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BEFORE THE ARIZONA CORPORATION COMMISSION

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AZ CORP COMMISSION  
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IN THE MATTER OF THE APPLICATION OF  
SOUTHWEST GAS CORPORATION FOR THE  
ESTABLISHMENT OF JUST AND REASONABLE  
RATES AND CHARGES DESIGNED TO REALIZE  
A REASONABLE RATE OF RETURN ON THE  
FAIR VALUE OF THE PROPERTIES OF  
SOUTHWEST GAS CORPORATION DEVOTED  
TO ITS OPERATIONS THROUGHOUT THE  
STATE OF ARIZONA.

Docket No. G-01551A-04-0876

**STAFF'S INITIAL CLOSING BRIEF**

**I. INTRODUCTION**

Arizona Corporation Commission Staff ("Staff") hereby files its initial closing brief on Southwest Gas Corporation's ("Southwest" or "the Company") application to increase rates in Arizona.

The main issues in this case focus on two fundamental questions.

1. Has Southwest met its burden justifying the proposals and increases it asks for; and
2. Have the interests of Southwest and its shareholders been appropriately balanced with the concerns and impacts to ratepayers.

Most of the revenue requirements increase Southwest requests is justifiable. But on a few key matters such as costs for Sarbanes-Oxley and the Management Incentive Program, shareholders stand to benefit significantly. All of these expenses are not just for the benefit of customers. Southwest's request for full recovery of these expenses fails to recognize this. Shareholders and customers should share the burden for these costs, and the burden should be balanced between them.

The Transmission Integrity Management Program ("TRIMP") is another area where ratepayers and shareholders stand to benefit, so a sharing of these costs makes sense too. But because the bulk of these TRIMP costs are projected costs, Staff believes that a surcharge mechanism should

1 be established. This mechanism would capture more actual costs rather than trying to incorporate  
2 mostly projected costs into base rates. Once a cost history was established, costs could then be  
3 normalized.

4 Staff and the Company also disagree on the appropriate cost of capital, capital structure and  
5 cost of equity for Southwest. Southwest fails to meet its burden that its cost of capital analysis is  
6 superior, based on the reliable evidence presented in this case. Staff's analysis balances Southwest's  
7 financial integrity with ratepayer interests to not pay for a higher return on utility plant than is  
8 actually funded with equity from the Company. Hence, this is why Staff's proposed 40-percent-equity  
9 ratio in the capital structure is more equitable than the Company's 42-percent-ratio proposal. Also,  
10 Staff's cost of equity analysis better adheres to the efficient markets hypothesis and actual market  
11 conditions than the Company's inflated recommendation.

12 Staff's analysis and recommendations include several items related to customer service and  
13 billing to make things a little easier and more understandable to Southwest's customers.

14 With limited exceptions, Staff agrees with Southwest's request to expand demand side  
15 management ("DSM") funding to about \$ 4.335 million and to allow recovery through the existing  
16 DSM adjustor. Staff believes, however, that Southwest should provide more specific descriptions of  
17 the new programs for subsequent Commission approval. DSM furthers the goals of conservation and  
18 efficient use of natural gas and therefore, it should be expanded to additional customer classes  
19 besides residential.

20 Staff recommends several items with regard to Southwest's gas procurement practices. These  
21 recommendations will ensure that all avenues are explored to make sure that natural gas is purchased  
22 in the most cost-effective and prudent manner. This is especially important given the recent price  
23 spikes for this needed commodity. Staff also addresses Southwest's purchased gas adjustor and  
24 recommends changes to reflect the current realities of a rapidly rising price for natural gas.

25 Finally, Southwest has failed to meet its burden justifying its rate design and its proposed  
26 Conservation Margin Tracker ("CMT"). A rate design should balance revenue stability with other  
27 important factors like gradualism, affordability and conservation. While Staff's rate design  
28 appropriately balances these factors, Southwest's rate design gears too much in the direction of

1 revenue stability. Southwest also proposes the CMT to address the issue that it has been unable to  
2 achieve its overall authorized rate of return for most of the last decade. But the CMT is a bad way to  
3 address this problem because:

- 4 1. It provides a disincentive to conserve.
- 5 2. Southwest has failed to show that declining per customer usage due to conservation is  
6 the sole or main reason it has not achieved its overall authorized rate of return.
- 7 3. The impacts to customer – especially residential customers – could be significant.

8 Thus, Staff recommends that the Commission adopt its recommendations to: reject the CMT;  
9 adopt Staff's rate design; approve Staff's recommendations on gas procurement, DSM and the PGA;  
10 adopt Staff's revenue requirements; and adopt cost of capital recommendations. Staff recommends an  
11 increase to the revenue requirement of approximately \$51.625 million (15.99 percent) versus  
12 Southwest's request for about a \$70.809 million increase (21.93 percent). Staff recommends an  
13 overall cost of capital of 8.40 percent versus Southwest's request for a 9.40 percent without the CMT  
14 and 9.29 percent with the CMT. Finally, Staff is recommending 6.63 percent rate of return on a fair  
15 value rate base of \$1,171,566,722. Staff's recommendations are discussed more fully below.

## 16 **II. CONSERVATION MARGIN TRACKER**

17  
18 Southwest proposes an experimental mechanism – the conservation margin tracker (“CMT”)  
19 – to deal with the problem of declining per customer usage and lack of achieving its overall  
20 authorized rate of return. Staff does not deny that Southwest has not been able to earn its overall  
21 authorized rate of return ten out of the past eleven years. Staff also agrees that declining per customer  
22 usage due to increased efficiencies is a contributing factor. And Staff will acknowledge that the rising  
23 costs of natural gas will, in and of itself, give a signal to customers to conserve what they can. What  
24 Staff disagrees with is implementing a mechanism that provides *any* disincentive to conserve. Also,  
25 Staff is not convinced that declining per customer usage due to conservation and increased  
26 efficiencies is the sole or predominant reason Southwest has been unable to achieve its overall  
27 authorized rate of return.

28 The CMT is essentially another adjustor mechanism. This mechanism will be implemented

1 on top of Southwest's Purchased Gas Adjustor ("PGA"). Unlike the PGA, which seeks to recover the  
2 actual cost of natural gas, the CMT would seek to compensate Southwest when it is unable to achieve  
3 its authorized margin per customer class.<sup>1</sup> (Margin is all those costs for providing gas absent the gas  
4 itself). Because all of the rate designs proposed here include some margin in the volumetric rates,  
5 this does leave Southwest with the possibility that it may continue to under-recover its authorized  
6 margin, if customers use less gas than is expected. But this does not justify the adoption of an  
7 experimental mechanism.

8           **A. If there is some elasticity left in the use of natural gas, then the CMT will provide**  
9           **significant disincentive to conserve.**

10           If Southwest does not achieve its authorized margin per customer class, then the CMT will  
11 track that shortfall so that a surcharge can be imposed on customers for each customer class the  
12 following year. Southwest admits that customers will be charged extra because they did not use  
13 enough natural gas the year before.<sup>2</sup> While rising gas costs are an incentive to conserve in itself, and  
14 the CMT will likely not completely neutralize this incentive, the CMT does offset the incentive  
15 customers have to conserve. The price signal to conserve natural gas is mitigated. As a matter of  
16 policy, Staff does not believe any mechanism should be put in place that could offset the willingness  
17 of customers to conserve a valuable and precious resource. For this reason alone, Staff opposes the  
18 CMT.

19           Central to this discussion is the concept of elasticity. Mr. Cattanaach testified that it is his belief  
20 that natural gas is a "relatively inelastic" commodity.<sup>3</sup> Mr. Fetter also agreed that some uses of natural  
21 gas are less discretionary.<sup>4</sup> If this is the case, there is only so much continued conservation that can  
22 actually take place. The Residential Utility Consumer Office ("RUCO") witness, Marylee Diaz  
23 Cortez also testified that the elasticity of natural gas is less than it was in the past.<sup>5</sup> Meanwhile, Mr.  
24 Giesecking, as well as other Southwest witnesses, testified that a primary justification, if not *the*

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<sup>1</sup> Tr. at 1152:16-20.

26 <sup>2</sup> Tr. at 378.

27 <sup>3</sup> Tr. at 166 – 170.

28 <sup>4</sup> Tr. at 137:10-23.

<sup>5</sup> Tr. at 973 – 975. Ms. Diaz Cortez also believes that the CMT would charge residential customers for gas they did not use, if Southwest fails to achieve its authorized margin for that customer class. Tr. at 980-81.

1 justification, for the CMT is driven by reduced consumption on a per-therm basis due to  
2 implementation of conservation programs.<sup>6</sup> Because margin costs are part of the volumetric rates,  
3 reduced consumption contributes to Southwest not achieving its overall authorized rate of return.

4 But if use of natural gas is inelastic, and if both high-use and low-use customers have limited  
5 discretion to conserve, then it follows that declining per customer usage will decelerate or slow down  
6 as the usage gets more inelastic. Residential customers will need *some* amount of natural gas for  
7 cooking, bathing, laundry and home heating even with more efficient appliances. This  
8 nondiscretionary amount may be different for each customer. But the point is that, if natural gas is  
9 inelastic, conservation will be limited; usage levels and demand for natural gas will stabilize.  
10 Following Southwest's premise that declining customer usage due to conservation is the main reason  
11 for its rate of return shortfall, if usage levels stabilize, then Southwest will have ample opportunity to  
12 achieve its overall authorized rate of return as well as authorized margin for each customer class. This  
13 is because rates are based from the average amount of natural gas consumed during the test-year. So,  
14 the CMT would become unnecessary, if demand for natural gas has become significantly more  
15 inelastic.

16 If, however, Southwest's declining customer usage continues to occur, that indicates that *some*  
17 elasticity in demand for natural gas remains. Implementing the CMT in this circumstance would  
18 mean that customers would incur an additional charge if additional conservation and efficiencies lead  
19 to additional declining per customer usage. Southwest contends that its Exhibit A-49 shows that the  
20 CMT will encourage conservation, but Staff believes the exhibit does not reflect what will actually  
21 occur. An additional charge tacked on to customers bills for any conservation – no matter the  
22 magnitude – will discourage customers from conserving in the future.<sup>7</sup> Staff contends that the CMT  
23 would be a significant charge if this occurs to the degree Southwest expects. Hence, customers would  
24 receive a price signal against conserving natural gas, which Staff does not believe is the right  
25 message to send, given that natural gas should be treated as a precious and finite resource.

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28 <sup>6</sup> Tr. at 378:1-25 and 417:1-25.

<sup>7</sup> Tr. at 1161:8-15 and 1166:10-13.

1           **B. Southwest has not shown that conservation is the sole or predominant reason it**  
2           **has not been able to achieve its overall authorized rate of return.**

3           Staff does not believe that the problem of declining customer usage due to conservation  
4 entirely explains why Southwest is not achieving its overall authorized rate of return.<sup>8</sup> RUCO appears  
5 to share this view.<sup>9</sup> In his direct testimony, Staff's witness on the CMT, William Musgrove, provides  
6 detailed testimony as to the technical deficiencies of Southwest's proposed CMT, as well as flaws in  
7 Southwest's justification for it.<sup>10</sup> What follows summarizes Staff's position on this topic.

8           Staff contends the origins of Southwest's rate of return deficiency are not as clear-cut as  
9 simply focusing on conservation as the culprit. Staff does not dispute that the declining per customer  
10 usage phenomenon is occurring and that conservation contributes to this phenomenon. But to say that  
11 the predominant origin of this is due to increased efficiencies, or that this is *the sole* reason Southwest  
12 has not achieved its overall authorized rate of return is a stretch, for several reasons.

13           First, Mr. Musgrove highlights the fact that, for residential customers, Southwest's achieved  
14 recovery on margin for residential customers is just over a quarter of its overall authorized rate of  
15 return.<sup>11</sup> But Southwest's witness Robert Mashas provided the results of an Incremental Cost Study  
16 analysis in his pre-filed testimony, suggesting to Staff that new customer additions were allowing  
17 Southwest to earn, incrementally, at least the overall authorized rate of return.<sup>12</sup> This is despite  
18 Southwest only achieving 2.29 percent return on margin from the entire residential customer class.  
19 Thus, it appears these new residential customers – supposedly living in more energy efficient homes  
20 – are providing Southwest with its authorized margin and are not causing the problem.<sup>13</sup>

21           Second, there is the question of whether economies of scale apply. In other words, fixed costs  
22 are not increasing at the same rate or percentage as the growth in revenues due to new customers.  
23 There is no dispute that Southwest has seen significant growth to its customer base in the last few  
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25 <sup>8</sup> See Surrebuttal Testimony of William A. Musgrove, Exhibit S-12, at 9:1-8.

26 <sup>9</sup> Tr. at 990:3-4 and 1018:2-20.

27 <sup>10</sup> See Direct Testimony of William A. Musgrove, Exhibit S-11, at 5 – 10.

28 <sup>11</sup> See Musgrove Surrebuttal Testimony at 4:16-18.

<sup>12</sup> See Direct Testimony of Robert A. Mashas, Exhibit A-32, at 26:7-14; Tr. at 651-54; Musgrove Surrebuttal  
Testimony at 4:18-20.

<sup>13</sup> Tr. at 1157:9-14.

1 years. Southwest's residential customer base has been growing seven percent annually.<sup>14</sup> Southwest  
2 has been getting an additional \$8 million in customer service charges not anticipated or incorporated  
3 from the last rate case.<sup>15</sup> But while Mr. Giesecking did not seem to acknowledge economies of scale,  
4 Mr. Fetter acknowledged that economies of scale will apply to some degree.<sup>16</sup> Empirically, it makes  
5 sense that economies of scale apply and that not all of Southwest's fixed costs increase at the same  
6 rate as revenues and growth. Growth cannot be *all* bad and increasing total revenues has helped to  
7 offset Southwest's authorized margin deficiencies.

8 Finally, the synthesis of the evidence summarized above conflicts with Southwest's  
9 justification for the CMT. If economies of scale apply, then revenues outpace costs. Southwest has  
10 more revenues because of growth, even with more efficient homes and even with conservation. The  
11 evidence in this case is that new customers are not the reason Southwest is not achieving authorized  
12 rate of return. In fact, Southwest is earning its authorized rate of return from these new customers.<sup>17</sup>  
13 Thus, growth cannot be the culprit, and new energy-efficient homes cannot be the culprit either. No  
14 evidence here suggests that any conservation measures taken by existing or vintage customers is the  
15 sole or predominant reason Southwest's return on margin for the residential customer class is only  
16 2.29 percent. Weather-normalization, also incorporated into the CMT, also cannot explain the lack of  
17 achieving overall authorized rate of return, because the impacts of weather are not substantial when  
18 measuring the impact of weather on declining per customer usage, thereby raising the need for any  
19 weather normalization adjustment.<sup>18</sup> In Staff's view, Southwest's culprit – declining usage because of  
20 conservation – does not mesh with the evidence it presents justifying the CMT.

21 Staff cannot provide the full explanation as to why Southwest has not achieved its overall  
22 authorized rate of return. Staff does not ignore that increased efficiencies may be a factor to that. But  
23 that cannot be the only factor or the predominant factor. So, the CMT is not a good solution to the  
24 rate of return deficiency because the problem has not, and may not be, clearly identified. And that is a  
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26 <sup>14</sup> Tr. at 389:9-11.

27 <sup>15</sup> Tr. at 1157:19-23.

28 <sup>16</sup> Compare Giesecking, Tr. at 390 – 391, to Fetter, Tr. at 132.

<sup>17</sup> Musgrove Surrebuttal Testimony at 4:15 – 5:4.

<sup>18</sup> Tr. at 154 – 156 and 642 – 650.

1 second reason why Staff cannot support Southwest's proposed CMT.

2           **C.     The CMT will likely be burdensome to customers, specifically residential**  
3           **customers.**

4           The potential impact of the CMT on ratepayers cannot be ignored. Staff provided evidence  
5 that the impact of the CMT on residential customers could have been as much as \$0.07 per therm if in  
6 place during 2004.<sup>19</sup> If declining customer usage continues as Southwest suspects, despite evidence  
7 that natural gas use is relatively inelastic, then residential customers could be looking at paying a  
8 substantial amount per therm if authorized margin is not met. For example if Southwest is unable to  
9 achieve authorized margin for the residential class, a customer used 347 therms annually, and the  
10 CMT mechanism rate was \$0.07 per therm, that customer would pay \$24.29 (347 x 0.07).<sup>20</sup> This  
11 amount would be paid regardless of whether or how much conservation contributed to the margin  
12 deficiency. This amount would also be paid on top of cost for natural gas flowing through  
13 Southwest's PGA and regardless of whether a colder than normal winter follows a milder winter. The  
14 impact on customers could then be very significant.<sup>21</sup> Gradualism, a main facet of designing just,  
15 reasonable, and fair rates, is sacrificed. Both Staff and RUCO believe gradualism should not be  
16 sacrificed to this type of adjustor mechanism that leaves customers, especially residential customers,  
17 at risk.<sup>22</sup>

18           **D.     Arizona Law does not require approval of the CMT and the facts in this case do**  
19           **not justify its adoption.**

20           Finally, the CMT seeks to provide more of a guarantee to Southwest than traditional rate-  
21 setting methods to recover its authorized margin from residential customers. Risk is reduced with the  
22 CMT. The law only provides Southwest with an opportunity to recover, and does not mandate the  
23 adoption of this type of mechanism if that opportunity does not manifest. Basing a rate design via  
24 historical test year usage and standards is the appropriate manner to set rates in Arizona. So, the  
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26 <sup>19</sup> See Attached Exhibit 3 to Musgrove Direct Testimony.

27 <sup>20</sup> See Tr. at 1142:3-4 and 1146:3-4, which are the sources for the figures used in the example.

28 <sup>21</sup> Tr. at 1166:20 – 1167:1.

<sup>22</sup> Tr. at 978 – 980; 1184:9-18. See also Tr. at 1139:2 – 1140:9 where Mr. Musgrove disagrees that the CMT promotes the concept of gradualism in rates.

1 Commission does not – as a matter of law – have to adopt the CMT, even if natural gas use continues  
2 to decline. Staff further contends that, as an issue of fact for the reasons stated above, Southwest has  
3 not met its burden justifying adoption of such a drastic measure.

4 Therefore, the problem of not achieving rate of return should be addressed with more  
5 traditional rate design methods rather than a CMT<sup>23</sup>. Staff has striven to achieve a more cost-based  
6 rate design without ignoring other important policy considerations when designing rates. In other  
7 words, Staff understands the need for greater revenue stability for Southwest, but gradualism,  
8 affordability, conservation and other factors cannot be ignored. As will be discussed below, Staff  
9 believes its rate design is a better balancing of these interests than Southwest’s proposed design.  
10 Increase contributions from developers could also be part of the solution.<sup>24</sup>

11 Finally, the Nevada Commission, while recognizing that Southwest has not achieved its  
12 overall authorized rate of return in that state, did not approve a similar mechanism that Southwest  
13 proposed.<sup>25</sup> Since Southwest contends that even with the CMT Southwest’s overall authorized rate of  
14 return will not be achieved, then Southwest’s rate of return deficiency does not address the problem  
15 even if conservation was the cause.<sup>26</sup> As stated above, Staff disagrees that conservation is the  
16 predominant cause. Finally, Staff endorses a hypothetical capital structure, recognizing Southwest’s  
17 problem achieving its overall authorized rate of return. For all of these reasons and based on the  
18 wealth of evidence against its adoption, Staff urges the Commission not to approve Southwest’s  
19 proposed CMT.

20 **E. If adopted, the CMT should apply to all customer classes.**

21 If the Commission does decide to adopt the CMT, Staff recommends that the CMT apply to  
22 all classes. Staff, in Mr. Musgrove’s Direct Testimony, highlights why limiting the CMT to just  
23 residential classes would be unfair. Residential customers should not be the only class of customers  
24 bearing additional carrying costs, providing additional margin to Southwest, and losing the benefit of  
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26 <sup>23</sup> Musgrove Surrebuttal Testimony at 4:20 – 5:8.

27 <sup>24</sup> Tr. at 1159:7-14.

28 <sup>25</sup> See Public Utilities Commission of Nevada (“Nevada Commission”) Order No. 04-3011, Exhibit S-22, at ¶ 285.

<sup>26</sup> Tr. at 596:5-7.

1 Commission review without ample reason to do so.<sup>27</sup> Although residential customers are the majority  
2 of Southwest's customers and Southwest has not been able to achieve its authorized margin from  
3 residential customers, this alone does not justify limiting the CMT to residential customers. Other  
4 customer classes may have more ability to conserve and may have more incentive to conserve.  
5 Sufficient evidence was not presented indicating that the elasticity of natural gas use by other  
6 customer classes is significantly different than for residential customers. In light of the above, Staff  
7 opposes any limitation of the CMT solely to residential customers and believes Southwest has not  
8 met the burden to do so.

9 **III. RATE DESIGN**

10  
11 Staff's rate design is a balancing of multiple factors – gradualism, affordability, conservation  
12 – with revenue stability. Southwest's concern to recover its rate of return authorized by the  
13 Commission is a legitimate one. Staff's rate design moves significantly toward cost-based rates and  
14 toward revenue stability. This is why Staff continues to support declining bloc rates, when inverted-  
15 bloc rates have been recommended for other utilities. But Staff believes other factors must be  
16 considered, beyond Southwest's proposal in this case.

17 **A. Staff's Rate Design is a fair and reasonable balancing of the multiple rate-design**  
18 **factors.**

19 Staff recommends retaining a declining bloc rate structure rather than the flat rate structure  
20 Southwest advocates. However, Staff recommends a smaller bloc differential as well as smaller first  
21 blocs in the summer and winter.

22 Southwest admits its rate design is for revenue stability.<sup>28</sup> However as Staff has clearly  
23 demonstrated, Southwest's approach front-loads costs in the basic service charge and first bloc.<sup>29</sup>  
24 Staff's rate design incorporates other factors, including gradualism and affordability for customers.<sup>30</sup>  
25 Though Southwest tries to argue that if it does not recover all of its fixed costs or margin in a basic

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27 <sup>27</sup> See Musgrove Direct Testimony at 10 – 13.

28 <sup>28</sup> Tr. at 276:16 – 277:2.

29 <sup>29</sup> See Surrebuttal Testimony of Robert G. Gray, Exhibit S-16, at 9:11-21.

28 <sup>30</sup> Tr. at 278:8-23.

1 service charge it will be exposed to risk, but risk is inherent for all utilities with volumetric pricing.<sup>31</sup>  
2 And no party is recommending all margin be put into the basic service charge here, because that  
3 would be a radical proposal with huge adverse impacts to ratepayers. But under Southwest's rate  
4 design proposals, single family households would have either a 50 or 100 percent increase in their  
5 basic service charge.<sup>32</sup> All residential customers would see significant basic charge increases, from  
6 \$8 to \$12 with the CMT or \$16 without the CMT.<sup>33</sup> By switching more of the fixed costs into a flat-  
7 rate monthly charge customers will have less of an incentive to conserve their usage and thus reduce  
8 their bills. Additionally, although Southwest claims a direct impact on its bottom line to increased  
9 conservation, there is a public interest in conservation of a precious and finite natural resource that  
10 must be acknowledged. Southwest's rate design, however, harms a customer's ability to conserve that  
11 limited resource. In fact, under Southwest's proposed rate design, a current customer maintaining a  
12 higher consumption level would be given a price break because her consumption would fall into the  
13 cheaper second-tier rate proposed by Southwest.<sup>34</sup>

14 Southwest's cost-shifting proposal further violates Staff's goals of gradualism and  
15 conservation by its dramatic proposals in the volumetric rates, for per therm recovery. For the first  
16 volumetric bloc of rates, Southwest is asking to almost double its per therm recovery from  
17 approximately 49 cents per therm to 84 cents per therm with the CMT. Without the CMT, Southwest  
18 asks for 66.5 cents per therm (but note that the basic rate charge requested by Southwest in this  
19 circumstance would be \$16 instead of \$12 with the CMT).<sup>35</sup> Meanwhile, the second bloc volumetric  
20 rate drops precipitously from 40 cents per therm to 25 cents per therm with the CMT and 15 cents  
21 without the CMT.<sup>36</sup> Southwest admits that its rate design is structured to put less of an impact on  
22 customers who use higher amounts of gas.<sup>37</sup> While conversely, Staff's proposed rate design lessens  
23 the impact on those customers who use less than the average amount of gas.<sup>38</sup> And while Southwest

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24 <sup>31</sup> Tr. at 1201:16-25.

25 <sup>32</sup> Tr. at 283:10-17.

26 <sup>33</sup> Tr. at 284:5-14.

27 <sup>34</sup> Tr. at 205:16 – 206:3.

28 <sup>35</sup> Tr. at 285:15 – 286:17.

<sup>36</sup> Tr. at 286:19-23.

<sup>37</sup> Tr. at 290:18 – 291:6.

<sup>38</sup> Tr. at 291:7-23.

1 does not believe that lower usage customers have less discretion as to their gas usage, Southwest also  
2 admits it has never done any studies – demographic, elastic or otherwise - to substantiate its beliefs.<sup>39</sup>  
3 Southwest’s proposed rate design is too drastic and adversely impacts conservation.

4 As to Staff’s concern about affordability, it must be remembered that outside of the rate  
5 design question, Southwest is expecting its PGA to hit its ten cent cap coming this January 2006.<sup>40</sup>  
6 That means that a customer using 105 therms a month, will experience an increase of \$10.50 on her  
7 bill, regardless of which rate design is accepted.<sup>41</sup> Additionally, Southwest is likely to ask the  
8 Commission to allow a surcharge to recover the \$30 million PGA bank balance. That would equate to  
9 approximately 5.5 cents a therm, or more, on top of any rate design proposal.<sup>42</sup> Southwest contends  
10 that it will lose its high-use customers to electric-service providers, which will then increase costs to  
11 the other customers. Southwest then contends, apocalyptically, that additional customers then might  
12 leave Southwest and further drive up prices for those few who stay. Under Southwest’s view,  
13 conservation will then actually cease since more people will be using electricity, which it contends is  
14 less-energy efficient in its use of natural gas. Even Southwest, however, acknowledges its argument is  
15 circular and what may start as a trend can certainly be reversed.<sup>43</sup> Ironically, Southwest claims it is  
16 not concerned about current gas customers but the new home market.<sup>44</sup> Yet, currently Southwest is  
17 servicing 900,000 customers in Arizona – a substantial and stable customer base.<sup>45</sup> Southwest has  
18 also been experiencing seven percent yearly growth.<sup>46</sup>

19 Rate design boils down to designing rates that balance the various factors in a way that  
20 impacts to customers are not too severe and which promotes important policy goals, all while  
21 allowing the Company an opportunity to achieve its authorized rate of return. Staff’ rate design  
22 achieves this balancing to a greater degree than Southwest’s proposal. Unfortunately, Southwest’s  
23 proposal knocks this balance out of whack and too much toward its focused goal of revenue stability.

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24 <sup>39</sup> Tr. at 291 – 293.

25 <sup>40</sup> Tr. at 297:14-21.

26 <sup>41</sup> Tr. at 298:15-19.

27 <sup>42</sup> Tr. at 299 – 301.

28 <sup>43</sup> Tr. at 323:16-324:1.

<sup>44</sup> Tr. at 324:7-10.

<sup>45</sup> Tr. at 1216:15-16.

<sup>46</sup> Tr. at 389:9-10.

1 This results in extreme changes to the rate design that hurts the goals of gradualism, conservation and  
2 affordability, especially to low-income and low-use customers. Staff urges the Commission to support  
3 Staff's rate design because it balances the interests the Commission is and has been concerned about.

4 **B. Staff recommendations on specific tariffs are reasonable and should be adopted.**

5 This subsection summarizes Staff's testimony and recommendations regarding specific tariffs.

6 Staff recommends:

- 7 • Continuing to encompass both single and multi-family residential customers within the G-5  
8 tariff as there are a relatively small number of multi-family customers within the customer  
9 class and there are no compelling reasons to split the existing customer class into subclasses.  
10 Staff recommends increasing the basic service charge on the G-5 tariff from \$8.00 to \$9.70  
11 and reducing the first summer and winter blocs by five therms each from 20 to 15 and 40 to  
12 35 respectively. Furthermore, Staff recommends increasing the per therm rate charge on the  
13 first and second blocks.
- 14 • Retaining the G-10 low income customer tariff. In addition, Staff recommends retaining the  
15 present \$7.00 service charge for the G-10 customers and the current 20 percent discount on  
16 the first 150 therms in the high usage winter months – when it is most needed – rather than  
17 Southwest's proposed 15 percent year round discount. Staff proposes that Southwest retain the  
18 present \$24 charge for the normal service establishment charge and \$32 for expedited service  
19 establishment. Staff further recommends that within 90 days of the date of the final order in  
20 this proceeding that Southwest begin adding, for its Low Income Rate Assistance ("LIRA")  
21 report, a complete accounting for the LIRA bank balance for the most recent 12 month period.  
22 The accounting report should include individual listings of all inputs into the LIRA bank  
23 balance each month.
- 24 • Retaining the G-15 tariff for residential gas customers for air conditioning. Those customers  
25 have significantly different usage patterns from general residential customers. Staff  
26 recommends that the G-15 tariff continue to reflect the G-5 tariff in general, except in the  
27 second summer usage bloc, for which Staff recommends an increase in the per therm rate.
- 28 • Eliminating the G-16 special residential gas service for electric generation tariff. Applicable

1 customers are already taking service under the G-60 tariff which is more favorable to  
2 residential electric generators.

- 3 • Not creating a new subclass within the G-25 commercial customers at this time. Staff further  
4 recommends not changing the demand charge calculation formula from using the customer's  
5 coincident peak to the non-coincident peak in light of the potential that customers may have  
6 already structured their operations and consumption so as to reduce consumption on  
7 Southwest's peak month. Staff recommends increasing the basic service charge and the per  
8 therm rate for each subclass in the G-25 tariff.
- 9 • Shifting G-35 customers to the G-25 tariff, because the Department of Defense has no  
10 objection to this shift.<sup>47</sup>
- 11 • Making available the G-60 electric cogeneration tariff to all electric generation customers.  
12 Staff further recommends Southwest develop and propose provisions within the G-60 tariff  
13 providing protections for the system and other core customers from the potential impacts of 5  
14 MW or larger customers.
- 15 • Increasing the per therm rates for the G-40 air conditioning gas service and G-45 street  
16 lighting gas service tariffs.
- 17 • Increasing the service charge and per therm rates for the G-20 master-metered mobile-home  
18 park service, G-55 gas service for compression on customer premises, and G-75 small  
19 essential agricultural user gas service tariffs.
- 20 • Retaining the off-peak basic service charge at zero and the on-peak basic service charge  
21 increase, as well as the per therm rate increase on the G-80 natural gas engine gas service  
22 tariff.
- 23 • Finally, eliminating tariff sheet fourteen because it duplicates information shown in other  
24 tariff pages, and placing the limited amount of non-duplicative information in footnotes on  
25 tariff sheet thirteen.

26  
27  
28 <sup>47</sup> Tr. at 1197:23 – 1198:2.

1           **C. Staff recommends a four-hour service window and altering the bill format to**  
2           **include information on the Energy Share program, in addition to other items, as**  
3           **being in the public interest.**

4           While customer-service and billing-related issues in this case are few, Staff believes its  
5           recommendations will improve the level of customer-service for Southwest's customers.

6           Staff recommends that Southwest adopt a four-hour service window within six months of the  
7           Commission order in this proceeding. Southwest's present practice requires customers to stay on  
8           premises all or most of the day for technicians to provide service. Staff believes this to be  
9           unreasonable. UNS Gas, Inc., a major gas provider in Arizona, has a four-hour service provision in its  
10          tariff.<sup>48</sup> Under Southwest's current practice, it does not notify the customer that a four-hour timeframe  
11          is available. Instead, only a customer who knows about the possibility of a four-hour timeframe will  
12          know to request it. Currently, only 10 to 12 percent of all orders actually have an appointment  
13          period.<sup>49</sup> Although Southwest argues that its customer service scores are excellent, it is still  
14          unreasonable to not implement a four-hour service window. Furthermore, since the customers do not  
15          know that a four-hour window is an option, they do not know that they could complain about the  
16          timeframe. In order for Southwest to accomplish a required four-hour window timeframe, it states it  
17          would have to have a more "sophisticated" system than it has now and that it would take more staff.<sup>50</sup>  
18          Southwest, however, has done no studies, nor did it provide any data to back up these assertions.<sup>51</sup>  
19          Additionally, Southwest's existing system has inherent inefficiencies embedded within its scheduling  
20          practices. Southwest's scheduling system cannot tell if two customers within the same neighborhood  
21          have appointments in the same day.<sup>52</sup> By requiring a four-hour window, Southwest has the possibility  
22          of streamlining its system, improving efficiencies and improving its customer to employee ratios.

23          Staff also recommends altering the bill format. Southwest bills should provide a place on the  
24          bill for customers to elect to make donations to the Energy Share program to begin with the  
25          implementation of the new rates from this rate proceeding. Although in pre-filed testimony Southwest  
26          opposed Staff's recommendation to add a place on a customer bill for donating money to the Energy

26          <sup>48</sup> See UNS Gas, Inc. Rules & Regulations Section 6, Service Lines and Establishments, Exhibit S-27.

27          <sup>49</sup> Tr. at 94:22-95:3.

27          <sup>50</sup> Tr. at 97 - 99.

28          <sup>51</sup> Tr. at 99.

28          <sup>52</sup> Tr. at 101:3.

1 Share program, it now appears that opposition has been dropped.<sup>53</sup> While the Company is certainly  
2 not enamored by the proposition, it does understand that it would give an easy opportunity for  
3 customers to help those less fortunate pay their gas bills.<sup>54</sup>

4 In addition, Staff recommends inclusion of explanations for two billing line items, "Base  
5 Tariff Rate" and "Rate Adjustment" on the back of the bill. Likewise, Staff recommends Southwest  
6 remove from the back of the bill, information relating to customer bill issues only relevant to  
7 California and Nevada customers from Arizona customer bills to make space for information better  
8 explaining the bill to Arizona customers. Staff advocates continuing the practice of retaining  
9 customer deposits 12 months rather than extending that period to 24 months. Staff further  
10 recommends keeping the interest rate paid on customer deposits at six percent. Finally, Staff further  
11 recommends that anytime Southwest initiates participation in a new natural gas docket at FERC  
12 which relates to its service in Arizona, Southwest be required to provide Staff with a copy of their  
13 initial filing in that docket.

14 Finally, with regards to the eligibility for the LIRA program, Staff recommends that eligibility  
15 be determined using the actual federal figures, which are updated yearly.<sup>55</sup> Some confusion had  
16 existed over what figures were to be used, but the language reflecting use of the federal figures  
17 incorporated into the LIRA tariff is now mutually understood. Staff believes the federal numbers are  
18 preferable to figures from the Maricopa Community Action Association ("MCAA") numbers, which  
19 are estimates not updated yearly.<sup>56</sup> Southwest agrees with this change.<sup>57</sup>

20 **D. Staff supports a surcharge to for specific funding of the Gas Technology Institute**  
21 **since Staff is familiar with that entity.**

22 Staff recommends Southwest participate in funding the Gas Technology Institute's ("GTI")  
23 research and development efforts in energy markets using a service surcharge taken as a percentage  
24 addition to all customers excluding G-30 and B-1 up to a \$681,712 cap. Southwest has stated that it  
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26 <sup>53</sup> Tr. at 302 – 303.

27 <sup>54</sup> Tr. at 303:13-24.

28 <sup>55</sup> Tr. at 1271:2-6.

<sup>56</sup> Id.

<sup>57</sup> Tr. at 1280:5-10

1 would prefer not to just fund a single entity, but that the dollars be earmarked generically as natural  
2 gas-related research. Then the Company, with Commission oversight, would determine which  
3 organizations would receive funds annually.<sup>58</sup>

4 Although alternative organizations may exist that perform similar research and development  
5 functions as GTI, Staff specifically desires GTI because designating a specific target destination  
6 better ensures that the desired research will take place. Additionally, Staff's recommendation was  
7 focused on the funding model for the GTI utilization and operations technology development  
8 programs, anticipating GTI's minimum adequate funding levels. Staff has had successful experience  
9 with these GTI programs and GTI's contributions to the natural gas industry. Should Southwest  
10 devote funding to alternative research efforts, GTI's research funding will be inadequate.

11 Staff further recommends Southwest file its proposed list of GTI programs it desires to  
12 participate in with Docket Control each year 30 days prior to submission to GTI with a short  
13 description of each program. This would give Staff an opportunity to provide input on Southwest's  
14 choices. Finally, Staff recommends annually resetting Southwest's GTI surcharge beginning with the  
15 April billing cycle, based upon prior calendar year sales and prior year recoveries, and that the GTI  
16 surcharge be reflected in the Rate Adjustment column of its Statement of Rates, with a separate  
17 footnote identifying the current level of the GTI surcharge.

#### 18 **IV. PURCHASE GAS ADJUSTOR**

19  
20 The PGA, unlike the CMT, recovers actual costs for a rapidly-fluctuating cost of natural gas. It  
21 has been in existence for some time now. Staff recognizes the need to preserve this adjustor, but  
22 recommends several changes to it, including raising the PGA bank balance trigger and the interest rate  
23 on that balance. Also, setting the base cost of natural gas at zero and reflecting the entire cost of gas in  
24 the PGA will allow customers to better understand the changing costs of natural gas.

##### 25 **A. The base cost of gas should be set at zero and the entire natural gas cost reflected 26 in Southwest's PG A.**

27 In order to simplify the billing process and to reduce customer confusion amid an  
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<sup>58</sup> Tr. at 475 - 476.

1 environment of potentially significant gas price fluctuation, Staff recommends setting the base cost of  
2 gas to zero. The PGA would incorporate the full commodity cost of natural gas on a single line item  
3 making it clear to consumers the full and changing cost for natural gas. To avoid short term confusion  
4 from the change, Staff recommends Southwest develop customer education materials explaining the  
5 changes. Southwest agrees with this proposal.<sup>59</sup> Additionally Southwest has no objection to Staff's  
6 recommendation to keep the \$0.10 per therm band for the first twelve months following the  
7 implementation of new rates, comparing the new monthly PGA rate to the sum of the current base  
8 cost of gas and the monthly PGA rate in prior months when the base cost of gas was not zero.<sup>60</sup>  
9 Placing the entire cost of natural gas in one location – the PGA – simplifies understanding of how the  
10 cost of natural gas and the usage of it can affect their monthly bills.

11 **B. Staff's adjustments to the correct PGA are reasonable and reflect the current**  
12 **realities of rising natural gas prices.**

13 Staff recommends retaining the present PGA mechanism and structure with alterations to its  
14 bank balance trigger and the interest rate applied to the bank balance. Due to the growth in  
15 consumption and increased price volatility, Staff recommends increasing the present \$22.4 million  
16 bank balance trigger to \$29.2 million which would improve flexibility in dealing with increases in  
17 price volatility and consumption.

18 Also, to remove uncertainty generated by non-publication of the interest rate figures presently  
19 used to set the bank balance's interest rate, Staff recommends shifting to the monthly one-year  
20 nominal Treasury constant maturities rate contained in the Federal Reserve's H.15 Statistical Release  
21 or its successor. Further, Staff recommends that if such interest rate information should not be  
22 available for a given month the rate for the prior month may be used. If the rate information remains  
23 unavailable on a recurring basis, then Southwest may file with the Commission to replace the rate  
24 with another interest rate similar in nature to the then applicable rate.

25 Staff further recommends a Southwest Officer certify, under oath by affidavit attached to each  
26 PGA report, that all information provided is true and accurate to the best of the Officer's information

27 \_\_\_\_\_  
28 <sup>59</sup> Tr. at 270:3-8.

<sup>60</sup> Tr. at 270:9-21.

1 and belief. This is a standard provision the Commission has adopted in prior cases regarding adjustor  
2 reports for electric and natural gas companies. Even though Southwest still does not agree that there  
3 is a need for Officer certification, Staff continues to support this position.<sup>61</sup>

4 Finally, in the PGA report where Southwest lists its purchases, Staff recommends that  
5 Southwest split the term purchases into groups showing fixed price contracts and other variable  
6 contracts (index contracts, for example). Likewise, Staff recommends that Southwest begin  
7 specifically identifying in its monthly PGA reports what the average and median usage levels are for  
8 its G-5 and G-10 schedules for the given month.

## 9 **V. GAS PROCUREMENT PRACTICES**

10  
11 The Commission has specifically identified price stability as one of the goals of the gas  
12 procurement process for Arizona local distribution companies such as Southwest Gas. As having a  
13 mix of purchased gas coming from both the spot market and through long term fixed price contracts  
14 greatly improves price stabilization, Staff recommends that Southwest further explore procurement  
15 opportunities so that greater price stability to core customers can be achieved. Southwest has agreed  
16 to a number of Staff's requests including:

- 17 • conducting a fuel and procurement best practice review;
- 18 • separating the contract award group from the invoice approval authority within  
19 Southwest;
- 20 • reviewing Southwest's current portfolio evaluation software;
- 21 • eliminating the use of cell phones in term bidding and negotiating activities; and
- 22 • having a neutral party observe these activities.<sup>62</sup>

23 Additionally Southwest has agreed to review its definition of stock ownership rules for  
24 involved employees.<sup>63</sup> Staff believes that involved employees should not have "substantial" stock  
25 ownership and that the term "substantial" needs to be defined within 60 days of this case being  
26

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27 <sup>61</sup> Tr. at 454 – 455.

28 <sup>62</sup> Tr. at 433:19 – 434:3 and 471:8-16.

<sup>63</sup> Tr. at 434:4-11.

1 decided.<sup>64</sup>

2 Southwest also agrees with Staff witness Robert Gray's concern regarding El Paso, shortfall  
3 of service and other lateral issues.<sup>65</sup> Staff recommends that Southwest develops its distribution system  
4 to serve new customer demands, it should build any needed laterals and related infrastructure itself,  
5 rather than having El Paso build those laterals, unless significant costs or other reasons justifies  
6 otherwise. In light of El Paso's apparent desire to inhibit the development of competitive natural gas  
7 infrastructure in Arizona and the uncertainty whether the Federal Energy Regulatory Commission  
8 ("FERC") will address these matters, Staff also recommends Southwest pursue opportunities to  
9 acquire El Paso laterals to weaken El Paso's monopoly control over local natural gas infrastructure.

## 10 11 **VI. DEMAND-SIDE MANAGEMENT**

12 Staff supports, in general, the demand-side management ("DSM") programs proposed by  
13 Southwest. Staff, however, cannot support the continued inclusion of \$50,000 in DSM programs that  
14 are connected to the Low-Income Energy Conservation ("LIEC") program. This program is not a  
15 form of energy conservation and as Southwest admitted, it is including it under the DSM program  
16 because it is following the lead of Arizona Public Service Company.<sup>66</sup>

17 Southwest is requesting to increase its DSM funding from \$600,000 to \$4.385 million.<sup>67</sup> Staff  
18 supports \$4.335 million of this DSM funding (minus the \$50,000 for LIEC described above).  
19 Southwest does not support Staff's request of having the semi-annual DSM Progress Reports certified  
20 by an Officer of the Company.<sup>68</sup> Although Southwest says it would support having someone lower in  
21 the chain of responsibility sign an affidavit as to the report's truthfulness, the purpose of this request  
22 is to ensure top executive accountability, given the level and purpose of the funding. Staff supports  
23 Commission approval a general funding level now. But Staff also recommends that within 120 days  
24 of the order's effective date, the Company submit detailed DSM program descriptions, including cost  
25

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26 <sup>64</sup> Tr. at 1108.

27 <sup>65</sup> Tr. at 455:14-456:17.

28 <sup>66</sup> Tr. at 192

<sup>67</sup> Tr. at 177:6-10.

<sup>68</sup> Tr. at 194:4-20.

1 effectiveness tests. The specific programs, including more refined funding requirements, would then  
2 need to be approved by the Commission.<sup>69</sup> Staff also supports continuing to use the existing DSM  
3 adjustor mechanism, which equates to an annual surcharge to Southwest customers.<sup>70</sup> But this DSM  
4 surcharge would be applied to all customer classes, including the commercial sector.<sup>71</sup>

5 And although Southwest is requesting the CMT be approved before increasing its DSM  
6 requirements, it admits that no quantification of any financial disincentives have been associated with  
7 any of the DSM programs.<sup>72</sup> In addition, Staff cannot support the Company's late-requested  
8 performance incentive related to the DSM programs This performance incentive was only requested  
9 by Southwest in its rebuttal case and only after the Southwest Energy Efficiency Project/Natural  
10 Resources Defense Counsel ("SWEEP/NRDC") proposed it in their direct testimony.<sup>73</sup> Southwest's  
11 incentive proposal fails to include any incentive-program details, including cost and program  
12 particulars. Finally, Staff recognizes that natural gas is a precious commodity and thus supports  
13 efforts to use this resource more efficiently. So, DSM programs should be expanded and augmented  
14 regardless of any performance incentives or approval of the CMT. As Southwest has stated, it will  
15 abide by any Commission DSM order in good faith, even without an incentive program or the  
16 CMT.<sup>74</sup>

## 17 **VII. REVENUE REQUIREMENTS**

18  
19 As stated above, Staff is recommending about a 15.99 percent increase in Southwest's  
20 revenue requirements. This equates to a revenue increase of \$51,625,135, with a fair value rate base  
21 of \$1,171,566,722 and a fair value rate of return of 6.63 percent<sup>75</sup>.

22 There are four revenue requirements areas – aside from the cost of capital – where Staff and  
23 Southwest disagree:

24  
25 <sup>69</sup> Tr. at 177, 186-187.

26 <sup>70</sup> Tr. at 177-178.

27 <sup>71</sup> Tr. at 178, 182.

28 <sup>72</sup> Tr. at 178 – 179.

<sup>73</sup> Tr. at 191:22-25. See also Rebuttal Testimony of Vivian Scott, Exhibit A-14, at 6.

<sup>74</sup> Tr. at 191 – 192.

<sup>75</sup> See Surrebuttal Testimony of James J. Dorf, Exhibit S-4, at Schedule DRR-1.

- 1 1. Management Incentive Program ("MIP").
- 2 2. Transmission Integrity Management Program ("TRIMP").
- 3 3. Sarbanes-Oxley ("SOX").
- 4 4. Adjustment to deferred income taxes ("ADIT") based on changes made to federal
- 5 Internal Revenue regulations, resulting in an increase to rate base of \$21 million.

6 For the first three areas, Staff believes that all of these expenses benefit shareholders as well  
7 as ratepayers. Consequently, the expenses should be shared between shareholders and ratepayers. For  
8 TRIMP, Staff is recommending that a surcharge mechanism be established in this rate case. The costs  
9 for TRIMP are mostly projected costs not yet known and measurable, and the TRIMP program is less  
10 than two years old. The costs to implement SOX are also new and Southwest has not made the case  
11 that one-hundred percent of the costs it has incurred to date are going to be recurring. Finally, the fact  
12 that the new Internal Revenue regulations are not final, no tax payment was made by the end of the  
13 test year. With other changes coming with the passing of the 2005 Energy Policy Act ("EPA"), the  
14 recommended changes by Southwest to ADIT resulting in an increase of rate base of about \$21  
15 million, should not be allowed.

16 Finally, the area of Injuries and Damages, which had been an area of dispute between  
17 Southwest and Staff, has been resolved. Staff has recognized Southwest's increased premium costs  
18 and provision for self-insurance for liability claims. Southwest has agreed to use a ten-year  
19 amortization method for the self-insurance of liability claims. Hence, this issue is no longer an area of  
20 dispute between Staff and Southwest.

21 **A. MIP is a cost that should be shared equally between ratepayers and shareholders,**  
22 **because all five performance goals benefit both groups equally.**

23 MIP was also a hot topic of debate in Southwest's last rate case. There, the Commission  
24 agreed with Staff, and disallowed \$727,545, because the Commission recognized that two of the five  
25 performance goals are oriented to benefit shareholders.<sup>76</sup> The MIP in this case is the same as in the  
26 last rate case. Staff, RUCO and Southwest are all requesting different treatment here than what the  
27 Commission authorized in the last rate case, although each party has its own recommendation.

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28 <sup>76</sup> See Decision No. 64172 at 11:24-27, 12:4-8, 13:4-11.

1 Staff's argument for a 50/50 sharing between ratepayers and shareholders is that both  
2 ratepayers and shareholders benefit *equally* from all five performance targets in Southwest's MIP.<sup>77</sup>  
3 While Southwest achieving its return on equity benefits ratepayers as well as shareholders, for  
4 example, customer service satisfaction and improved customer-to-employee ratio benefits  
5 shareholders too. That is because all of the five factors in the MIP also allow shareholders a better  
6 chance for a better return on their investment. Staff points out that the five factors comprising the  
7 MIP awards were designed to align the interests of ratepayers and shareholders as a basis for  
8 calculating the compensation paid out.<sup>78</sup> Thus, Staff believes a 50/50 sharing between ratepayers and  
9 shareholders is appropriate, and that is why Staff is recommending a different treatment of this cost  
10 from what Staff advocated for in the last rate case.

11 **B. The TRIMP program is a new program where most costs are not yet known and**  
12 **measurable and which benefits both ratepayers and shareholder, thus justifying**  
13 **Staff's proposal for a surcharge to handle TRIMP costs.**

14 TRIMP is a federal program designed to better ensure the safety of natural gas pipelines in  
15 high consequence areas, or areas with high population densities. Staff recognizes the importance and  
16 necessity of these costs. But as Mr. Dorf for Staff describes in his testimony, much of the  
17 requirements under TRIMP commenced in 2004.<sup>79</sup> The program still has significant volatility and a  
18 long projection period for the first cycle of TRIMP costs, through 2012.<sup>80</sup> So, much of the costs  
19 associated with TRIMP are projected figures or estimates of the costs for TRIMP going-forward.<sup>81</sup>  
20 For the estimated TRIMP costs from 2004 through 2012 – a total of \$29,340,750 – only \$46,651 was  
21 incurred during the test-year and only \$717,864 was claimed as cumulative TRIMP costs through  
22 May 2005.<sup>82</sup> Furthermore, Staff's Pipeline Safety Section testified that costs to implement integrity  
23 management programs have been widely-varied throughout the country.<sup>83</sup> So, most of the costs are  
24 not actually known and measurable. Staff therefore believes the best treatment of TRIMP costs at this

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25 <sup>77</sup> Tr. at 1083:18-23.

26 <sup>78</sup> See Dorf Surrebuttal Testimony at 9:23-26.

27 <sup>79</sup> See Direct Testimony of James J. Dorf, Exhibit S-3 at 7:7-22.

28 <sup>80</sup> Tr. at 1082:9-12.

<sup>81</sup> Tr. at 631 – 632.

<sup>82</sup> See Dorf Direct Testimony at 8:19-25 and 9:4-6.

<sup>83</sup> Tr. at 1102:21 – 1103:12.

1 time, is to create a surcharge mechanism with the following characteristics:

- 2 • Annual adjustments at the end of the 12<sup>th</sup> and 24<sup>th</sup> month, and termination after the 36<sup>th</sup> month.
- 3 • A numerator including actual and projected recoverable TRIMP costs from 2004 through the
- 4 36-month period from when rates become effective, subtracting out previously recovered
- 5 surcharge amounts.
- 6 • A denominator including therms projected to be sold over the remaining portion of the 36
- 7 months post-decision-period.
- 8 • Other details as described in Staff's testimony.<sup>84</sup>

9 Staff would, of course, monitor this surcharge mechanism if adopted. Once a cost history is  
10 established for TRIMP, a normalized cost can be determined in the future and possibly included in  
11 base rates. Staff believes Staff's proposed surcharge mechanism best balances the need to advance an  
12 important and federally-mandated program with the need to ensure that ratepayers are protected from  
13 paying any more than they should.<sup>85</sup>

14 Staff also believes sharing of TRIMP costs between ratepayers and shareholders is  
15 appropriate. The goal of TRIMP is to ensure the safety of infrastructure, such as gas pipelines. Better  
16 insurance of safety, improvement of the ability to site pipelines and reduced damages from  
17 unexpected interruptions of gas service are all reasons that balancing of TRIMP costs between  
18 shareholders and ratepayers, is reasonable.<sup>86</sup> While the Nevada Commission may have granted  
19 Southwest an ability to defer 100 percent of TRIMP costs, the Nevada Commission also stated that  
20 ratepayers and shareholders should share in these costs.<sup>87</sup> Staff believes this aspect of the Nevada  
21 order should be adopted. But since Staff is recommending a surcharge in lieu of deferral, the 50/50  
22 sharing between ratepayer and shareholder should be approved and implemented here.

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26 <sup>84</sup> Dorf Direct Testimony at 11:18-12:9. An example of the surcharge mechanism is provided in Mr. Dorf's  
Direct Testimony at 13:14 – 14:5.

27 <sup>85</sup> Id at 12:11-16.

28 <sup>86</sup> Tr. at 1082.

<sup>87</sup> See Dorf Direct Testimony at 10:17-11:10. See also Nevada Commission Order No. 04-9012 at ¶¶ 36, 37.

1           **C. SOX legislation is recently-enacted and is to protect and benefit shareholders,**  
2           **even though ratepayers also receive benefits, thus justifying Staff's**  
3           **recommendations regarding SOX costs.**

4           SOX costs are costs associated with implementing the tougher accounting standards and  
5 tougher internal controls, specifically under Section 404 of SOX.<sup>88</sup> But it is also recently passed  
6 legislation.<sup>89</sup> As Staff points out in its testimony, there are multiple articles and publications  
7 suggesting that SOX costs will likely go down in the coming years.<sup>90</sup> Thus, Staff believes 75 percent  
8 of Southwest's costs for SOX will be recurring, but 25 percent of those costs will likely be non-

9 recurring and should not be included in rates.  
10           Furthermore, SOX was implemented because of recent accounting scandals which resulted in  
11 shareholders losing millions of dollars.<sup>91</sup> Staff is recommending a sharing of SOX costs because it  
12 recognizes the benefits of internal controls preventing inappropriate costs from being included in the  
13 cost of service. Thus, a portion of SOX costs benefits ratepayers. But the main purpose of SOX was  
14 to protect shareholders from management impropriety.<sup>92</sup> So, Staff believes a 50/50 sharing between  
15 shareholders and ratepayers of SOX costs is appropriate.

16           **D. Southwest's ADIT proposal does not include all of the regulatory changes, is the**  
17           **result of temporary regulations, and is the result of Southwest's discretionary**  
18           **decision to switch accounting methods in 2002, and thus should not be accepted.**

19           Southwest also proposes an adjustment in accumulated deferred income taxes resulting in an  
20 increase to rate base of over \$21 million. Southwest justifies this by stating that this is also a  
21 legislatively-enacted change like the changes to property tax expense that Staff proposed and  
22 Southwest accepted. But the two are not synonymous. The property tax adjustments made by Staff  
23 are known and measurable changes due to recently enacted state legislation reducing the property tax  
24 rate and excluding contributions in aid of construction from the definition of plant.<sup>93</sup> Property tax is  
25 an expense item. Staff agreed to use an assessment rate of 24.5 percent for determining property tax

26 <sup>88</sup> Dorf Direct Testimony at 15:9-13.

27 <sup>89</sup> Sarbanes-Oxley Act of 2002 § 404, 15 U.S.C.A. § 7262 (West, 2005).

28 <sup>90</sup> Dorf Surrebuttal Testimony at 6:17-25.

<sup>91</sup> Tr. at 560 – 561.

<sup>92</sup> See Dorf Surrebuttal Testimony at 6:25 – 7:4.

<sup>93</sup> See Direct Testimony of Dennis R. Rogers, Exhibit S-5, at 5:15-23.

1 expense.<sup>94</sup> By contrast, the deferred tax item deals with a method of accounting of capitalizing costs  
2 known as the simplified service cost method (“SSCM”). Southwest voluntarily changed from its  
3 historical method to the SSCM in 2002.<sup>95</sup> During the mid-year 2005, the United States Treasury  
4 Department (“Treasury”) adjusted the rules so that the SSCM method was no longer allowed.<sup>96</sup> In  
5 other words, in 2005 Southwest will have to change back from the SSCM to its historical method  
6 used before 2002. Also, although enacted rules, these are temporary rules. More importantly, while  
7 this change was enacted by Treasury, the 2005 EPA also will likely increase the amount of deferred  
8 taxes and cause a decrease in the rate base.<sup>97</sup> In other words, the act casts doubt as to whether the  
9 entirety of the changes to Southwest’s ADIT is really known and measurable. Thus, Staff does not  
10 support adjusting ADIT due to one change while ignoring other changes.

11 Finally, Southwest’s proposed adjustment is due to a change in accounting instead of an  
12 increase in actual costs. ADIT may have decreased, but Southwest made no tax payment as a result of  
13 the adjustment in accounting methods. Changing accounting methods to SSCM was something  
14 Southwest did voluntarily. Staff does not believe ratepayers should bear the \$21 million increase to  
15 rate base because of a voluntary change in accounting methods that occurred three-years ago that now  
16 has to be changed back, especially if Southwest made no tax payment as a result of the change in  
17 accounting methods.<sup>98</sup> For all of these reasons, Staff does not believe an approximate increase of \$21  
18 million to rate base by lowering ADIT by the same amount should be made here.

19 In summary, with many of the revenue requirement issues between Staff and Southwest –  
20 MIP, TRIMP and SOX – Staff is not disputing the reasonableness of the costs incurred. Staff,  
21 however, does believe that is not the only question to ask. The other question to ask is whether *all* of  
22 the costs are for the benefit of ratepayers. Clearly, MIP, TRIMP and SOX, include benefits  
23 specifically for shareholders. This is why a sharing between ratepayers and shareholders is  
24 appropriate. Furthermore, the evidence indicates that TRIMP costs are mostly projected costs at  
25

26 <sup>94</sup> See Surrebuttal Testimony of Dennis R. Rogers, Exhibit S-6, at 2:20.

27 <sup>95</sup> Tr. at 499:3 – 500:19.

28 <sup>96</sup> Tr. at 500:20 – 501:1.

<sup>97</sup> Tr. at 497:2-7.

<sup>98</sup> Tr. at 1084:10-12.

1 present, and SOX costs are likely to be reduced over time. So, Staff's revenue requirements  
2 recommendations on these issues balance the relevant factors to get to a reasonable result. With  
3 regards to ADIT, since *all* of the federal changes are not known and measurable, and since, unlike  
4 property tax expense, this is a rate base issue where no tax payment was actually made, Staff does not  
5 believe an adjustment to ADIT that Southwest is recommending is appropriate.

## 6 **VIII. COST OF CAPITAL**

7  
8 Staff concludes that an overall cost of capital ("COC") of 8.40 percent is reasonable. This is  
9 based on a hypothetical capital structure of 40 percent equity and a cost of equity ("COE") figure of  
10 9.50 percent. Staff's analysis for COE looks at current market conditions to derive a COE, versus an  
11 over-reliance on historical accounting returns on equity that depends too much on projected numbers,  
12 eliminates data asymmetrically, or relies too heavily on certain methodologies. Southwest's original  
13 recommendation was for an overall COC of 9.40 percent without the CMT and 9.29 percent with a  
14 CMT. This was modified at the evidentiary hearing. Southwest requests a hypothetical capital  
15 structure of 42 percent equity and a COE of 11.95 percent without the CMT and 11.70 percent with  
16 the CMT. Staff supports using a hypothetical capital structure of 40 percent equity and a COE figure  
17 of 9.50 percent.<sup>99</sup> The evidence presented in this case supports Staff's COC recommendations.

### 18 **A. Staff's recommended hypothetical capital structure should be adopted.**

19 In order to support Southwest's financial integrity, Staff recommends a hypothetical capital  
20 structure of 40 percent equity, 5 percent preferred stock and 55 percent debt to determine overall  
21 COC. This capital structure contains more common equity and less debt than Southwest management  
22 actually used to finance its utility plant. In fact, Southwest's actual equity ratio has fluctuated  
23 between 33 and 37 percent for the past 10 years.<sup>100</sup> Staff's recommendation is consistent with past  
24 Commission orders for Southwest. Staff sees no compelling reason to adopt a higher equity ratio of  
25 42 percent. To do so would mean ratepayers would pay even more in rates for equity the Company  
26 does not have. Furthermore, Staff believes that fifteen-plus years is long enough for ratepayers to

27  
28 <sup>99</sup> Tr. at 870 – 872.

<sup>100</sup> Tr. at 874:2-4.

1 subsidize Southwest under a hypothetical capital structure and the time has come to require  
2 Southwest to devise a plan to achieve an actual capital structure ratio of at least 40 percent equity.

3  
4 **1. Because Southwest has had a hypothetical capital structure in place for**  
5 **fifteen years, Staff's request for Southwest to provide a recapitalization**  
6 **plan is reasonable.**

7 Since 1990, this is the fifth rate proceeding before the Commission in which Southwest has  
8 asked for, and will likely receive, the benefits of a hypothetical capital structure.<sup>101</sup> Using such a  
9 capital structure involves balancing between the manner in which Southwest chooses to capitalize  
10 and the need to ensure Southwest's financial integrity, with how ratepayers can share in the savings  
11 the Company realizes using debt rather than equity.<sup>102</sup> While financial integrity is an important goal  
12 that benefits shareholders and can benefit ratepayers in the long run, the fact remains that ratepayers  
13 pay more when a hypothetical capital structure is used with a higher equity ratio. Ratepayers, in  
14 essence, provide financial assistance to Southwest by paying an equity return on a portion of rate base  
15 actually financed with debt.<sup>103</sup> And Southwest ratepayers have been doing this for over fifteen years.  
16 Southwest contends that Staff's recommendation for Southwest to provide a recapitalization plan is  
17 punitive, but all that Staff's recommendation does is provide notice that the actual capital structure  
18 may be recommended and adopted in a future rate case if Southwest does not achieve 40 percent  
19 equity.<sup>104</sup> Furthermore, capital structure is a management decision and is not merely a product of  
20 operating conditions or the market.<sup>105</sup> So, Staff believes that the time has come for Southwest to  
21 finally seek and achieve a 40 percent equity ratio in its capital structure, the equity ratio upon which  
22 its rates in Arizona have been set for well over a decade. Thus, Staff's request for a recapitalization  
23 plan is justified by the evidence presented in this case.

24  
25 <sup>101</sup> Tr. at 797:2-5.

26 <sup>102</sup> Tr. at 799:17-25. See also Decision No. 57745 at 45:6-17.

27 <sup>103</sup> Tr. at 874:8-11.

28 <sup>104</sup> See Direct Testimony of Stephen G. Hill, Exhibit S-1, at 26:10-13. Staff also recommended that it reserve  
the right to advocate for a reconfiguration of embedded debt costs, depending on how Southwest  
management chooses to capitalize its operations.

<sup>105</sup> Tr. at 875:2.

1                   **2. Staff's recommendation for 40 percent equity in Southwest's hypothetical**  
2                   **capital structure accurately represents the average total capital structure**  
3                   **for proxy distribution companies with a balancing of ratepayer interests.**

4                   Staff disagrees with Southwest's recommendation for 42 percent equity in the hypothetical  
5 capital structure. Southwest argues that 42 percent equity ratio adjusts properly for the amount of its  
6 investment risk.<sup>106</sup> But while Southwest argues that a capital structure excluding short-term debt  
7 should be the basis for comparison, Staff believes it is unreasonable to exclude short-term debt from  
8 the capital structure comparison. Short-term debt is still investor-supplied capital that the market is  
9 aware of.<sup>107</sup> Bond-rating agencies, when determining overall investment risk include consideration of  
10 short-term debt and the Company reports short-term debt in its published financial records.<sup>108</sup> So,  
11 Staff believes total capital structure – including short-term debt – is the appropriate basis for  
12 comparison to a proxy group of local gas distribution companies (“LDCs”).<sup>109</sup>

13                   Finally, the Nevada Commission, in its most recent order establishing Southwest's rates in  
14 that state, approved a 40 percent hypothetical capital structure, despite the same arguments presented  
15 here that Southwest proffered in that jurisdiction.<sup>110</sup> Clearly, the evidence supports a hypothetical  
16 capital structure of 40 percent as the best balancing of Company and ratepayer concerns.

17                   **B. Staff's COE recommendation is the optimum estimate that allows Southwest a**  
18                   **reasonable return on its rate base.**

19                   The cost of common equity (“COE”) must always be estimated. Estimating COE is a  
20 technical and involved process where multiple methodologies are used and multiple calculations are  
21 employed per each method. Staff's COE recommendation is the superior analysis because it best uses  
22 the various methods that should be employed and best incorporates all of the publicly available data.  
23 Staff's analysis is a rigorous, theoretically sound analysis similar to what has been consistently  
24 approved in other Commission orders. Specifically:

- 25                   • Staff's analysis properly emphasizes the discounted cash flow (“DCF”) method, but does not

26 <sup>106</sup> Tr. at 812:14-21.

27 <sup>107</sup> Tr. at 907:12 – 908:15.

28 <sup>108</sup> Tr. at 907:23 – 908:7.

<sup>109</sup> Tr. at 898:12-14.

<sup>110</sup> See Nevada Commission Order No. 04-3011 at ¶ 31.

1       rely solely on that method.

- 2       • Staff's analysis uses the capital asset pricing model ("CAPM"), but does not put too much
- 3       dependence on multiple methods using beta as a measure of risk.
- 4       • Staff properly takes into account the current economic climate in its COE recommendation.
- 5       • Staff also takes into account Southwest's riskier financial position in recommending a final
- 6       COE number at the high end of Staff's calculated range.

7 Staff's COE recommendation is based on sound economic principles, will produce a return  
8 commensurate with returns on investment for other LDCs allows the Company to continue to attract  
9 capital, adjusts for Southwest's relative risk, and supports the Company's financial integrity.

10                   **1. Primary reliance on the DCF model to estimate COE is appropriate and**  
11                   **reasonable in this case.**

12       One of the chief criticisms of Staff's COE recommendation is that the DCF model figures too  
13 prominently into Staff's analysis. But Staff's reliance on the DCF model is not misplaced, as  
14 Southwest suggests. Stephen G. Hill, Staff's Consultant on COC issues in this case, advocates the use  
15 of the DCF model as the primary estimator of COC, based on his extensive experience and expertise  
16 on COC and his reliance of many learned treatises on the subject. Even Mr. Hanley, Southwest's  
17 COC witness and critic of the DCF model in this proceeding, admitted it was "conceptually  
18 sound."<sup>111</sup> The Commission, like many other state utility commissions, has accepted the DCF model  
19 as a key component to any COE recommendation. In Southwest's most recent rate order, the Nevada  
20 Commission endorsed the DCF model as a reliable method to calculate cost of equity.<sup>112</sup> The  
21 evidence clearly justifies that primary reliance on the DCF model to determine COE is appropriate.

22       The problem with inaccurate DCF estimates is not so much with the DCF model itself, but  
23 with what variables are plugged the analysis to derive an equity cost estimate. Mr. Hill's analysis  
24 conforms to the efficient markets hypothesis to use all the publicly available data. Mr. Hill explains in  
25 detail that both intrinsic and external growth factor into his DCF analysis.<sup>113</sup> Historical and projected  
26

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27 <sup>111</sup> Tr. at 730:15.

28 <sup>112</sup> See Nevada Commission Order No. 04-3011 at ¶ 80.

<sup>113</sup> See Hill Direct Testimony at 28 - 29, 32 - 33, and Appendix B.

1 growth rates were calculated as part of the DCF analysis. These figures were checked and compared  
2 favorably with publicly-available data.<sup>114</sup> Staff's DCF analysis – deriving a 9.20 percent result – is  
3 comprehensive, thorough and balanced. Furthermore, Mr. Hill points out the fallacy in over-relying  
4 on past or projected returns on equity, since they are accounting figures that do not accurately portray  
5 current market conditions.<sup>115</sup> This is because the cost of equity capital is a market-based analysis that  
6 depends on the opportunity COC. In other words, COE is the market return investors can make on a  
7 similar-risk-investment opportunity; it is not the accounting profit that appears on a Company's  
8 income statement. In addition, the DCF was only one part of Staff's overall COE recommendation.

9  
10 **2. Staff's COE estimation properly incorporates additional COE methodologies.**

11 Staff gave appropriate weight to the CAPM in its COE analysis, as well as to two other  
12 methodologies. Mr. Hill does not over-depend on those methods relying on beta, which has been  
13 criticized as being an unreliable measure of investment risk.<sup>116</sup> In fact, Mr. Hill's DCF model  
14 criticized by Southwest produces a more favorable COE figure than the other models Mr. Hill  
15 employed.<sup>117</sup> Factoring in the economic climate, such as expectation of higher short-term interest  
16 rates in the near term, Staff recommends a COE range between 9.00 percent and 9.50 percent.<sup>118</sup>  
17 Furthermore, Staff's ultimate COE recommendation of 9.50 percent at the high end of Staff's range,  
18 factors in Southwest's leveraged capital structure and riskier financial position.<sup>119</sup>

19 **3. Southwest's COE estimation has many weaknesses.**

20 Southwest's COE witness, Frank Hanley, goes to great lengths to explain how, using his  
21 expert judgment and analysis, a COE recommendation of 11.95 percent, without the CMT, is  
22 appropriate. Staff finds many flaws with Mr. Hanley's recommendation, including the following:

- 23 • For his DCF analysis of his proxy group of eleven LDCs, Mr. Hanley excludes eight of eleven  
24 indicated DCF Return Rates, because it was his opinion that the lower cost rates, anything

25 <sup>114</sup> Hill Direct Testimony at 34.

26 <sup>115</sup> Tr. at 898:16 – 899:6, 909:5 – 911:1.

27 <sup>116</sup> Tr. at 877:9-25.

28 <sup>117</sup> Hill Direct Testimony at 37.

<sup>118</sup> Id.

<sup>119</sup> Id. at 40.

1 below 9.90 percent, was not indicative of what was being approved in other jurisdictions.<sup>120</sup>

2 But a recent Arkansas Public Service Commission order for the gas utility Centerpoint Energy  
3 Arkla, Docket No. 04-121-U and admitted as Exhibit S-20 in this case, approved a COE of  
4 9.45 percent. Mr Hanley's DCF analysis also ignores that the risk for an LDC like Southwest  
5 is similar to water, gas, and electric distribution companies, as indicated in Mr. Hanley's  
6 attached exhibits to his direct testimony.<sup>121</sup> While Southwest's own risk may be at the higher  
7 end of this sub-section, the overall risk of these companies is low compared to the other sub-  
8 sections within the Utility and Power Industry Sector.<sup>122</sup> Furthermore, Staff points to a West  
9 Virginia decision awarding 7.0 percent COE for a water distribution Company.<sup>123</sup> Thus, other  
10 similar-risk firms have received equity returns much lower than Mr. Hanley's arbitrary cut-off  
11 of 9.90 percent.

- 12 • Accordingly, using Mr. Hanley's own exhibits, the average for all of his DCF estimates for the  
13 11 proxy LDCs is 9.21 percent. This is a more balanced figure than the 10.36 percent number  
14 he reports.<sup>124</sup> Staff contends excluding all indicated DCF returns below 9.90 percent cuts off  
15 too much of the bell-curve and skews the DCF results upward to a into a level of un-reality  
16 and fantasy.
- 17 • Including all of the indicated DCF returns from Mr. Hanley's schedules would also fit into the  
18 efficient markets hypothesis. This further supports the use of a 9.21 percent, derived from Mr.  
19 Hanley's attached schedules. That percent is very close to Mr. Hill's 9.20 percent DCF  
20 result.<sup>125</sup>
- 21 • Looking at Exhibit FJH-7 from his direct testimony, Mr. Hanley calculates a 7.10 percent  
22 growth rate for Southwest, which is an average of Value Line projected growth and Thomson  
23 first-call projected five-year growth rate.<sup>126</sup> But the Value Line earnings growth rate of 10.50  
24

25 <sup>120</sup> Tr. at 697. See also Direct Testimony of Frank J. Hanley, Exhibit A-35, at Schedule FJH-7, Sheet 1, FN 6.

26 <sup>121</sup> See Hanley Direct Testimony, at Schedule FJH-2, Sheets 11-13.

27 <sup>122</sup> See also Tr. at 754 – 757.

28 <sup>123</sup> See Hill Direct Testimony at 4.

<sup>124</sup> Tr. at 876:18 – 877:8.

<sup>125</sup> See Hill Direct Testimony at 37.

<sup>126</sup> See also Hanley Direct Testimony, at Schedule FJH-10, Sheet 1.

1 percent is the highest of *five* Value Line projected growth rates, all of which Value Line  
2 publishes and makes available to investors.<sup>127</sup> Despite Mr. Hanley's use of only one of the five  
3 growth rates, the efficient markets hypothesis would support using all five growth rates for  
4 Southwest. Furthermore, Mr. Hill points out that earnings growth rates alone are not superior  
5 to quantitative analysis of underlying growth rate fundamentals.<sup>128</sup> Thus, the 7.10 percent  
6 DCF growth rate for Southwest, from Exhibit FJH-7, should also be called into question.

- 7 • Mr. Hanley's Comparable Earnings Method ("CEM") analyses, specifically the "conservative  
8 conclusions," are based on using 5-Year Projected Rates of Return between 9.90 percent and  
9 20.00 percent. The 9.90 percent has already been discussed above as also being the minimum  
10 authorized return on equity per Mr. Hanley's incomplete analysis. But the maximum  
11 authorized return on common equity for utilities, based on Mr. Hanley's own exhibits, was  
12 12.3 percent.<sup>129</sup> If Mr. Hanley used the minimum authorized equity return for utilities as the  
13 lower boundary and as a "reality check," then it is only reasonable to use the highest utility  
14 return awarded as the upper boundary. The result of averaging those projections between 9.90  
15 percent and 12.3 percent results is 10.85 percent. Staff contends that this average would be the  
16 more accurate reflection, if the CEM were to be used at all. But Mr. Hanley's CEM analysis is  
17 based on accounting returns and is not a market-based equity cost estimate, further casting  
18 doubt on the CEM's reliability to determine an appropriate COE.
- 19 • A big problem with the CEM is that it essentially tries to compare unregulated companies in  
20 wholly different industries with a regulated LDC, Southwest, who has a captive customer base  
21 within its service territory. While some measures of risk may share some similarities,  
22 comparing unregulated companies to regulated utilities is comparing apples to oranges at best,  
23 and may actually be comparing two entirely different food groups. Combine this with the fact  
24 that beta is incorporated into Mr. Hanley's CEM analysis, and the CEM is redundant on top of  
25

26  
27 <sup>127</sup> See Hanley Direct Testimony, at Schedule FJH-10, Sheet 2.

28 <sup>128</sup> See Surrebuttal Testimony of Stephen G. Hill, Exhibit S-2, at 19; Tr. at 875:20 – 876:4.

<sup>129</sup> See Hanley Direct Testimony, at Schedule FJH-15 and Rebuttal Testimony of Frank J. Hanley, Exhibit A-36, at Schedule FJH-24.

1 other models using beta, such as CAPM.<sup>130</sup> Staff contends the CEM is more unreliable and  
2 that the CAPM is preferred. The Commission has also acknowledged the use of the CAPM  
3 model towards determining a reasonable COE. Even so, Southwest's CAPM analysis also has  
4 flaws that bias the COE number upward.

- 5 • Much of Mr. Hanley's CAPM analysis as well as his risk premium analysis, were based on  
6 projected blue chip forecasts. These forecasts were higher than the actual yields for both  
7 treasury and corporate bonds.<sup>131</sup> So, both the risk free rates and the market-risk premiums in  
8 Mr. Hanley's model are artificially high because using actual figures would have lowered both  
9 variables.<sup>132</sup> While Mr. Hanley's modifications to his CAPM analysis – lowering the result by  
10 50 basis points – at the evidentiary hearing are more reflective of actual events, they are still  
11 projected numbers that are not as reliable to what actually has occurred.<sup>133</sup> In other words, Mr.  
12 Hanley's numbers came down because current projections are 50 basis points lower than the  
13 original projections. But current bond yields are over 100 basis points below these current  
14 projections<sup>134</sup>. Staff contends that actual numbers (i.e. the current bond yields), in Exhibit S-  
15 21 for example, should have been used to determine risk free rates and market-risk premiums.

16 The point of highlighting the above is to show that Southwest's original recommendation of  
17 11.95 percent is too high and is not supportable when all of the evidence is considered. The fact that  
18 Southwest has been unable to achieve its rate of return does not justify inflating the COE figure  
19 beyond what is appropriate and reasonable. Throwing money at the problem by allowing an equity  
20 return that exceeds the Company's costs is not appropriate. Staff's analysis represents a more  
21 reasonable balancing of the more reliable methodologies to determine COE without over-  
22 emphasizing particular theories, concepts or variables.<sup>135</sup>

23 Staff's recommendation is not close-minded to the realities faced by Southwest in the past few

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24 <sup>130</sup> Tr. at 769-73.

25 <sup>131</sup> Compare Hanley Direct Testimony, at Schedule FJH-13, Sheets 3-4, FN 2, and at Schedule FJH-11, Sheet  
26 6, FN 2, to the Federal Reserve H.15 Statistical Release, September 19, 2005, Exhibit S-21.

26 <sup>132</sup> Tr. at 761-67.

27 <sup>133</sup> Tr. at 878:14-16.

27 <sup>134</sup> Tr. at 878:23 – 879:3.

28 <sup>135</sup> Mr. Hill provides further testimony critiquing Southwest's COE determination, such as a reliance on the  
ECAPM method, which is detailed in his Direct Testimony at 40 – 58.

1 years. Staff's COE recognizes increased risk Southwest incurs due to its leveraged positions, and  
2 encourages the Company to improve its capital structure to achieve lower debt costs and improved  
3 financial health. Staff's recommendation for a 40 percent equity ratio and a hypothetical capital  
4 structure recognizes declining per customer usage, like the Nevada Commission did when it approved  
5 the same capital structure. Other facets of Staff's recommendations in this case seek to provide  
6 Southwest with improved revenue stability and a greater opportunity to achieve its rate of return. But  
7 Southwest's COC recommendations would disturb the delicate balance between ratepayer and  
8 shareholder interests far out of whack. A 42 percent hypothetical capital structure and an 11.70  
9 percent to an 11.95 percent COE – even Southwest's modified COE recommendation of about 11.20  
10 percent to 11.45 percent – does not appropriately balance ratepayer and shareholder interests. The  
11 reliable evidence is presented by Staff and supports Staff's recommendations.

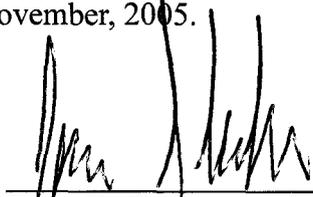
## 12 **VIII. CONCLUSION**

13  
14 This case boils down to burden and balance. Southwest failed to meet its burden for the CMT,  
15 and it should be rejected. Staff's rate design balances all the important factors that justify its rate  
16 design over Southwest's. Staff believes increased funding for DSM programs further advances  
17 efficient use of natural gas and conservation. While most of Southwest's requested increase is  
18 justified by the record in this case, Staff believes that TRIMP, MIP and SOX are costs for which  
19 shareholders should bear partial burden. Staff recommends a hypothetical capital structure that  
20 balances ratepayer and shareholder interests. Finally, Staff's COE recommendations is a balanced  
21 recommendation using methods the Commission has relied on for years while Southwest's analysis  
22 does not consider all the relevant data. Staff requests this Commission approve and adopt Staff's  
23 recommendations:

- 24 ● To reject the CMT because it is a disincentive to conserve, has the potential to greatly impact  
25 customers and because conservation has not been shown to be the predominant reason as to  
26 why Southwest cannot achieve its overall authorized rate of return.
- 27 ● To adopt its rate design that balances revenue stability with gradualism, affordability and  
28 conservation.

- 1 • To adopt Staff's recommendations on DSM, gas procurement, the LIRA program and other
- 2 customer-service and billing issues discussed above.
- 3 • To only partially accept TRIMP, MIP and SOX costs.
- 4 • To set up a surcharge mechanisms for TRIMP costs, because most of those costs are projected
- 5 numbers.
- 6 • To approve a hypothetical capital structure of 40 percent equity, 5 percent preferred stock and
- 7 55 percent debt.
- 8 • To approve a COE of 9.50 percent for an overall COC of 8.40 percent.

9  
10 RESPECTFULLY SUMMITTED this 4<sup>th</sup> of November, 2005.

11  
12  
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17 **The original and thirteen (13) copies**  
18 **of the foregoing were filed this 4<sup>th</sup> day**  
19 **of November, 2005, with:**

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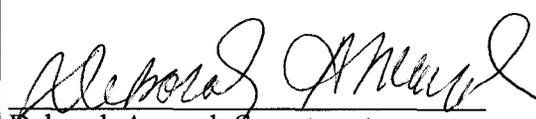
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