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BEFORE THE ARIZONA CORPORATION COMMISSION

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8 IN THE MATTER OF THE APPLICATION OF
 9 CHAPARRAL CITY WATER COMPANY,
 10 INC., AN ARIZONA CORPORATION, FOR A
 11 DETERMINATION OF THE FAIR VALUE OF
 12 ITS UTILITY PLANT AND PROPERTY AND
 13 FOR INCREASES IN ITS RATES AND
 14 CHARGES FOR UTILITY SERVICE BASED
 15 THEREON.

Docket No. W-02113A-07-0551

Arizona Corporation Commission
DOCKETED

FEB 27 2009

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RUCO'S REPLY BRIEF ON COST OF CAPITAL

INTRODUCTION

15 The Residential Utility Consumer Office ("RUCO") submits its Reply Brief on Cost of
 16 Capital in support of its position that the Arizona Corporation Commission ("Commission")
 17 should determine Chaparral City Water Company's ("the Company's") operating income
 18 utilizing the methodology adopted in Decision 70441.¹ RUCO recommends a capital structure
 19 composed of 4.08% short-term debt, 19.17% long-term debt, and 76.75% common equity.
 20 RUCO recommends a cost of short-term debt of 2.71%, and a cost of long-term debt of 5.34%.
 21 RUCO further recommends a cost of equity of 6.83%, which is RUCO's unadjusted cost of
 22 equity of 8.83% reduced 200 basis points for general inflation. RUCO recommends an overall

¹ In the Matter of the Application of Chaparral City Water Company, July 28, 2008, Docket No. W-02113A-04-0616.

1 cost of capital of 6.38%, which is conservative and results in a fair and reasonable
2 recommended rate of return.

3 **ISSUES IN DISPUTE**

4 **1. RUCO'S SUSTAINED GROWTH ESTIMATE MIRRORS THE**
5 **COMPANY'S.**

6 The Company complains that RUCO's constant Discounted Cash Flow ("DCF") analysis
7 should be rejected because it is based on a sustainable growth method that cannot be
8 replicated.² This argument is a red herring. Each expert develops his analysis using his own
9 methodology and judgment. Regardless of the methodology used by the experts in this case,
10 there is virtually no difference in their final conclusions. In his analysis, Thomas Bourassa, the
11 Company's cost of capital expert, estimated the average sustainable growth to be 6.39% for
12 his water utility sample.³ Mr. Rigsby's estimate of average sustainable growth for his water
13 utility proxy is 6.30% or 9 basis points lower than Mr. Bourassa's estimate.⁴ There is
14 essentially no difference between the experts' estimates of average sustainable growth for
15 water utility proxies. RUCO urges the Commission to reject the Company's argument.

16 **2. RUCO'S USE OF A GAS UTILITY PROXY IS APPROPRIATE.**

17 The Company complains that RUCO relied on a gas utility proxy in estimating its cost of
18 equity capital.⁵ The average beta for RUCO's natural gas sample is 0.82.⁶ The Company
19 contends that gas utilities are less risky investments than water companies as evidenced by
20 their low beta and therefore, should not be used as proxies for the Company.⁷ As David C.
21 Parcell, Staff's expert cost of capital witness testified:

22 *[T]here are four measures of risk. Beta is one, and beta is a market measure.... I would
23 also look at Value Line safety, which is done by Value Line using their computer*

24 ² Company's Closing Brief (Cost of Capital) at 38

³ See Exhibit A-19 Bourassa Direct Testimony at 33, Schedule D-4.7.

⁴ See Exhibit R-14 Rigsby Direct Testimony, WAR Schedule 4 page 1 of 2.

⁵ See Exhibit R-14 Rigsby Direct Testimony

⁶ T: 572-573. See also Exhibit R-14 Rigsby Direct Testimony, Schedule WAR 7, page 2 of 2.

⁷ T: 572

1 *models, Value Line financial strength, and Standard & Poor's stock ranking. So if you*
2 *want to compare risk, you have to use more than one factor.... I would not agree...risk*
3 *[is] based only upon the comparison of betas....*⁸

4 The Company's assertion that gas utilities with beta in the range of 0.80-0.90 are not
5 comparable for purposes of establishing a proxy group is erroneous because beta is not the
6 only measurement of risk to establish comparability.

7 Courts require greater analysis of elements of comparability than suggested by the
8 Company.⁹ In Litchfield Park Service Corporation v. Arizona Corporation Commission, the
9 Arizona Court of Appeals held that to determine an appropriate cost of equity capital, the
10 Commission needs to consider all relevant factors, including: (1) comparisons with other
11 companies having corresponding risks, (2) the attraction of capital, (3) current financial and
12 economic conditions, (4) the cost of capital, (5) the risks of the enterprise, (6) the financial
13 policy and capital structure of the utility, (7) the competence of management, and (8) the
14 company's financial history.¹⁰ Mr. Rigsby testified that he used gas utilities as a proxy because
15 they have similar operating characteristics to water companies in terms of distribution and
16 share similar risks.¹¹ Mr. Parcell supports Mr. Rigsby's analysis.¹² Mr. Parcell confirmed that
17 the movement among cost of capital analysts is to use gas utility proxies to derive cost of
18 capital for water companies.¹³ Mr. Parcell further testified that he "has seen a company
19 witness do so recently and has given consideration to doing so [himself]."¹⁴ Given that the gas
20 utilities share similar operating characteristics and similar risks and that the movement among
21

22 ⁸ T: 777

23 ⁹ Litchfield Park Service Corporation v. Arizona Corporation Commission, 178 Ariz. 431, 874 P.2d 988 (Ariz.
App. Div. 1 1994). See also United Railways & Electric Company of Baltimore v. West, 280 U.S. 234, 249-
50, 251, 50 S.Ct. 123, 125, 125-26, 74 L.Ed. 390 (1930); Simms v. Round Valley Light & Power Company, 80
Ariz.145, 154, 294 P. 378, 384 (1956).

24 ¹⁰ Id.

¹¹ T: 674, 693. See also R-14 Rigsby Direct Testimony, Schedule A and R-12 Value Line Industry Report

¹² T: 776

¹³ Id.

¹⁴ Id.

1 analysts is to utilize gas utilities, RUCO recommends the Commission reject the Company's
2 argument.

3 Chaparral's criticism of RUCO's use of a gas utility proxy is further undermined by the
4 Company's use of Connecticut, and Middlesex Water Companies in its water proxy.
5 Connecticut and Middlesex Water Companies have betas ranging between 0.80 and 0.90,
6 respectively.¹⁵ Chaparral cannot complain that RUCO used gas utilities with betas in the range
7 of 0.80-0.90 when one third of the utilities in the Company's water proxy have the same beta
8 range. Beta is just one of several ways of evaluating the risk of a security.¹⁶ The best way to
9 evaluate risk is to look at the accounting data and the actual returns paid.¹⁷ Higher betas do
10 not necessarily indicate that water companies are more risky.¹⁸ For these reasons, RUCO's
11 use of a gas utility proxy is appropriate.

12 **3. SOUTHWEST WATER IS COMPARABLE TO AMERICAN STATES**
13 **WATER AND THEREFORE AN APPROPRIATE WATER PROXY.**

14 The Company complains that RUCO should not have used Southwest Water Company
15 in its water proxy because it is involved in unregulated business and has a different market
16 risk.¹⁹ The Company use American States (AWR"), Chaparral's parent as a proxy. Southwest
17 Water Company and AWR share the same market beta of 1.05.²⁰ AWR provides the same
18 type of services as Southwest Water Company.²¹ AWR also provides unregulated contract
19 water and wastewater services, operation and management at seven military bases through its
20 subsidiary ASUS.²² AWR's annual report for 2007 states:

21 _____
22 ¹⁵ T: 573.

23 ¹⁶ T: 690-692, 777. See also United Railways & Electric Company of Baltimore v. West, 280 U.S. 234, 249-50,
24 251, 50 S.Ct. 123, 125, 125-26, 74 L.Ed. 390 (1930); Simms v. Round Valley Light & Power Company, 80
Ariz.145, 154, 294 P. 378, 384 (1956).

24 ¹⁷ Id.

¹⁸ Id.

¹⁹ T: 560. See also Exhibit A-21 Bourassa's Rejoinder Testimony at 27-28.

²⁰ See Exhibit R-14 Rigsby Direct Testimony, Schedule 7, pages 1-2.

²¹ See Exhibit R-12, Value Line Utility Industry Report dated October 24, 2008.

²² T: 565-569. See also Exhibit R-13 AWR 2007 Annual Report.

1 AWR is the parent of Golden State Water Company, Chaparral and American States
2 Water Services ("ASUS").... ASUS, a non-regulated company and its wholly-owned
3 subsidiaries, Fort Bliss Water Services Company, Terrapin Utility Services, Old
4 dominion Utility Services, Palmetto State Utility services and Old North Utility Services
provides full service contracts to operate and maintain water and wastewater systems
for the U.S. Army and Air force in Texas/ New Mexico, Maryland, Virginia, South
Carolina and North Carolina, respectively.²³

5 Given that the Company used AWR in its water proxy, and Southwest Water and AWR,
6 (through its subsidiary ASUS), offer nearly identical services and share identical risk as
7 measured by beta, there is no merit to the Company's complaint that RUCO included
8 Southwest Water in its analysis.

9 **4. RUCO'S ESTIMATE OF MARKET RISK PREMIUM IS MORE**
10 **CONSISTENT WITH RECENT EMPIRICLE DATA AND RESPECTED**
11 **AUTHORITIES THAN THE COMPANY'S ESTIMATE.**

12 The Company claims that RUCO's CAPM analysis is not reliable because it is based on
13 a historic market risk premium calculated using a geometric mean.²⁴ RUCO estimated its
14 historic risk premium, using both geometric and arithmetic means ranging between 4.90
15 percent and 6.5 percent, respectively.²⁵ A historic market risk premium calculated using an
16 average of geometric and arithmetic means is appropriate. Staff's witness concurs.²⁶

17 Regardless of the methodology or analysis, in the end, recent empirical research
18 supports RUCO's analysis of market risk premium.²⁷ Mr. Rigsby testified that empirical studies
19 performed by Aswarth Damdaran and Felicia C. Marston, professors of finance from New York
20 University and the University of Virginia, respectively, indicate that market risk premiums in
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22

23 ²³ Id.

24 ²⁴ See Exhibit A-21 Bourassa Rejoinder Testimony at 25-27 and Company's Closing Brief (Cost of Capital) at 39-45.

25 ²⁵ See Exhibit R-14 Rigsby Direct Testimony at 33.

26 ²⁶ T: 747

27 ²⁷ T: 647-649

1 excess of 4.5 to 5.5 percent are overstated.²⁸ Indeed, the text cited by Mr. Rigsby and Mr.
2 Bourassa, *Valuation: Measuring and managing the Value of Companies*, 4th Edition,²⁹ states:

3 *Although many in the finance profession disagree about how to measure the market risk*
4 *premium, we believe 4.5-5.5 percent is an appropriate range. Historical estimates found*
5 *in most textbooks (and locked in the mind of many), which often report numbers near 8*
6 *percent, are too high for valuation purposes because they compare the market risk*
7 *premium versus short-term bonds, use only 75 years of data, and are biased by the*
8 *historical strength of the U.S. market.*³⁰

9 Mr. Bourassa's risk premium using an arithmetic mean is 7.5 percent.³¹ RUCO's historic risk
10 premium using both an arithmetic and geometric means ranges between 4.90 percent and 6.5
11 percent.³² The average of RUCO's historic market premium using geometric and arithmetic
12 means is 5.7 percent, and falls reasonably close to the range identified as reasonable by
13 recent empirical research.³³ Mr. Bourassa's risk premium does not. The Commission should
14 accept RUCO's cost of equity capital recommendation because it is based on a market risk
15 premium that more closely approximates the appropriate range identified by recent empirical
16 data, financial authorities and treatises.

17 **5. RUCO'S CAPM ANALYSIS IS RELIABLE**

18 The Company claims that RUCO's CAPM analysis is not reliable because it is based on
19 mismatched treasury instruments.³⁴ Initially, RUCO used intermediate and long-term securities
20 to estimate the risk-free rate of return.³⁵ RUCO then recalculated its historic market risk
21 premium using matching intermediate treasuries.³⁶ RUCO's recalculated historic risk premium,
22 using both geometric and arithmetic means changes in range from 4.9 percent to 6.5 percent

23 ²⁸ T: 648

24 ²⁹ See Exhibit R-15 *Valuation: Measuring and managing the Value of Companies*, 4th Edition

³⁰ *Id.* at 306. See also, Exhibit A-21 at 14 and R-7, Rigsby's Direct Testimony at 21-22

³¹ See Company's Final Schedule D-4.13.

³² See Exhibit R-14 Rigsby Direct Testimony at 30-35

³³ T: 647-649.

³⁴ See Exhibit A-21 Bourassa Rejoinder Testimony at 25-27 and Company's Closing Brief (Cost of Capital) at 39-45.

³⁵ See Exhibit R-14 Rigsby Direct Testimony at 30-35

³⁶ T: 655-656. See also Exhibit R-17 Schedule WAR-1 Cost of Capital Summary and Exhibit R-18, Updated Schedule WAR-1 Cost of Capital Summary

1 to between 5.1 percent and 6.7 percent.³⁷ If RUCO then recalculated the cost of equity capital
2 based on the Company's methodology, the impact on its cost of equity capital would be an
3 additional 10 basis points or 6.38 percent to 6.48 percent.³⁸ The difference is negligible when
4 the higher market risk premium is taken into consideration. RUCO is not modifying its
5 recommended cost of equity capital because its original figure of 6.38 percent is based upon a
6 market risk premium, which exceeds the market risk premium recommended by the authorities
7 and empirical data referenced above. If RUCO used a market risk premium of 4.5-5.5 percent
8 as recommended by those authorities, its cost of equity capital would be much lower. RUCO
9 urges the Commission to reject the Company's argument and to adopt RUCO's risk free rate of
10 return as originally calculated.

11 **6. THE COMPANY'S COST OF EQUITY CAPITAL IS UNRELIABLE**
12 **BECAUSE IT IS BASED, IN PART, ON A CURRENT MARKET RISK**
13 **PREMIUM.**

14 The Company arrived at its CAPM 14.6% cost of equity capital by averaging a historical
15 market risk premium of 9.8% and a 19.4% current market risk premium.³⁹ Neither Staff nor
16 RUCO's expert witnesses agrees with the use of a current market risk premium in the present
17 depressed economy. Mr. Parcell testified that the current risk premium CAPM is not a proper
18 model in a very depressed market.⁴⁰ Mr. Parcell further testified that "the current market risk
19 premium CAPM model relies on a growth rate developed from a DCF analysis--based on the
20 growth of stock prices at a time when those stock prices have been extremely depressed."⁴¹
21 Mr. Parcell further testified that development of a growth rate from stocks priced in an
22

23 ³⁷ Geometric mean risk free premium recalculated is $10.4\% - 5.30\% = 5.1\%$, Arithmetic Mean risk free premium
24 recalculated is $12.3\% - 5.5\% = 6.7\%$.

³⁸ T: 654.

³⁹ See Exhibit A-21 Bourassa Rejoinder Testimony at 6-8 and 25-27.

⁴⁰ T: 746.

⁴¹ Id.

1 extremely depressed market leads to a CAPM which is "simply too high."⁴² Mr. Parcell rejected
2 the Company's current market risk premium CAPM model to derive a cost of equity capital.⁴³

3 William Rigsby, RUCO's expert witness, testified that use of a historic market risk
4 premium to derive a CAPM cost of equity capital is appropriate.⁴⁴ Reliance on past
5 performance as an indicator of future performance is more sound than reliance on analysts'
6 projections of market return and treasury yields, particularly in the current economic
7 circumstances. RUCO recommends, and Staff concurs,⁴⁵ that the Commission should reject
8 the Company's CAPM analysis because it is based, in part, on a current risk premium.

9 **7. THE COMPANY'S COST OF EQUITY CAPITAL EXCEEDS**
10 **COMPOSITE STATISTICS BY 1,190 BASIS POINTS**

11 The Company's use of a 19.4% current market risk premium to determine a cost of
12 equity capital is inconsistent with the most recently available market data.⁴⁶ The Value Line
13 Quarterly Report for the Water Utility Industry, dated October 24, 2008, provides composite
14 statistics for the water industry.⁴⁷ Value Line's projections for the return on common equity for
15 the water industry for the five year period through 2013 is 7.50%.⁴⁸ The difference between
16 the Company's expected return on common equity using a current market risk premium CAPM
17 and Value Line's estimate is 1,190 basis points.⁴⁹ RUCO recommends the Commission reject
18 the Company's CAPM analysis because it is entirely incongruent with the most recently
19 reported composite market data for the water industry.

20 ///

21 ///

22 _____
23 ⁴² T: 759.

⁴³ T: 746, 759-761

⁴⁴ T: 686-687.

⁴⁵ T: 746, 759-761.

⁴⁶ T: 580, 759-761. See also R-12 Value Line Quarterly Report for Water Utility Industry dated Oct. 24, 2008.

⁴⁷ Id.

⁴⁸ Id.

⁴⁹ Id.

1 **8. RUCO'S COST OF EQUITY CAPITAL WAS DETERMINED BASED**
2 **UPON THE METHODOLOGY ADOPTED BY THE COMMISSION IN**
3 **DECISION NO. 70441.**

4 RUCO's methodology mirrors the methodology adopted by the Commission in the
5 remand proceeding. RUCO recommends a cost of equity of 6.83%, which is RUCO's
6 unadjusted cost of equity of 8.83% reduced 200 basis points for inflation. RUCO's
7 recommended cost of equity capital meets the criteria established in the landmark Supreme
8 Court cases of Bluefield Water Works & Improvement Co. v. Public Service Commission of
9 West Virginia (262 U.S. 679, 1923) and Federal Power Commission v. Hope Natural Gas
10 Company (320 U.S. 391, 1944).

11 The Company asserts that the role of regulation is to duplicate the competitive market.⁵⁰
12 RUCO acknowledges that the fundamental premise of the return on rate base approach to rate
13 making is to allow utilities an opportunity to recover their actual costs, including their actual
14 cost of capital, consistent with competitive industries.⁵¹ The Company asserts that the
15 Weighted Average Cost of Capital ("WACC") is the "fair rate of return" regardless of the rate
16 base applied.⁵² The Company is wrong. An appropriate return is one that compensates the
17 Company for its costs, but does not overcompensate for its cost.⁵³ If the end result of
18 multiplying WACC to Original Cost Rate Base ("OCRB") is just and reasonable rates, then the
19 end result of multiplying a WACC, which fails to reflect the effects of inflation, to the Fair Value
20 Rate Base ("FVRB") will be excessive if FVRB is systematically higher than OCRB (as it is
21 under the Commission's rate base methodology).⁵⁴

22
23 ⁵⁰ Company's Closing Brief at 10.

24 ⁵¹ See Exhibit R-14 Rigsby Direct Testimony at 6-7 and 36-37 referencing the Exhibit R-21 Surrebuttal
Testimony of Ben Johnson, Ph.D., filed in Docket No. W-02113A-04-0616 at 8-16.

⁵² Company's Closing Brief at 20-24.

⁵³ See Exhibit R-14 Rigsby Direct Testimony at 6-7 and 36-37 referencing the Exhibit R-21 Surrebuttal
Testimony of Ben Johnson, Ph.D., filed in Docket No. W-02113A-04-0616 at 8-16.

⁵⁴ Id.

1 FVRB includes a measure of general inflation because it is based, in part, on
2 reproduction cost.⁵⁵ In recognition thereof, RUCO suggests that an element of general inflation
3 be deducted from the WACC to avoid the double-counting of inflation, which is reflected in both
4 the cost of capital and the FVRB.⁵⁶ RUCO's recommendation is consistent with the
5 Commission's prior determination of this matter. In Decision No. 70441, (the "remand
6 proceeding"), the Commission agreed that a double-counting of inflation in rate base and the
7 rate of return would be unfair and overcompensate investors.⁵⁷ Consequently, the Commission
8 adopted a methodology, which factored the effects of inflation out of the cost of equity to arrive
9 at an overall cost of capital.

10 In this case, consistent with the remand proceeding, RUCO deducted 200 basis points
11 from the unadjusted cost of equity of 8.83 percent to derive its recommended cost of equity of
12 6.83 percent.⁵⁸ RUCO then weighted the inflation-adjusted cost of equity and cost of long and
13 short-term debt to derive an overall cost of capital of 6.38 percent.⁵⁹ RUCO's methodology
14 mirrors the methodology adopted by the Commission in the remand proceeding and should be
15 adopted by the Commission in this case.

16 The Company relies on case law from other state jurisdictions to support its argument
17 that the WACC should apply to FVRB.⁶⁰ The Company cited to these same authorities in the
18 remand proceeding.⁶¹ The Commission stated the Company's reliance on Duke Power was
19 misplaced because the case was decided based on a statutory mandate particular to North
20

21
22 ⁵⁵ Id.

⁵⁶ Id.

⁵⁷ See Decision No. 70441. for ease of reference RUCO will refer to Decision No. 70441` as the remand proceeding because it was a proceeding that was remanded to the Commission by the Arizona Court of Appeals. The matter was determined by the Commission in Decision No. 70441 and appealed by the Company. The appeal is currently pending.

⁵⁸ See Exhibit R-14 Rigsby Direct Testimony at 35-37.

⁵⁹ Id.

⁶⁰ Company's Closing Brief at 23-25, citing State ex rel. Utilities Comm'n v. Duke Power Co., 206 S.E.2d 269, 281 (N.C. 1974) and City of Alton v. Commerce Comm's 165 N.E. 2d 513(Ill.1960).

⁶¹ See Decision No. 70441.

1 Carolina for which Arizona has no corresponding statutory or constitutional provision.⁶² The
2 Commission discounted the City of Alton decision indicating that the several methods of
3 computing the appropriate rate of return in the Alton case seemed to be “after-the-fact
4 determinations, as opposed to methods to use or determinations made to set rates.”⁶³ RUCO
5 incorporates by reference the Commission’s analysis in Decision No. 70441 and urges the
6 Commission to proceed in a manner consistent with Decision No. 70441.

7 **9. RUCO’S OVERALL COST OF CAPITAL 6.38% IS NOT TOO LOW.**

8 The Company asserts that RUCO’s FVRB of 6.38% is too low.⁶⁴ In support of its
9 position, the Company cited a Federal Reserve Statistical Release, (“FRSR”), asserting that
10 the interest rate on investment grade (Baa) bonds is 9%.⁶⁵ The Company’s reliance on the
11 FRSR is misplaced because the FRSR does not distinguish the rates of return for utility bonds
12 from other corporate bonds.⁶⁶ The rate of return for the Company should be based on the
13 returns of regulated utilities as opposed to the returns of other corporations.⁶⁷ RUCO
14 recommends the Commission consider the Value Line Investment Survey, (“Value Line”),
15 which contains statistical analysis of corporate bond yields, but distinguishes yields on utility
16 bonds from yields on other corporate bonds.⁶⁸ In the Value Line dated January 9, 2009, the
17 return on corporate utility bonds for 25-30 year grade Baa/BBB is 6.58% and the yield three
18 months prior was 6.61%.⁶⁹ The yields reported by Value Line support RUCO’s recommended
19 FVRB rate of return of 6.38%.

20
21
22 ⁶² Id.

⁶³ Id.

⁶⁴ T: 582. See also Exhibit A-21, Bourassa Rejoinder Testimony at 22.

⁶⁵ Id. at 583, citing the Federal Reserve Statistical Release, Schedule H-15, dated (November 24, 2008). See also Exhibit A-17 Federal Reserve Statistical Release dated January 7, 2009.

⁶⁶ T: 583-584.

⁶⁷ T: 641-43.

⁶⁸ See Exhibit R-16 Value Line Investment Survey, dated January 9, 2009.

⁶⁹ Id.

1 **CONCLUSION**

2 The goal of regulation has always been, and remains, to produce results in the utility
3 sectors that parallel those obtained under conditions of competition. If, as the Commission has
4 determined in Decision No. 70441, the appropriate way to derive the Fair Value Rate of Return
5 is by adjusting for the effects of general inflation, then the Commission should adopt RUCO's
6 recommendation. RUCO's general inflation adjustment of 2% is conservative and allows the
7 Company the opportunity to earn a fair rate of return (6.38%) on its investment.

8 RESPECTFULLY SUBMITTED this 27th day of February 2009

9 
10 Michelle L. Wood
11 Counsel

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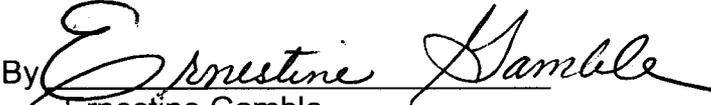
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