didn’t even consider it worth discussing at an EROC meeting until
103 May of 2010.

¹ See confidential minutes of May 11, 2010 meeting of the PacifiCorp Risk Oversight Committee.

104

105 **Q PLEASE SUMMARIZE THE SIGNIFICANT FEATURES OF PACIFICORP'S**
106 **CURRENT AND RECENT HISTORICAL HEDGING POLICY AND**
107 **PRACTICES CONCERNING NATURAL GAS AS A FUEL RESOURCE FOR**
108 **ELECTRICITY GENERATION.**

109 **A** Based on my review of PacifiCorp's hedging policy and procedure documents,
110 discovery in this docket, testimony in the last several cases where hedging
111 issues were discussed, and relevant Commission orders, the following are
112 some significant features of PacifiCorp's hedging programs:

113 (1) The Company executes financial hedges up to 48 months forward with
114 the goal to be 100% financially hedged in swaps two years in advance.

115 (2) The Company states that its primary goal for its hedging program for
116 natural gas is price stability and associated reduction in price volatility;

117 (3) The Company has failed to address effectively the important goal of
118 cost minimization;

119 (4) The Company has failed to react during periods of falling and expected
120 declining prices of natural gas, which harms the captive ratepayers; and

121 (5) The Company's hedging program lacks a diversified financial approach,
122 including buying at market, which would provide the flexibility to balance the
123 goals of cost minimization and price stability.²

124

² My summary is based on a review of various testimonies presented in previous proceedings before the Public Service Commission of Utah. Specifically, see the testimonies of Douglas Wheelwright, Utah Division of Public Utilities, in Docket No. 09-035-23 and Docket No. 09-035-15.

125 **Q PLEASE DESCRIBE PACIFICORP'S HEDGING PROGRAM AND USE OF**
126 **SWAPS.**

127 A I believe that the following summary discussion provided by Mr. Maurice
128 Brubaker in his direct testimony, pages 35-36, filed October 8, 2009, in Docket
129 No. 09-035-23, Public Service Commission of Utah, adequately summarizes
130 PacifiCorp's use of financial swaps in its natural gas hedging practices.

131 "RMP has followed a practice of entering into forward
132 commitments for the purchase of its forecasted natural gas
133 requirements. Its practice is to ramp up its price
134 commitments over a period of several years, with the level of
135 the commitment escalating over time. For example,
136 according to the 10-K report, issued in February 2009, as of
137 December 31, 2008, RMP ha[d] hedged 94% of its
138 forecasted financial exposure for the year 2009. For 2010,
139 PacifiCorp had hedged 48% of its forecasted physical
140 exposure and 85% of its forecasted financial exposure.
141 RMP does this either by contracting for a fixed price with a
142 supplier, or through the use of indexes and swaps. Under
143 the index and swap approach, RMP agrees to pay some
144 specified market index price to a supplier for the gas. At that
145 time, or a later time, it enters into a transaction with a third
146 party (counter party) to swap the index price for a fixed price
147 that is established at the time the financial transaction with

148 the third party takes place. The end result is the same,
149 namely that the price to be paid for the commodity when it is
150 delivered at a future time is established in advance.”

151

152 Based on this, regardless of whether the market price is higher or lower than
153 the swap price, RMP effectively pays the swap price. RMP pays the index
154 price to the supplier of physical natural gas. If its index price is lower than the
155 swap price, RMP pays the difference to the counter party on the swap
156 transaction. If the index price is higher than the swap price, the counter party
157 pays the difference to RMP. It is clear that the swap transaction with its fixed
158 price protects RMP from upswings in market prices, but it does not provide
159 RMP with the opportunity to benefit if market prices turn out to be lower than
160 the swap price. In short, the excessive reliance on the use of financial swaps
161 by PacifiCorp for its hedging program for natural gas unreasonably exposes
162 the utility to significant losses in a falling natural gas price environment and
163 ignores the important consideration of cost minimization.

164

165 **Q BASED ON THIS INFORMATION HOW DID YOU DETERMINE THE**
166 **COMPANY’S NATURAL GAS HEDGING PRACTICES WERE IMPRUDENT?**

167 **A** It is critical to apply a set of prudence review criteria to PacifiCorp’s practices
168 so that a fair and objective determination can be made. In the next section, I
169 develop those criteria.

170

171 **III. PRUDENCE REVIEW CRITERIA.**

172 **Q WHAT IS THE BASIC CONCEPT FOR DETERMINING PRUDENCE?**

173 A Prudence is a part of the overall basic business standards and practices that
174 energy utilities are required to follow that are commonly referred to as “good
175 utility practice.”³ The Federal Energy Regulatory Commission (“FERC”)
176 defines “Good Utility Practice” for regulated electric utilities in the following
177 manner:

178 Any of the practices, methods and acts engaged in or
179 approved by a significant portion of the electric utility industry
180 during the relevant time period, or any of the practices,
181 methods and acts which, in the exercise of *reasonable*
182 judgment in light of the facts known *at the time the decision*
183 *was made*, could have been expected to accomplish the
184 desired result at a reasonable cost consistent with good
185 business practices, reliability, safety and expedition. Good
186 Utility Practice is not intended to be limited to the optimum
187 practice, method, or act to the exclusion of all others, but
188 rather to be acceptable practices, methods, or acts generally
189 accepted in the region.⁴

190 Basic business standards and practices in this FERC definition are consistent
191 with and reflected in the definition of prudence found in Title 54, Section 54-4-

³ Jonathan A. Lesser and Leonardo R. Giacchino, Fundamentals of Energy Regulation, Public Utilities Reports, Vienna, Virginia, 2007, pp. 40-41.

⁴ FERC, Pro Forma Open Access Transmission Tariff (OATT), Appendix B (emph. added), 72 Fed. Reg. 12,266-12,531 (March 15, 2007) (to be codified at 18 C.F.R. pts 35 and 37).

192 4(4)(a) of the Commission statutes concerning prudence review, which is
193 presented later in my direct testimony.

194

195 **Q WHAT REGULATORY PRINCIPLES ARE INCORPORATED INTO GOOD**
196 **UTILITY PRACTICE FOR DETERMINING REVENUE REQUIREMENT?**

197 A Three important regulatory principles for determining the revenue requirement
198 for an electric utility include: (1) prudent management, (2) used and useful,
199 and (3) known and measurable.

200 The focus of my testimony is to develop specific criteria for prudence review
201 and apply the criteria to PacifiCorp's current and recent historical natural gas
202 hedging .

203

204 **Q PLEASE DEFINE THE PRINCIPLE OF PRUDENT MANAGEMENT.**

205 A The prudence of utility managerial decisions should be evaluated and judged
206 based on the reasonableness at the time that these business decisions were
207 made and based on the information that was available at that time. Prudence
208 review is clearly not an exercise in the application of hindsight regulation. A
209 prudent business decision reflects a reasonable policy decision made by a
210 business manager who considers information and analytical tools reasonably
211 available at the time of this decision.

212

213 **Q IN ADDITION TO THE CONCEPT OF GOOD UTILITY PRACTICE, ARE**
214 **THERE ANY OTHER CONCEPTS THAT SHOULD BE CONSIDERED IN**
215 **DETERMINING A REASONABLE REVENUE REQUIREMENT?**

216 A In this case, because PacifiCorp is a monopoly, economic regulation must
217 always be considered. The role of economic regulation of a monopoly is to
218 produce the results, in a reasonable manner, of a competitive market
219 concerning prices and earnings. Regulatory ratemaking is certainly not a cost
220 reimbursement scheme and should not insulate the regulated electric utility
221 from risks of conducting business. Economic regulation of a monopoly utility is
222 focused on encouraging efficient behavior and efficient outcomes, which are
223 consistent with the activities of a prudent business manager. Risk sharing and
224 risk balancing between the regulated utility and its customers is an important
225 aspect of economic regulation. A regulatory commission needs to ensure that
226 there is reasonable risk sharing and balancing when addressing a range of
227 economic issues in order to meet public interest concerns. As pointed out by
228 former Chairman Myron B. Katz of the Oregon Public Utility Commission, "The
229 principal objective of utility regulation is to protect consumers from the lack of
230 competition. It cannot be repeated often enough."⁵

231

⁵ See Public Utilities Reports Guide: Regulation, published by PUR, Inc., Vienna, Virginia, 1999, p. 3-10. UIEC Exhibit (JRM-1)

232 **Q BY COMBINING THE CONCEPTS OF GOOD UTILITY PRACTICE AND**
233 **ECONOMIC REGULATION, WHAT SPECIFIC EVALUATION CRITERIA**
234 **FOR A PRUDENCE REVIEW DO YOU RECOMMEND?**

235 A I propose that the following specific evaluation criteria be used:

- 236 (1) Apply relevant regulatory rules, standards, and policies;
- 237 (2) Avoid hindsight;
- 238 (3) Apply the reasonable business standard, not a hypothetical ideal;
- 239 (4) Evaluate management's awareness of and response to important
240 changes in business risk; and
- 241 (5) Evaluate management's awareness of relevant policies and practices of
242 other energy utilities.

243

244 **Q HOW DO THESE CRITERIA REFLECT THE CONCEPTS OF GOOD**
245 **UTILITY PRACTICE AND ECONOMIC REGULATION?**

246 A These proposed criteria are based upon and extensions of concepts
247 presented in the generally-accepted public utility economics literature.⁶ They
248 reflect concepts of fairness, efficiency, and risk. Moreover, these criteria
249 provide a workable framework for regulators to make a reasonable prudence
250 determination and determine if a proposed expense should be included in the
251 revenue requirement or excluded from the revenue requirement.

252

⁶ Jonathan A. Lesser and Leonardo R. Giacchino, *Fundamentals of Energy Regulation*, Public Utilities Reports, Vienna, Virginia, 2007, pp. 39-44; and J. Robert Malko and Richard J. Williams, "Traditional and New Regulatory Tools," appears in *Reinventing Electric Utility Regulation*, edited by Gregory B. Enholm and J. Robert Malko, Public Utilities Report, Inc., 1995, pp. 96-97.

253 Q IS THERE ANYTHING ELSE TO KEEP IN MIND WHEN CONDUCTING A
254 PRUDENCE REVIEW?

255 A Yes. It is important to keep the following in mind:

256 "The crux of the difference between regulatory responsibility
257 and managerial duty is the matter of initiative. Utility
258 management is expected to initiate action on the economic
259 activities which it directs. It is expected to take the
260 necessary steps to provide the service, to raise the capital,
261 and to file the rates.

262

263 This statement does not mean that the regulatory
264 commission has no influence over such action. It may
265 review and (if necessary) revise, but not direct or supervise,
266 the original action. It also means that inaction, inappropriate
267 action, or refusal to act automatically passes the initiative
268 along to the commission, which then has authority to take
269 corrective action under the law. Furthermore, past policies
270 and decisions of the commission also affect and govern
271 present and future action by utility managements."⁷

272 In short, energy utility management decides, but regulatory commissions
273 oversee.

274

⁷ See Public Utilities Reports Guide: Regulation, published by PUR, Inc., Vienna, Virginia, 1999, p. 3-13. UIEC Exhibit (JRM-1)

275 **Q WHY SHOULD THE COMMISSION CONSIDER PRUDENCE REVIEW AS**
276 **AN IMPORTANT REGULATORY TOOL INSTEAD OF ADVISING**
277 **PACIFICORP HOW TO CONDUCT ITS HEDGING STRATEGY?**

278 A Considering the multi-state regulatory jurisdictional issue relating to
279 PacifiCorp, regulatory prudence review, as compared to regulatory planning, is
280 a more direct and less complex tool for use by the Commission. The effective
281 use of prudence review by a regulatory commission promotes outcomes that
282 are consistent with the goals of economic regulation of an energy utility. In
283 addition, the Utah Commission announced in its recent decision in the EBA
284 case that it intends to take this direction.⁸

285

286 **Q WHAT IS THE PROBLEM WITH REGULATORY PLANNING FOR AN**
287 **ENERGY UTILITY, SUCH AS PACIFICORP, SERVING SIGNIFICANT**
288 **LOADS IN MULTIPLE STATES?**

289 A For an energy utility, such as PacifiCorp, that has significant portions of loads
290 and associated revenues in different states, challenges and problems
291 associated with geographic diversity can develop.⁹ For example, region one
292 that is served by the utility and has significant load could have no or very slow
293 growth, but region two that is also served by the utility and has significant load
294 could have substantial growth. The regulatory commission in region one
295 probably would have different and conflicting regulatory planning goals and

⁸ Corrected Report and Order at 68-69, Docket No. 09-035-15 (March 3, 2011).

⁹ For a discussion of specific geographic diversity challenges and problems facing PacifiCorp, see Charles E. Peterson and J. Robert Malko, "Ring Fencing in Utah," appears in Public Utilities Fortnightly, June 2008, pp. 32-35. UIEC Exhibit (JRM-2)

296 strategies concerning this energy utility as compared to the regulatory
297 commission in region two. This situation shows why regulatory planning is not
298 the best approach for regulating Rocky Mountain Power.¹⁰ By contrast,
299 prudence review allows the Utah Commission to evaluate the reasonableness
300 of the utility's economic decisions and related expenses. The Company
301 knows that its recovery of costs is always subject to prudence reviews.

302

303 **IV. APPLICATION OF THE PRUDENCE REVIEW CRITERIA TO**
304 **PACIFICORP'S HEDGING POLICY AND PRACTICES.**

305 **Q AS TO THE FIRST OF YOUR EVALUATION CRITERIA, WHAT ARE THE**
306 **RELEVANT REGULATORY RULES, STANDARDS, AND POLICIES**
307 **CONCERNING REGULATORY PRUDENCE REVIEW FOR THIS**
308 **PROCEEDING?**

309 **A** As I mentioned above, Title 54, Section 54-4-4(4)(a) of the Commission's
310 statutes sets forth the standards for the Commission to conduct a prudence
311 review:

312 (4) (a) If, in the commission's determination of just,
313 reasonable, or sufficient rates, the commission considers the
314 prudence of an action taken by a public utility or an expense
315 incurred by a public utility, the commission shall apply the
316 following standards in making its prudence determination:

¹⁰ See comment made by David Sokol, former CEO of MidAmerican Energy concerning geographic differences and related planning issues in Public Utilities Fortnightly, June 2006, p. 45. UIEC Exhibit (JRM-3)

317 (i) ensure just and reasonable rates for the
318 retail ratepayers of the public utility in this state;

319 (ii) focus on the reasonableness of the
320 expense resulting from the action of the public utility judged
321 *as of the time the action was taken*;

322 (iii) determine whether a reasonable utility,
323 *knowing what the utility knew or reasonably should have*
324 *known at the time of the action*, would reasonably have
325 incurred all or some portion of the expense, in taking the
326 same or some other prudent action; and

327 (iv) apply other factors determined by the
328 commission to be relevant, consistent with the standards
329 specified in this section.

330 (b) The commission may find an expense fully or
331 partially prudent, up to the level that a reasonable utility
332 would reasonably have incurred.

333 (Emphasis added.) The criteria I have proposed are embodied in
334 this statute.

335

336 **Q WHAT DO YOU MEAN IN YOUR SECOND EVALUATION CRITERIA BY**
337 **THE CONCEPT OF AVOIDING HINDSIGHT?**

338 A It is critical that the application of the prudence review framework not be based
339 on hindsight. Instead, it must be based on whether business decisions at the

340 time they were made were reasonable considering the facts and conditions at
341 that time. According to Professor James C. Bonbright, prudent investment
342 “must have been prudently incurred in the light of foresight rather than of
343 hindsight.”¹¹

344

345 **Q WHAT IS THE SIGNIFICANCE OF APPLYING FORESIGHT VERSUS**
346 **HINDSIGHT IN THIS INSTANCE?**

347 A PacifiCorp managers were or should have been clearly aware of the
348 previously discussed significant financial losses associated with their use of
349 gas swaps since 2007 and the importance of the hedging programs as an
350 issue prior to this rate proceeding. Issues concerning PacifiCorp’s natural gas
351 hedging program have been raised in previous cases before the Utah
352 Commission.¹² In addition, shale gas as a percentage of United States natural
353 gas production increased significantly from approximately 5% in year 2005 to
354 over 20% in year 2010.¹³ Therefore, PacifiCorp managers should have had
355 the foresight, not the hindsight, to begin making serious changes in the
356 Company’s natural gas hedging program at the start of 2009, if not earlier.

357 The following are direct quotations from the confidential minutes of the
358 PacifiCorp Energy Risk Oversight Committee Meeting held on August 6, 2007.

¹¹ James C. Bonbright, Principles of Public Utility Rates, Columbia University Press, New York, 1961, p. 174. UIEC Exhibit (JRM-4)

¹² See Docket No. 08-035-38, Docket No. 09-035-21, Docket No. 09-035-23 and Docket No. 09-035-15.

¹³ Daniel Yergin, “Stepping on the Gas,” appears in The Wall Street Journal, April 2, 2011. UIEC Exhibit (JRM-5)

359

[REDACTED]

360

[REDACTED]

361

[REDACTED]

362

[REDACTED]

363

[REDACTED]

364

[REDACTED]

365

[REDACTED]

366

[REDACTED]

367

[REDACTED]

368

As early as 2007, PacifiCorp clearly acknowledged that it needed to be flexible

369

in its hedging policy concerning natural gas, but it failed to implement any

370

changes as business conditions changed. Thus, the Company failed to follow

371

its own hedging strategies.

372

373

Q WHAT TYPES OF CHANGES SHOULD PACIFICORP HAVE MADE IN ITS

374

NATURAL GAS HEDGING PROGRAM?

375

A PacifiCorp should have reduced its 100% reliance on fixed for variable

376

financial natural gas swaps and have some portion of its program exposed to

377

the market in order to capture the benefits of increased supply of natural gas

378

and associated price decline. PacifiCorp should have followed the

379

conclusions of its EROC and actually implemented changes to be more

380

flexible and address concerns raised by natural gas price reductions and cost

381

minimization considerations.

382

383 **Q PLEASE DESCRIBE YOUR THIRD EVALUATION CRITERIA, APPLYING**
384 **REASONABLE BUSINESS STANDARDS, NOT HYPOTHETICAL IDEALS?**

385 A The application of the prudence review framework should not be based on a
386 perfect or ideal application of known business models to obtain an exact
387 perfect solution to a business problem. On the contrary, the application of the
388 prudence review framework is based on reasonable knowledge of facts at the
389 time of decision and application of known and workable business models to
390 obtain a solution, which is in the zone of reasonableness, to a business
391 problem.

392

393 **Q WHAT IS THE IMPORTANCE OF THIS WHEN APPLIED TO PACIFICORP'S**
394 **NATURAL GAS HEDGING?**

395 A PacifiCorp risk managers should have been clearly aware of the established
396 financial concept of diversification when developing strategies to address and
397 mitigate risk. Therefore, in addition to using longer-term year financial swaps,
398 PacifiCorp risk managers should have had the intelligence and foresight to
399 have a diversified portfolio approach in the Company's hedging program for
400 natural gas, but they failed to take any action. Buying over time is a smart
401 strategy, but it is not sufficient on its own. It cannot be the only strategy. This
402 diversification portfolio approach should have included at a minimum, leaving
403 a portion of its portfolio exposed to the market. This diversified approach
404 would provide far more flexibility in the hedging program in order to reduce

405 costs and increase benefits to ratepayers. Diversification is a crucial concept
406 for effective risk management:¹⁴ “Don’t put all your eggs in one basket.”

407

408 **Q WHY DO YOU SAY THAT PACIFICORP’S RISK MANAGERS SHOULD**
409 **HAVE BEEN AWARE OF THE CONCEPT OF DIVERSIFICATION?**

410 A Diversification is an elementary basic of energy risk management. According
411 to the authors of the text, Energy Risk Management: A Primer for the Utility
412 Industry, the risk manager of a business is responsible for the following
413 important functions and tasks:

- 414 (1) discover the risk problems to be solved;
- 415 (2) consider the ways to deal with the problem;
- 416 (3) decide what appears to be the most efficient way to
417 deal with the problem;
- 418 (4) implement the decision; and
- 419 (5) evaluate the results.¹⁵

420 Moreover, the authors identify the following six basic techniques for managing risk:

- 421 1) Avoid the risk;
- 422 2) Bear the risk;
- 423 3) Reduce the hazard;
- 424 4) Reduce the loss;
- 425 5) Shift the risk (hedge); and

¹⁴ Eugene Brigham and Joel Houston, Fundamentals of Financial Management, 6th Edition (Concise), Cengage Learning, Mason, Ohio, Chapter 8.

¹⁵ Andrew S. Hyman, Michael J. Denton, Leonard S. Hyman, Bradford G. Leach, and Gary A. Walter, Energy Risk Management: A Primer for the Utility Industry, Public Utilities Reports, Inc., Vienna, Virginia, 2006, p. 14.

426 6) Reduce the risk (diversify).¹⁶

427

428 **Q WHY IS THIS IMPORTANT FOR PACIFICORP'S HEDGING PROGRAM?**

429 A As the Primer indicates, PacifiCorp needs to have a diversified hedging
430 program to address both increasing gas prices and falling gas prices in order
431 to reduce the costs of the program. Using a diversified portfolio provides a
432 reasonable balance to address changes in risks in order to reduce costs.
433 Buying at market, in conjunction with other tools, has relative advantages and
434 disadvantages in addressing increases and decreases in natural gas prices.
435 PacifiCorp knew or should have known of these principles and should have
436 modified its program accordingly. The fundamentals of economic regulation
437 require that cost minimization be one of the primary goals used by energy
438 utility management in the development and implementation of its hedging
439 program for natural gas in order to address the interests of captive ratepayers.
440 It must be a joint goal with price stability. By failing to address and balance
441 cost minimization and price stability as joint primary goals, PacifiCorp has
442 incurred significant losses for its ratepayers in its natural gas hedging
443 program.

444

¹⁶ Ibid. p. 19.

445 **Q** **WHAT DO YOU MEAN WHEN YOU TALK ABOUT THE CONCEPT OF**
446 **AWARENESS OF AND RESPONSE TO IMPORTANT CHANGES TO**
447 **BUSINESS RISK WITHIN THE PRUDENCE REVIEW FRAMEWORK?**

448 A The application of the prudence review framework is based on the reasonable
449 working assumption that efficient utility managers should be aware of and
450 respond to changes in external and internal business risks. In order to
451 address the interests of both investors and ratepayers, prudent utility
452 managers, as financial agents, need to recognize and to implement policies to
453 respond effectively to changing business risks and associated impacts on
454 revenues and/or costs.

455

456 **Q** **WHAT IS THE SIGNIFICANCE OF THIS CONCEPT IN YOUR EVALUATION**
457 **OF PACIFICORP'S HEDGING PROGRAM RELATING TO NATURAL GAS?**

458 A In the article, "Stepping on the Gas," written by Daniel Yergin (see UIEC
459 Exhibit (JRM-5)), we see that there has been a significant rise in the supply of
460 shale gas as a percentage of US natural gas production rising from 5% in
461 2005 to over 20% in 2010. Additionally, the associated price per million Btu of
462 natural gas fell from approximately \$9.00 in 2008 to approximately \$4.00 in
463 2010. The hedging program at PacifiCorp should have incorporated and
464 implemented diversification and flexibility during this period in order to address
465 these business risk changes and to reduce costs to the ratepayer. As
466 previously discussed and documented, as early as 2007 the EROC discussed
467 and acknowledged the need for change in its natural gas hedging program.

468 However, when significant business risks and conditions did change, such as
469 increases in the supply of shale gas and associated reductions in the price of
470 natural gas, the EROC did not initiate and implement change in its natural gas
471 hedging program, such as buying at market, in order to minimize cost risk for
472 the ratepayers. PacifiCorp was clearly aware of significant losses associated
473 with its natural gas hedging program starting in 2007.

474

475 **Q CAN YOU GIVE US AN EXAMPLE OF HOW THESE LOSSES AFFECTED**
476 **THE CURRENT TEST YEAR?**

477 A Yes. As demonstrated in my Confidential Exhibit UIEC (JRM-6)¹⁷ the bulk of
478 the hedging for the current test year was done during the 2007-2008 period.
479 This was during and after the time PacifiCorp's EROC discussed a need to
480 change, but failed to do so, and when shale gas started to have a significant
481 effect on the price of natural gas. For the test year, losses from financial
482 swaps hedged in 2007 were ██████████, for the year 2008 they were ██████████
483 ██████████, for the year 2009 they were ██████████, and for the year 2010 they
484 were ██████████, for a total of ██████████ in financial swap hedging losses
485 for the test year. Also, when considering an annual burn requirement for the
486 test year of 67,672,663 MMBtu, PacifiCorp was hedged monthly with financial
487 swaps for the test year between 74% and 121%.

488

¹⁷ The figures for this exhibit were prepared by UIEC witness Mr. Widmer.

489 **Q PLEASE EXPLAIN WHAT YOU MEAN BY THE CONCEPT OF**
490 **AWARENESS OF RELEVANT POLICIES AND PRACTICES OF OTHER**
491 **ENERGY UTILITIES WITHIN THE PRUDENCE REVIEW FRAMEWORK?**

492 A The application of the prudence review framework is based on the reasonable
493 working assumption that efficient utility managers should be aware of relevant
494 policies and practices of other energy utilities. When addressing specific
495 business problems, prudent utility managers should be aware of relevant
496 experiences at other utilities by networking through professional organizations
497 such as the Electric Power Research Institute and the Edison Electric Institute.
498 Prudent energy utility managers should clearly learn from the experiences of
499 other managers at utilities including the managers at other utility subsidiaries
500 of the same parent holding company. This is especially relevant here where
501 PacifiCorp has sister energy utility companies which share the same parent
502 holding company—MEHC. At least three of the officers of PacifiCorp are
503 officers of MidAmerican Energy Company. Given the significant natural gas
504 hedging losses PacifiCorp was experiencing, a prudent manager would have
505 looked to what other energy utilities were doing that might be more successful,
506 especially if its sister companies were having more success.

507

508 **Q WHAT HAVE SOME OTHER ENERGY UTILITIES DONE IN THEIR**
509 **NATURAL GAS HEDGING PROGRAMS?**

510 A During the past five years, other energy utilities have implemented diversified
511 and flexible hedging programs relating to natural gas in order to address

512 changing business risks to meet goals of price stability and cost
513 minimization.¹⁸

514

515 **Q DO YOU HAVE ANY EXAMPLES?**

516 A Yes. An informative discussion of a hedging program for natural gas and
517 power purchases has been provided by Mr. Gary Gottsch, a witness for
518 Aquila, Inc., in 2006 rate proceedings before the Missouri Public Service
519 Commission. Mr. Gottsch has stated the following in his testimony:

520 Q. Can you summarize Aquila's natural gas hedging
521 program for electric generation and on-peak purchased
522 power?

523 A. Aquila's approach for hedging natural gas and on-
524 peak purchased power is to procure one-third of the monthly
525 forecast quantity through fixed price NYMEX swaps, one-
526 third in option contracts (straight calls or collars), and the
527 remaining one-third at the then prevailing daily or monthly
528 market indexes. These positions are acquired over a 28
529 month process that allows the Company to capture a greater
530 averaging effect.

531 Q. Why does Aquila believe that this hedging approach
532 is appropriate?

¹⁸ For a summary of hedging programs at various energy utilities, see direct testimony on Douglas D. Wheelwright, Utah Division of Public Utilities, filed in June 2010, in Docket No. 09-035-15 before the Public Service Commission of Utah.

533 A. This approach allows Aquila to mitigate the natural
534 gas price volatility (via fixed price and option contracts) while
535 still allowing it to take advantage of decreases in natural gas
536 prices (via option contracts and index purchases). (Missouri
537 Public Service Commission, Docket No. ER-2007-0004,
538 Direct Testimony of Gary L. Gottsch at page 2, lines 11-21,
539 July 3, 2006.)

540

541 **Q HAVE OTHER UTILITIES TAKEN SIMILAR APPROACHES?**

542 A Yes. For example, Questar, has incorporated the purchase of natural gas at
543 current market prices as part of its hedging program. In response to a data
544 request made by the Utah Division of Public Utilities relating to PSCU Docket
545 No. 06-057-04, Questar Gas Company indicated that its total hedged natural
546 gas supply varied between 58% and 70% between years 2006 and 2010 with
547 the remainder being subject to market. (See UIEC Exhibit (JRM-7)).

548

549 **Q HAVE UTILITY SUBSIDIARIES OF MIDAMERICAN ENERGY HOLDING**
550 **COMPANY TAKEN SIMILAR APPROACHES?**

551 A Yes. The natural gas division of MidAmerican Energy Company in Iowa has
552 used a hedging program of approximately 67% in hedges (including storage)
553 and 33% buying at spot or market for approximately 10 years.¹⁹ This energy

¹⁹ Based on information supplied by the Iowa Utilities Board Staff.

554 utility, like PacifiCorp, is a subsidiary of MidAmerican Energy Holding
555 Company.

556

557 **Q WHY IS IT IMPORTANT FOR PACIFICORP TO CONSIDER THE**
558 **EXPERIENCE OF NATURAL GAS DISTRIBUTION COMPANIES**
559 **CONCERNING ITS HEDGING PROGRAM FOR NATURAL GAS?**

560 A By considering the expertise and experiences of energy risk managers at
561 natural gas distribution utilities and divisions, PacifiCorp can gain insights
562 concerning the development and implementation of effective hedging
563 programs for buying natural gas. PacifiCorp needs to separately focus on its
564 natural gas hedging program to balance and meet the important primary goals
565 of price stability and cost minimization.

566

567 **Q DO YOU HAVE ANY EXAMPLES OF WHAT OTHER ELECTRIC UTILITIES**
568 **HAVE DONE RECENTLY?**

569 A Yes. In response to concerns regarding the cost-effectiveness of and
570 increasing financial losses associated with natural gas hedging programs of
571 the Nevada electric utilities, Nevada Power Company and Sierra Pacific Power
572 Company, these hedging programs were suspended and significantly reduced
573 during the year 2010.²⁰ Before the suspension of the natural gas hedging
574 program, the electric utilities in Nevada had the following portfolio: 50% in
575 swaps, 25% in collar options, and 25% in open market. In Docket

²⁰ Based on information supplied by Public Utilities Commission of Nevada—Regulatory Operations Staff and in Public Utilities Commission of Nevada Docket No. 10-09003, Order issued on December 8, 2010, and Docket No. 10-07003, Order issued October 14, 2010.

576 No. 10-09003, Order issued on December 8, 2010, the Public Utilities
577 Commission of Nevada approved a Stipulation concerning Nevada Power
578 Company (NPC) that has the following features concerning gas hedging
579 strategy:

580 **AGREEMENTS REGARDING SPECIFIC ISSUES**

581 1. **Gas Hedging Strategy.**

582 (a) NPC shall not procure any additional financial gas
583 hedges. This strategy, however, is subject to the
584 Company's monitoring process described in
585 paragraph 1(d) below. Moreover, this in this paragraph
586 prohibits the Company from filing an energy supply plan,
587 an energy supply plan amendment, or an energy supply
588 plan update in which the Company proposes to procure
589 financial gas hedges. The Company shall not unwind any
590 hedges that already had been procured as of the date of
591 this Stipulation.

592 * * *

593 (d) The Company shall continue to monitor its natural
594 gas hedging strategy in light of prevailing market
595 fundamentals and conditions. The Company shall
596 evaluate its gas hedging strategy quarterly at a minimum,
597 or as needed, depending upon the market fundamentals
598 and conditions. The Company's strategy evaluation shall
599 conclude with an affirmative decision of whether to
600 continue the existing strategy or make adjustments to the

601 strategy. The Company shall document each decision
602 process and retain records that support the decision.

603 The objectives of the energy utilities' hedging programs are based on
604 Nevada's Energy Supply Plans which include: minimize the cost of supply,
605 minimize price volatility, and maximize the reliability of energy.²¹ Hedging
606 plans concerning natural gas are addressed in the Energy Supply Plan
607 Proceedings in Nevada. As previously discussed, PacifiCorp has failed to
608 address the important objective of cost minimization in its natural gas hedging
609 program and failed to respond to changes in market conditions.

610

611 **Q DO YOU HAVE ANY FURTHER EXAMPLES OF ELECTRIC UTILITY**
612 **HEDGING PROGRAMS?**

613 **A** Yes. The Georgia Public Service Commission of Georgia, in Docket No.
614 22403-4, issued the following order on June 7, 2007 concerning the natural
615 gas hedging program of the Georgia Power Company, an electric utility.

616 Hedging Guidelines

617 The Commission directs the company to hedge between
618 thirty (30%) to fifty percent (50%) of the budgeted natural
619 gas burn volume for a calendar month.

620 PacifiCorp has failed to have a diversified hedging program for
621 natural gas.

622

²¹ Public Utilities Commission of Nevada, Docket No. 09-07003, Volume 3 of 6 Energy Supply Plan, p. 4.

623 Q WHAT ARE THE IMPLICATIONS FOR PACIFICORP OF THESE OTHER
624 HEDGING PROGRAMS?

625 A Based on what was publicly available and known to other utilities in modifying
626 their hedging programs, it would certainly have been reasonable and prudent
627 for PacifiCorp, for the current test period, to use as a starting point or
628 benchmark, the 1/3 allocation for buying at market, to meet objectives of price
629 stability and cost minimization. What the other 2/3 should be is a question for
630 another day. What is critical is that at least a portion should have been
631 exposed to market.

632

633 The 1/3 allocation for buying at market serves as the basis for my
634 recommended disallowance of \$19.7 million. Mark Widmer explains in his
635 direct testimony how the financial amount of \$19.7 million for Utah is
636 associated with my recommendation to buy 33% of gas requirements at
637 market. A recommended range of an imprudent disallowance of 25% to 40%
638 for buying at market is based on reasonable assumptions and adjustments to
639 reflect how energy utilities have addressed changes in business risk by buying
640 at market.

641

642 In addition to the proposed methodological framework of setting a percentage
643 of the hedging program for natural gas to be bought at market, it is certainly
644 feasible that other approaches using economic factors can be used to
645 estimate a reasonable imprudence disallowance.

646

647 **V. CONCLUSIONS AND RECOMMENDATIONS.**

648 **Q WHAT ARE YOUR CONCLUSIONS AND RECOMMENDATIONS BASED**
649 **ON YOUR PRUDENCE REVIEW OF PACIFICORP'S GAS HEDGING**
650 **PROGRAM FOR NATURAL GAS COSTS DURING THE TEST PERIOD?**

651 **A** The Commission should find the following:

652 • A prudence review of what utility managers knew or should have known
653 shows that PacifiCorp management failed to follow its own EROC
654 recommendations to diversify and react to the change of natural gas
655 prices in the market.

656 • 33% of natural gas requirements should be purchased at market. This
657 produces a disallowance of \$47.5 million system-wide or \$19.7 million
658 for Utah which is reasonable for losses associated with PacifiCorp's
659 imprudent hedging program (swaps) for natural gas rated to generate
660 electricity.

661 • The reasonable range for imprudence disallowance for this case is
662 buying 25% to 40% of natural gas at market.

663 • The prudence review criteria suggested are reasonable.

664

665 **Q DOES THIS CONCLUDE YOUR DIRECT TESTIMONY?**

666 **A.** Yes.

667

1 **QUALIFICATIONS OF J. ROBERT MALKO**

2 **Q. PLEASE STATE YOUR NAME, ADDRESS AND OCCUPATION.**

3 A. My name is J. Robert Malko. I am a Professor of Finance in the Huntsman
4 School of Business at Utah State University located in Logan, Utah. My business
5 consulting address is 245 North Alta Street, Salt Lake City, Utah 84103.

6
7 **Q. PLEASE SUMMARIZE YOUR EDUCATIONAL BACKGROUND AND**
8 **ACADEMIC POSITIONS.**

9 A. I received my Bachelor's degree, cum laude, in economics and mathematics
10 from Loyola College in Baltimore, Maryland. I received my Master's and
11 Doctorate degrees in economics from the Krannert Graduate School of
12 Management at Purdue University in West Lafayette, Indiana. I have also taken
13 graduate courses in corporate finance and investment theory at the University of
14 Wisconsin at Madison. I was a Visiting Scholar in industrial engineering at
15 Stanford University in Palo Alto, California. At Utah State University, I teach
16 undergraduate level and graduate level courses in Corporate Finance and
17 Applied Microeconomics.

18
19 **Q. PLEASE DESCRIBE SOME OF YOUR PRIOR WORK EXPERIENCE.**

20 A. I served during the periods 1975-1977 and 1981-1986 as the Chief Economist for
21 the Public Service Commission of Wisconsin. During this time, I also served as
22 Chair and Vice-Chair of the National Association of Regulatory Utility
23 Commissioners ("NARUC") Staff Subcommittee on Economics and Finance.
24 From 1977-1981, I was Project Manager, and then Program Manager, for The

25 Electric Utility Rate Design Study. This study was housed at the Electric Power
26 Research Institute (“EPRI”) in Palo Alto, California and prepared for NARUC. In
27 1981-1982, I was the Senior Staff Advisor to the NARUC Ad Hoc Committee on
28 Utility Diversification. I assisted the Committee in the preparation and publication
29 of their Final Report in 1983. I served on the Board of Directors at the National
30 Regulatory Research Institute (“NRRI”), located at the Ohio State University,
31 between 1997 and 2003. I have served on the Board of Directors of the Society
32 of Utility and Regulatory Financial Analysts (SURFA) between 1988 and 1996
33 and 2002 to 2010. I am also a Certified Rate of Return Analyst which is certified
34 by SURFA. I currently serve on the Advisory Council for the Center of Public
35 Utilities at New Mexico State University.

36

37 **Q. HAVE YOU PREVIOUSLY TESTIFIED IN REGULATORY PROCEEDINGS?**

38 A. Yes. I have testified on behalf of state regulatory commissions, state offices of
39 consumer counsel, energy utilities and customer groups. I have presented
40 testimony before the Arizona Corporation Commission, the Connecticut Public
41 Utilities Control Authority, District of Columbia Public Service Commission, the
42 Federal Energy Regulatory Commission, the Hawaii Public Utilities Commission,
43 the Illinois Commerce Commission, the Maryland Public Service Commission,
44 the Minnesota Public Utilities Commission, the New Hampshire Public Utilities
45 Commission, the New Jersey Board of Public Utilities, the Nevada Public Service
46 Commission, the New York Public Service Commission, the Pennsylvania Public
47 Utility Commission, the Public Service Commission of Wisconsin, the Public

48 Service Commission of Utah, Utah State Tax Commission, and the Virginia State
49 Corporation Commission.

50

51 **Q. PLEASE SUMMARIZE YOUR PUBLICATIONS CONCERNING REGULATION**
52 **AND PUBLIC UTILITY ISSUES.**

53 A. I have written (co-authored) approximately 170 articles on public utility
54 economics and finance that have been published in books and journals including,
55 Forum For Applied Research and Public Policy; Journal of Business
56 Administration; Journal of Energy Law and Policy; The Journal of Energy and
57 Development; Energy: The International Journal; and Wisconsin Law Review. I
58 am co-editor of Electric Utilities Moving Into The 21st Century published by PUR
59 in 1994, Reinventing Electric Utility Regulation published by PUR in 1995, and
60 Customer Choice: Finding Value in Retail Electricity Markets published by PUR
61 in 1999.

62

63

CERTIFICATE OF SERVICE
(Docket No. Docket No. 10-035-124)

I hereby certify that on this 26th day of May 2011, I caused to be e-mailed, a true and correct copy of the foregoing **PREFILED DIRECT TESTIMONY OF J. ROBERT MALKO AND EXHIBITS ON REVENUE REQUIREMENT ON BEHALF OF UIEC** to the parties below. For those who have signed the protective order and would like a copy of the confidential version, please email a copy of your execution of the agreement and we will in turn send you a copy of the confidential testimony.

Patricia Schmid
ASSISTANT ATTORNEYS GENERAL
500 Heber Wells Building
160 East 300 South
Salt Lake City, UT 84111
pschmid@utah.gov

Michele Beck
Executive Director
COMMITTEE OF CONSUMER SERVICES
Heber Wells Building
160 East 300 South, 2nd Floor
SLC, UT 84111
mbeck@utah.gov

Cheryl Murray
Dan Gimble
Danny Martinez
UTAH COMMITTEE OF CONSUMER
SERVICES
160 East 300 South, 2nd Floor
Salt Lake City, UT 84111
cmurray@utah.gov
dgimble@utah.gov
DANNYMARTINEZ@UTAH.GOV

David L. Taylor
Yvonne R. Hogle
Mark C. Moench
ROCKY MOUNTAIN POWER
201 South Main Street, Suite 2300
Salt Lake City, UT 84111
Dave.Taylor@pacificorp.com
yvonne.hogle@pacificorp.com
mark.moench@pacificorp.com
datrequest@pacificorp.com

Chris Parker
William Powell
Dennis Miller
DIVISION OF PUBLIC UTILITIES
500 Heber Wells Building
160 East 300 South, 4th Floor
Salt Lake City, UT 84111
chrisparker@utah.gov
wpowell@utah.gov
dennismiller@utah.gov

Gary Dodge
Hatch James & Dodge
10 West Broadway, Suite 400
Salt Lake City, UT 84101
gdodge@hjdllaw.com

Paul Proctor
ASSISTANT ATTORNEYS GENERAL
500 Heber Wells Building
160 East 300 South
Salt Lake City, UT 84111
pproctor@utah.gov

Kevin Higgins
Neal Townsend
ENERGY STRATEGIES
39 Market Street, Suite 200
Salt Lake City, UT 84101
khiggins@energystrat.com
NTOWNSEND@ENERGYSTRAT
.COM

Peter J. Mattheis
Eric J. Lacey
Brickfield, Burchette, Ritts & Stone,
P.C.
1025 Thomas Jefferson St., N.W.
800 West Tower
Washington, D.C. 20007
pjm@bbrslaw.com
elacey@bbrslaw.com

Holly Rachel Smith, Esq.
Holly Rachel Smith, PLLC
Hitt Business Center
3803 Rectortown Road
Marshall, VA 20115
holly@raysmithlaw.com

Sophie Hayes
Sarah Wright
Utah Clean Energy
1014 2nd Avenue
Salt Lake City, UT 84111
sophie@utahcleanenergy.org
sarah@utahcleanenergy.org

Stephen F. Mecham
Callister Nebeker & McCullough
10 East South Temple Suite 900
Salt Lake City, Utah 84133
sfmecham@cnmlaw.com

Kurt J. Boehm, Esq.
BOEHM, KURTZ & LOWRY
36 E. Seventh St., Ste1510
Cincinnati, Ohio 45202
kboehm@BKLlawfirm.com

Ryan L. Kelly, #9455
Kelly & Bramwell, P.C.
11576 South State St. Bldg. 1002
Draper, UT 84020
ryan@kellybramwell.com

Steve W. Chriss
Wal-Mart Stores, Inc.
2001 SE 10th Street
Bentonville, AR 72716-0550
stephen.chriss@wal-mart.com

Sharon M. Bertelsen
Ballard Spahr LLP
201 So. Main Street, Ste 800
Salt Lake City, Utah 84111
bertelsens@ballardspahr.com

Captain Shayla L. McNeill
Ms. Karen S. White
Staff Attorneys
AFLOA/JACL-ULFSC
139 Barnes Ave, Suite 1
Tyndall AFB, FL 32403
Shayla.mcneill@tyndall.af.mil
Karen.white@tyndall.af.mil

Stephen J. Baron
J. Kennedy & Associates
570 Colonial Park Drive, Ste 305
Roswell, GA 30075
sbaron@jkenn.com

Charles (Rob) Dubuc
Western Resource Advocates
& Local Counsel for Sierra Club
150 South 600 East, Suite 2A
Salt Lake City, UT 84102
rdubuc@westernresources.org

Mike Legge
US Magnesium LLC
238 North 2200 West
Salt Lake City, Utah 84106
mlegge@usmagnesium.com

Gerald H. Kinghorn
Jeremy R. Cook
Parsons Kinghorn Harris, P.C.
111 East Broadway, 11th Floor
Salt Lake City, UT 84111
ghk@pkhlawyers.com
jrc@pkhlawyers.com

Steven S. Michel
Western Resource Advocate
409 E. Palace Ave. Unit 2
Santa Fe, NM 87501
smichel@westernresources.org

Roger Swenson
US Magnesium LLC
238 North 2200 West
Salt Lake City, UT 84114
roger.swenson@prodigy.net

Gloria D. Smith
Senior Attorney
Sierra Club
85 Second Street, 2nd Fl.
San Francisco, CA
gloria.smith@sierraclub.org

Nancy Kelly
Western Resource Advocates
9463 N. Swallow Rd.
Pocatello, ID 83201
nkelly@westernresources.org

Bruce Plenk
Law Office of Bruce Plenk
2958 N St Augustine Pl
Tucson, AZ 85712
bplenk@igc.org

Jane Briesemeister
AARP
98 San Jacinto Blvd. Ste. 750
Austin, TX 78701
jbriesemeister@aarp.org

Randy N. Parker, CEO
Utah Farm Bureau Federation
9865 South State Street
Sandy, Utah 84070
rparker@fbfs.com

ARTHUR F. SANDACK, Esq
8 East Broadway, Ste 411
Salt Lake City, Utah 84111
asandack@msn.com

Sonya L. Martinez, CSW
Policy Advocate
Betsy Wolf
Salt Lake Community Action
Program
764 South 200 West
Salt Lake City, UT 84101
Smartinez@slcap.org
bwolf@slcap.org

Leland Hogan, President
Utah Farm Bureau Federation
9865 South State Street
Sandy, Utah 84070
leland.hogan@fbfs.com

