

ILLINOIS COMMERCE COMMISSION

IAWC EXHIBIT 12.30

SURREBUTTAL TESTIMONY OF

PAULINE M. AHERN

ILLINOIS-AMERICAN WATER COMPANY

DOCKET NO. 07-0507

TABLE OF CONTENTS

	Page
I. INTRODUCTION	1
II. PURPOSE OF TESTIMONY	1
III. RESPONSE TO STAFF WITNESS KIGHT-GARLISCH.....	1
IV. RESPONSE TO IIIWC WITNESSES GORMAN AND JANOUS.....	5
V. RESPONSE TO CUB WITNESS THOMAS	17

**SURREBUTTAL TESTIMONY
OF
PAULINE M. AHERN**

Exhibit No. 12.30

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22

I. INTRODUCTION

Q1. Please state your name.

A. My name is Pauline M. Ahern.

Q2. Are you the same Pauline Ahern who provided direct and rebuttal testimony in this proceeding?

A. Yes.

II. PURPOSE OF TESTIMONY

Q3. What is the purpose of your surrebuttal testimony?

A. The purpose of my surrebuttal testimony is to respond to the rebuttal testimony of Staff witness Sheena Kight-Garlich, Illinois Industrial Water Consumers (“IIWC”) witnesses Michael Gorman and Brian Janous, and Citizens Utility Board (“CUB”) witness Christopher Thomas.

III. RESPONSE TO STAFF WITNESS KIGHT-GARLISCH

Q4. Please address Ms. Kight-Garlich’s revised return on equity (“ROE”) recommendation of 10.38%.

A. Ms. Kight-Garlich has revised her ROE recommendation to 10.38% without providing any additional rationale other than that which she provided in her direct testimony, ICC Staff Exhibit 1.0, at page 29, line 554 through page 30, line 556 and lines 570 - 572. In her direct testimony, Ms. Kight-Garlich applied the quarterly version of the constant-growth Discounted Cash Flow (“DCF”) model utilizing Zacks consensus forecasted 5-year growth rates in earnings per share (“EPS”). Because the Water Sample growth rates were “much higher than the

23 long-term growth forecasts for the United States economy of 4.37% and 5.57%,”
24 she concluded, at lines 555 and 556 on page 30 of ICC Staff Exhibit 4.0, that
25 they were “not likely to be sustainable for the long-term.” Based upon this
26 conclusion, coupled with her opinion that the beta estimates for the Water
27 Sample should receive less weight in estimating IAWC’s cost of common equity,
28 she gave only one-third (1/3) weight to her Water Sample while giving two-thirds
29 (2/3) weight to her Utility Sample. In ICC Staff Exhibit 14.0, her rebuttal
30 testimony, Ms. Kight-Garlich uses precisely the same rationale. She provides no
31 additional information or insight to justify the change from her initial reliance upon
32 the quarterly DCF model to the non-constant DCF (“NCDCF”) model now. The
33 only difference is a much lower resultant common equity cost rate.

34 In addition, Ms. Kight-Garlich acknowledges, at lines 86 and 87 on page
35 5 of ICC Staff Exhibit 14.0, that the NCDCF “necessitates greater reliance on rate
36 of return analysts’ judgment than the constant-growth DCF analysis.” She further
37 states that at lines 88 - 90 on page 5 that, “under certain circumstances,
38 measurement error associated with a constant-growth DCF analysis exceeds
39 that associated with a NCDCF model.” However, her rebuttal testimony does not
40 provide any empirical support that the unidentified “certain circumstances” exist
41 relative to her application of the constant-growth DCF model as presented in her
42 direct testimony, ICC Staff Exhibit 4.0. Based upon both her direct and rebuttal
43 testimonies, these “certain circumstances” are merely that the Zacks’ forecasted
44 5-year earnings per share (EPS) growth rate which she utilized in her direct
45 testimony are, in her opinion, greater than the expected growth in the general

46 economy as measured by the nominal growth in Gross Domestic Product
47 (“GDP”), and therefore she concludes that the constant-growth DCF model is not
48 appropriate to use to arrive at a cost rate of common equity capital for IAWC in
49 the instant proceeding. However, these “certain circumstances”, i.e., the
50 relationship between the average Zacks’ 5-year EPS growth rates for her sample
51 groups relative to expected growth in GDP, existed at the time of the preparation
52 of her direct testimony, ICC Staff Exhibit 4.0. In her direct testimony Ms. Kight-
53 Garlisch testified that the constant-growth DCF model utilizing the Zacks’ 5-year
54 EPS growth rates was appropriate. Moreover, she does not provide any
55 empirical support that the expected growth in GDP is an appropriate measure of
56 sustainable growth rate for utility companies, in general, and water companies, in
57 particular. She merely states that the sustainability of the average Zacks’
58 forecasted EPS growth rate of 9.16% for her Water Sample is “dubious” at lines
59 99 and 100 on page 5 of ICC Staff Exhibit 14.0 and that the 5.54% average
60 Zacks’ forecasted EPS growth rate for her Utility Sample, which is only 54 basis
61 points (0.54%) above the forecasted 5.0% nominal growth in the economy cited
62 at line 95 on page 5 of ICC Staff Exhibit 14.0, is “questionable” at line 109 on
63 page 6 of ICC Staff Exhibit 14.0.

64 The real crux of the issue is what investors do when evaluating the
65 expected growth, or market appreciation, when making their pricing decision
66 relative to common stock. As discussed in my rebuttal testimony, IAWC Exhibit
67 12.10, at line 808 on page 30 through line 884 on page 32, there is a wealth of
68 empirical and academic research, of which investors are aware, which supports

69 the superiority of analysts' forecasts of EPS, such as those provided by Zacks,
70 as measures of investor expectations.

71 Hence, Ms. Kight-Garlich has provided no supportive rationale or
72 empirical support for her change in methodology.

73 **Q5. Is Ms. Kight-Garlich's characterization of your rebuttal testimony, IAWC**
74 **Exhibit 12.10, at lines 221 - 230 on page 12 of ICC Staff Exhibit 14.0,**
75 **accurate?**

76 **A.** No. My rebuttal testimony, at lines 894 - 896 of IAWC Exhibit 12.10, relative to
77 the results of Mr. Janous' two stage DCF analysis was that they failed a common
78 sense test in that they are inconsistent with, because they fall below, the range of
79 authorized ROEs shown on Schedule 12.20 accompanying IAWC Exhibit 12.10.
80 And, because IAWC is more risky than the companies in either of Mr. Janous'
81 two proxy groups, his results grossly understate the common equity cost rate
82 applicable to IAWC (lines 899 - 900 of IAWC Exhibit 12.10). Furthermore,
83 considering that I included a 12.22% average CAPM derived common equity cost
84 rate for my proxy group of thirteen utilities selected based upon least relative
85 distance shown on Line No. 2 on page 2 of Schedule 12.01, in arriving at my
86 recommended common equity cost rate of 11.25%, her conclusion that my "logic"
87 would lead to the elimination of her CAPM results of 11.75% for her Utility
88 Sample and 12.11% for her Water Sample is mistaken.

89

90

91 **Q6. At lines 231 – 239 of ICC Staff Exhibit 14.0, Ms. Kight-Garlich states that**
92 **you fail “to specify critical factors that influenced the allowed returns in”**
93 **the authorized ROEs presented in IAWC Exhibit 12.10, Schedule 12.20.**
94 **Please comment.**

95 **A.** The specific factors identified by Ms. Kight-Garlich are irrelevant. The point of
96 the matter is that Schedule 12.20 presents the authorized ROEs and related
97 common equity ratios. Furthermore, the average authorized common equity ratio
98 of all litigated cases shown on page 2 of Schedule 12.20, 48.21%, indicates that
99 these companies have slightly less financial risk than IAWC based upon IAWC
100 witness Jenkins’s recommended common equity ratio of 43.77% shown on IAWC
101 Exhibit No. 2.22. The companies shown in Schedule 12.20 are among the
102 companies with which IAWC, through American Water Capital Corp. (AWCC)
103 must compete for capital in the capital markets. Consequently, Ms. Kight-
104 Garlich’s comments are misplaced.

105 **IV. RESPONSE TO IIIWC WITNESSES GORMAN AND JANOUS**

106 **Q7. Please address Mr. Gorman’s claim, at lines 234 – 247 of IAWC Exhibit 4.0,**
107 **that an ROE “in the low 10% area” is sufficient for IAWC to maintain**
108 **financial integrity.**

109 **A.** Mr. Gorman cites a November 15, 2007 Standard & Poor’s (“S&P”) report which
110 notes that American Water Works (“AWW”) enjoys a supportive regulatory
111 environment and then makes the nexus that an average authorized ROE for
112 AWW’s utility subsidiaries of 10.0% is “supportive of...its utility affiliates’ credit
113 standing.” However, S&P is silent relative to any specific utility subsidiary of
114 AWW. In addition, S&P does not rate IAWC’s credit standing. The only record

115 S&P provides for IAWC is shown in Schedule 12.31 which merely lists a profile of
116 IAWC and related entities. Nowhere, does S&P provide a credit rating, bond
117 rating, rating rationale, business risk profile or financial risk profile. Therefore,
118 there is no support for Mr. Gorman's conclusion that S&P would view an
119 authorized ROE for IAWC "in the low 10% area" as supportive of IAWC's credit
120 standing.

121 **Q8. At line 306 on page 15 through line 320 on page 16 of IAWC Exhibit 4.0, Mr.**
122 **Gorman maintains his claim that IAWC is a low-risk regulated utility**
123 **company. Please comment.**

124 **A.** My disagreement with Mr. Gorman's conclusion of IAWC as a low-risk regulated
125 utility company is in relation to the riskiness of the proxy companies utilized by all
126 witness in this proceeding. It is indisputable that S&P characterizes the
127 regulated operations of AWW, and by inference IAWC, as of low operating risk.
128 However, as discussed on page 35 of IAWC Exhibit 12.10, line 953 through page
129 36, line 980, IAWC, as proxied by both American Water Capital Corporation
130 ("AWCC") and AWW, has greater, not less risk, than my proxy companies, and
131 indeed less risk than any of the proxy companies utilized by any witness in this
132 proceeding, as evidenced by pages 1 and 2 of Schedule 12.25 accompanying
133 IAWC Exhibit 12.10. Both AWCC and AWW have been assigned a credit rating
134 of "A-" and an "Aggressive" financial risk profile, both of which are more risky
135 than the average credit ratings and financial risk profiles of all the proxy
136 companies utilized in this proceeding, as shown on pages 1 and 2 of Schedule
137 12.25. In addition, a review of either S&P's November 9, 2007 (Schedule 12.32)

138 Issuer Ranking: U.S. Investor-Owned Water Utilities, Strongest to Weakest,
139 based upon S&P's former business profile system or the more current February
140 7, 2008 (Schedule 12.33) Issuer Ranking: U.S. Investor-Owned Water Utilities,
141 Strongest to Weakest, based upon S&P's new business risk / financial risk
142 matrix, reveals that AWW and AWWC are at the bottom of the ranking lists and
143 hence, characterized by S&P as the weakest (and hence riskiest) water utilities
144 among those ranked by S&P. Therefore, notwithstanding S&P's characterization
145 of AWW as a low-risk regulated water utility, its regulated water subsidiaries
146 including IAWC, are among the riskiest of the water utilities, whether measured
147 by S&P's current matrix or S&P's former business profile system. Thus, IAWC
148 continues to be riskier than the average utility in any of the proxy groups utilized
149 by the rate of return witnesses in this proceeding.

150 **Q9. At lines 325 and 326 of IWC Exhibit 4.0, Mr. Gorman states that you have**
151 **stated “that a growth rate does not need to be in line with the long-term**
152 **nominal growth of GDP.” Please comment.**

153 **A.** Mr. Gorman mischaracterizes my testimony. To clarify the record, my testimony
154 on pages 36 and 37, lines 985 – 993 states the following:

155 First, on lines 106-108 on page 6 of his Direct Testimony, Mr. Gorman
156 asserts that growth rates, i.e., analysts consensus forecasts of growth in
157 EPS, “are excessive and cannot be sustained in the long run.” Previously
158 in [the] this Rebuttal Testimony I have discussed and demonstrated that
159 these are the appropriate growth rates to utilize in a DCF analysis.
160 Moreover, there is no empirical evidence that investors do not rely upon
161 analysts' EPS growth rate forecasts. In addition, the use of such forecasts
162 is consistent with the prospective nature of ratemaking, cost of capital
163 analysis and the Commission Staff's practice of using such forecasts in its
164 cost of common equity analyses.”

165 Hence, Mr. Gorman’s characterization of my rebuttal testimony is
166 inaccurate. Moreover, Mr. Gorman has not provided any empirical evidence to
167 refute my testimony nor which indicates that investors do rely upon the long-term
168 nominal growth of GDP in making their pricing decisions and equity return
169 expectations for public utility companies, or indeed, for any type of enterprise. In
170 addition, Mr. Gorman has ignored the wealth of empirical and academic research
171 which supports the superiority of analysts’ forecasts of EPS, such as those
172 provided by Zacks, as measures of investor expectations as discussed in my
173 rebuttal testimony, IAWC Exhibit 12.10, at line 808 on page 30 through line 884
174 on page 32.

175 **Q10. At lines 338 – 340 of IAWC Exhibit 4.0, Mr. Gorman states that “right now**
176 **utility companies are rapidly growing firms because of the growth in rate**
177 **base and related increase in utility earnings.” Please comment.**

178 **A.** Mr. Gorman’s statement implies that current investment and growth in water
179 utility rate base is a temporary phenomenon. However, it is well known that
180 water utilities are much more capital intensive than electric and gas, natural gas
181 or telephone utilities, as discussed on page 9, line 168 through page 10, line 176.
182 As shown on Schedule 12.34, the greater relative capital intensity of water
183 utilities has been persistent for the ten years ending 2006 at an average 2.24
184 times greater than that of electric utilities, 2.59 times greater than that of
185 combination electric and gas utilities, 3.01 times greater than that of gas
186 distribution utilities and 3.05 times greater than that of telephone utilities. Based
187 upon the stability of the relationship of the capital intensity of water utilities

188 relative to that of other types of utilities, it is clear that water utilities will continue
189 to be substantially more capital intensive than other types of utilities well into the
190 future. Value Line Investment Survey supports this position when they state on
191 Schedule 12.35, which is a copy of Value Line's January 25, 2008 Water Utility
192 Industry summary:

193 However, long term, we worry that many water utilities lack the finances to
194 keep up with *the elevated infrastructure costs that should persist for years*
195 *to come*. (italics and underline added for emphasis)

196 * * *

197 Water providers have seen maintenance costs jump considerably in
198 recent years, as aging infrastructure required repairs and, in many cases,
199 even rebuilding. However, we suspect that *many systems are still*
200 *outdated and require additional renovations*. That, coupled, with more
201 stringent water purification standards, due to greater fears of bioterrorism,
202 *ought to result in high costs for the foreseeable future*. Unfortunately,
203 many companies here do not have the finances to fund these endeavors
204 and will be forced to look to outside financiers to help meet the costs.
205 (italics added for emphasis)

206 * * *

207 ...any gains we envision stemming from an improving regulatory
208 landscape and/or penetration into new markets, will likely be offset by
209 rising interest costs and *higher sharecount*. (italics added for emphasis)

210 Not only does Value Line expect continued, persistent investment in water utility
211 infrastructure, it expects an increase in the number of common shares
212 outstanding for water utilities which, while dampening the effect of the
213 “temporary” increase in utility earnings Mr. Gorman envisions on a per share
214 basis, would still result in a level of EPS growth in line with the 5-year analysts’
215 consensus growth rates utilized by the witnesses in this proceeding and deemed
216 unsustainable by Staff, CUB and IIWC.

245 Clearly, then, the water utility industry will continue to experience substantial
246 investment in infrastructure, i.e., rate base, and rate base which will also continue
247 grow substantially well into the future. Consequently, Mr. Gorman's implication
248 that the current growth in rate base and earnings related thereto is temporary is
249 unfounded.

250 **Q11. At lines 351 – 356 of IWC Exhibit 4.0, Mr. Gorman quotes Eugene F.**
251 **Brigham and Joel F. Houston. Please comment.**

252 **A.** I do not have a copy of the specific text book cited by Mr. Gorman. However, the
253 quotation also appears on page 164 of Intermediate Financial Management, 9th
254 Ed., Eugene F. Brigham & Phillip R. Daves, Thomson/South-Western, 2007. In
255 this book, the quotation does not end at the end of Mr. Gorman's quotation. The
256 entire paragraph from Intermediate Financial Management (see Schedule 12.37)
257 reads:

258 The constant growth model is often appropriate for mature companies
259 with a stable history of growth. Expected growth rates vary somewhat
260 among companies, but dividend growth for most mature firms is
261 generally expected to continue to the future at about the same rate as
262 nominal gross domestic product (real GDP plus inflation). On this basis,
263 one might expect the dividends of an average, or "normal," company to
264 grow at a *rate of 5 to 8 percent a year.* (italics added for emphasis)

265 Then, on pages 165 through 167 of Intermediate Financial Management, the
266 authors provide an example of the application of the NCDCF, assuming a normal
267 growth rate of 8% which they identify as "the assumed average for the economy."
268 Thus, assuming that this same information appears in Fundamentals of Financial
269 Management, from which Mr. Gorman quoted, although he relied upon the
270 Brigham / Houston quotation to support the use of the growth in nominal GDP for

271 use in a NCD CF model, Mr. Gorman has ignored the authors recommendation of
272 an assumed 8% normal growth rate to be used in the NCD CF.

273 **Q12. At line 357 on page 17 through line 362 on page 18 of IWC Exhibit 4.0, Mr.**
274 **Gorman cites pages 64-66 of Morningstar, Inc.’s Stocks, Bonds, Bills and**
275 **Inflation – Market Results for 1926-2007 – Valuation Edition (“SBBI”) to**
276 **“support the use of a GDP growth rate as a maximum sustainable growth**
277 **rate for use in a DCF model.” Please comment.**

278 **A.** The study reported in SBBI relates growth in the earnings and dividends of the
279 stock market as a whole to GDP growth from 1926-2006. Since the stock market
280 as a whole, whether measured by the NYSE or S&P 500, is a broad based
281 representation of all the common stocks traded in the U.S., it stands to reason
282 that the earnings and dividends of the market as a whole would track GDP
283 growth. However, neither SBBI nor Mr. Gorman have provided any empirical
284 support that the earnings and dividends of utility companies, in general, or water
285 companies, in particular, or indeed any specific company or industry, track GDP
286 growth.

287 **Q13. At lines 363 and 364 of IWC Exhibit 4.0, Mr. Gorman states that you testify**
288 **that “investors would blindly rely on three- to five-year analyst growth**
289 **projections in a constant growth DCF model.” Please comment.**

290 **A.** Once again, Mr. Gorman has mischaracterized my rebuttal testimony which
291 discussed the wealth of empirical and academic evidence of which investors are
292 aware which supports the superiority of analyst’s forecasts of EPS as measures
293 of investor expectations. (See pages 30 through 32 of IAWC Exhibit 12.20.)

294 **Q14. On page 20 of IAWC Exhibit 4.0, at lines 405 – 420, Mr. Gorman continues to**
295 **take exception to your conclusion that IAWC’s increased risk due to its**
296 **smaller size relative to the proxy companies needs to be reflected in any**
297 **common equity cost rate derived from the market data of the proxy**
298 **companies utilized by all witnesses in this proceeding. Please comment.**

299 **A.** IAWC Exhibit 12.10, my rebuttal testimony, at pages 38 through 42 contains a
300 comprehensive discussion of the fact that while IAWC’s affiliation with its large
301 parent company results in a mitigation of the risk of its small relative size, due to
302 the reduced costs of the management services provided by AWW as well as
303 lower fixed capital cost rates, which are passed directly on to ratepayers.
304 However, despite the reduction in rates due to its affiliation with AWW, Mr.
305 Gorman has ignored the basic financial principle discussed on pages 39 and 40
306 of IAWC Exhibit 12.10, that it is the use of the funds invested, and not the source
307 of the funds, which gives rise to risk and the risk-appropriate rate of return. As
308 discussed in IAWC Exhibit 12.10, it is the rate base of IAWC, and IAWC alone, to
309 which the overall rate of return set in this proceeding will be applied. Therefore,
310 IAWC should be evaluated as a stand alone utility. Consequently, the
311 Commission should focus on the risk and return on common equity investment in
312 IAWC’s jurisdictional rate base because it is IAWC’s rates which will be set in this
313 proceeding and it is IAWC’s rate base which serves its ratepayers and to which
314 the authorized rate of return set in this proceeding will be applied. Furthermore,
315 the risk of the common equity investment in IAWC’s rate base is independent of
316 the source of that equity capital. IAWC Exhibit 12.10, on page 40, provides

317 academic support for the basic financial principle that it is the use of the funds
318 invested which gives rise to the risk of an investment, not the source of those
319 funds. For example, Richard A. Brealey and Stewart C. Myers who state on
320 pages 173 and 198 of Principles of Corporate Finance:

321 *The true cost of capital depends on the use to which the capital is put.*

322 * * *

323 ***Each project should be evaluated at its own opportunity cost of***
324 ***capital; the true cost of capital depends on the use to which the***
325 ***capital is put.*** (italics and bold in original)

326 Hence, as discussed in IAWC Exhibit 12.10, on page 41, the common equity
327 investment in IAWC must be viewed without regard to the source of capital, i.e.,
328 AWWC and AWCC, rather the risk to which such capital is put, i.e., invested in
329 IAWC. Consequently, the specific risk of investment in IAWC, including its small
330 size and greater financial risk, relative to the proxy water and utility companies
331 utilized to estimate the cost rate of common equity capital by all witnesses in this
332 proceeding, is most important in order to establish an appropriate common equity
333 cost rate.

334 **Q15. Please respond to Mr. Janous's criticism of your opinion that his**
335 **conclusions of the riskiness of IAWC relative to his proxy groups are no**
336 **longer valid.**

337 **A.** He bases his disagreement exclusively upon S&P's business risk profiles for
338 AWWC, as a proxy for IAWC, and his proxy companies and does not even
339 consider S&P's assigned financial risk profile and the more comprehensive credit
340 rating. Even based upon the current, February 7, 2008 (Schedule 12.33) S&P

341 Issuer Ranking: U.S. Investor-Owned Water Utilities, Strongest to Weakest and
342 Issuer Ranking: U.S. Natural Gas Distributors and Integrated Gas Companies,
343 Strongest to Weakest, the relationship of the credit ratings, business risk profiles
344 and financial risk profiles shown on Schedule 12.25, page 1 for Mr. Janous's two
345 proxy groups, as well as AWW and AWWC, remains the same. Page 1 of
346 Schedule 12.25 indicates that both of his proxy groups have been assigned an
347 average credit rating of "A," an average business risk profile of "Excellent" and an
348 average financial risk profile of "Intermediate" by S&P, while AWW and AWWC
349 have been assigned credit ratings of "A-," business risk profiles of "Excellent" and
350 financial risk profiles of "Aggressive," indicating similar business risk relative to
351 Mr. Janous's proxy groups but greater financial and overall risk due to AWW's
352 and AWWC's more risky "Aggressive" financial risk profile and more risky "A-"
353 credit rating. Consequently, Mr. Janous's disagreement with my rebuttal
354 testimony is based upon an incomplete review of AWW's and AWWC's, and
355 hence IAWC's, total credit profile which includes S&P's assigned credit ratings,
356 as well as business and financial risk profiles.

357 **Q16. At lines 12 – 22 on page 6 of IWC Exhibit 6.0, Mr. Janous claims that you**
358 **were provided “empirical data supporting utility company growth rates in**
359 **line with GDP” in response to IWC-IAWC 1.91 and that it is also “contained**
360 **in the Ibbotson 2007 Yearbook-Valuation Edition.” Please comment.**

361 **A.** My review of the information provided in response to IWC-IAWC 1.91 found
362 nothing to support Mr. Janous's assumption that the EPS of utility companies can
363 be expected to grow at the GDP growth rate. The attachment provided in

364 response to IWC-IAWC 1.91 is merely a chart of energy usage, electricity usage
365 and real GDP over an approximately 20-year period. Given that our economy is
366 so energy dependent, it is not surprising that U.S. economic growth and
367 energy/electricity growth are similar. Likewise, the article provided in response to
368 IWC-IAWC 1.32 provides no insight whatsoever into the relationship between
369 nominal GDP growth and the growth in EPS for utility and / or water companies.
370 In addition, previously in this rebuttal testimony, I have discussed the SBBI study
371 of the growth in earnings and dividends relative to the growth in GDP, concluding
372 that since the stock market as a whole, whether measured by the NYSE or S&P
373 500 is a broad based representation of all the common stocks traded in the U.S.,
374 it stands to reason that the earnings and dividends of the market as a whole
375 would track GDP growth. But such a tracking does not provide empirical support
376 for the contention that the rates of growth in earnings and dividends of utility
377 companies in general, or water companies in particular, track GDP growth rates.

378 **Q17. At line 23 on page 6 through line 2 on page 7, Mr. Janous's repeats Mr.**
379 **Gorman's contention that current projected growth rates in EPS for water**
380 **companies in excess of GDP growth are not surprising given the current**
381 **need for major capital improvement projects and that this need is**
382 **temporary. Please comment.**

383 **A.** I have previously discussed this issue, relative to Mr. Gorman's comments and
384 explained why the need for major capital improvement projects on the part of
385 water utilities is neither current nor temporary, a fact as recognized by NARUC,

386 Value Line and Moody's. My response to Mr. Gorman on this issue applies
387 equally to the testimony of Mr. Janous.

388 **V. RESPONSE TO CUB WITNESS THOMAS**

389 **Q18. Has Mr. Thomas provided persuasive evidence that the Commission**
390 **should “reconsider” its traditional cost of common equity analysis?**

391 **A.** No. Mr. Thomas has not provided persuasive evidence that the Commission
392 should “reconsider” its traditional cost of common equity analysis, i.e., that
393 proposed by Staff in its direct testimony, ICC Staff Exhibit 4.0 and as applied by
394 me in IAWC Exhibit 12.00. He has provided no proof that the forecast error of
395 the CAPM is any greater than the forecast error of the DCF. And he has provided
396 no evidence that the use of adjusted betas in a CAPM analysis will ameliorate
397 the forecast error of the CAPM.

398 **Q19. Mr. Thomas still maintains that the single article by Gambola and Kahl**
399 **(1990) provides comprehensive and conclusive support for the use of**
400 **unadjusted betas for utility companies. Please comment.**

401 **A.** There is a significant body of research that indicates that betas have an inherent
402 tendency to revert toward their mean value or the market beta of one (see
403 Schedule 12.38, an excerpt from SBBI relative to Beta Adjustment
404 Methodologies). As stated on page 2 of Schedule 8 “[t]his means that high
405 historical betas (those in excess of one) tend to overestimate betas in future time
406 periods, and low historical betas (those under one) tend to underestimate betas
407 in future time periods.” And as also stated on page 2 of Schedule 12.38, “for cost
408 of capital projections, we are seeking a forward-looking or prospective beta”, it is
409 necessary, therefore, “to adjust betas from historical to prospective or forward-

410 looking.” As noted in SBBI, Marshall E. Blume was one of the first to study
411 whether “historical betas are reliable estimates of future systematic risk.” O. A.
412 Vasicek also studied historical betas and developed another beta adjustment
413 technique. Moreover, the point is that adjusted betas are recommended by the
414 majority of academic research, academic textbooks, and SBBI. In addition,
415 adjusted betas are widely available to investors from such sources as Value Line
416 Investment Survey and Merrill Lynch. As rate of return analysts, Mr. Thomas and
417 myself, must try to emulate investor behavior and utilize what investors rely upon
418 in making their investment decisions which, in my opinion are adjusted betas.

419 **Q20. Mr. Thomas cites a recent Ameren case before the Commission to refute**
420 **your size adjustment based upon estimated market capitalization. Please**
421 **comment.**

422 **A.** Mr. Thomas’ characterization of my testimony is that I assume “that the
423 Commission’s task is to grant utilities a return based upon their market value
424 capitalization.” Mr. Thomas is mistaken. It is clear from pages 2 and 3 of IAWC
425 Exhibit 12.00, that my recommended common equity cost rate is to be applied to
426 the book value common equity financed portion of IAWC’s jurisdictional rate base
427 because my recommended common equity rate is applicable to the IAWC
428 witness Jenkins recommended common equity ratio of 43.77% (see IAWC
429 Exhibit No. 2.22) which is based upon a book value capital structure. Moreover,
430 in the citation, where the Commission states that “[m]arket value is not utilized in
431 this calculation because it typically includes appreciated value (as reflected in its
432 stock price) above the Utilities’ actual capital investments” is precisely the point.

433 The calculation to which the Commission refers is the calculation of the
434 ratemaking capital structure which is based upon book values and not market
435 values. However, the Commission notes that the stock price reflects appreciated
436 value or market value. Since size is a risk factor which is taken into account by
437 investors in making their pricing decisions and since investors pay market prices
438 for common shares, relative size must be based upon the relative market values
439 between two different investments, all else equal, as discussed in IAWC Exhibit
440 12.00 at pages 13 through 16. What Mr. Thomas does not recognize is that in
441 arriving at recommended return rates on common equity, all the witnesses in this
442 proceeding have relied upon the market data of proxy companies. Therefore, it
443 is entirely appropriate and consistent with financial theory to compare the
444 estimated market capitalization of IAWC with that of the proxy companies to
445 determine whether any risk adjustment due to size is warranted.

446 **Q21. At line 355 on page 14 through line 373 on page 15 of CUB Exhibit 2.0, Mr.**
447 **Thomas disagrees that there is “any degree of circularity in using historic**
448 **internal growth rates as a measure of expected future sustainable growth.”**
449 **Please comment.**

450 **A.** Actually, Mr. Thomas’s use of historical returns in his internal growth analysis
451 exacerbates the circularity issue. Historical returns for water companies are the
452 direct result of Commission authorized ROEs. It is true, as Mr. Thomas notes on
453 lines 367 – 368, that the “Commission does not grant utilities a specific return
454 each year.” However, the returns actually achieved in each year are the product
455 of the rates set in the most recent rate proceeding, based upon the authorized

456 ROE, which then give rise to the realized ROEs in each subsequent year until a
457 new rate proceeding sets new rates and a new authorized ROE. Therefore,
458 realized ROEs in each year are indeed a function of the then current authorized
459 ROE. Since these historical realized ROEs give rise to internal growth rates,
460 such as those derived by Mr. Thomas, those historical internal growth rates are
461 inherently circular and do not obviate the circularity inherent in the sustainable
462 growth method of determining a DCF growth rate.

463 **Q22. Mr. Thomas states at lines 404 and 405 on page 16 of CUB Exhibit 2.0 that**
464 **you seem “to believe that investors somehow favor older information over**
465 **newer information.” Please comment.**

466 **A.** Mr. Thomas’s comment is inconsistent with his use of historical ROEs in his
467 internal growth analysis. By not utilizing forecasted ROEs in his internal growth
468 analysis, he is assuming that investors do not utilize forecasted information when
469 formulating their investment decisions and has ignored the ample empirical
470 evidence discussed above and in IAWC Exhibit 12.10 which supports the
471 superiority of analysts’ forecasted EPS growth projections for cost of capital
472 purposes. This is inconsistent with the prospective nature of both the cost of
473 capital and ratemaking. Moreover, analysts’ forecasted EPS growth projections
474 embody both historical earnings as well as the analysts’ assessment of future
475 earnings growth, because analysts have significant insight into the dynamics of
476 various industries and they analyze individual companies as well as companies’
477 abilities to effectively manage the effects of a changing operating and capital
478 market environment.

479 **Q23. At lines 431 and 432 on page 17 of CUB Exhibit 2.0, Mr. Thomas states that**
480 **you relied upon an analysis of returns on the S&P 500 to argue that his**
481 **recommendation is inadequate. Please comment.**

482 **A.** Mr. Thomas' assertion is incorrect. Schedule 12.21 is does not present the
483 returns on the S&P 500 but rather holding period returns on the S&P Public Utility
484 Index, which are indeed relevant to an analysis of the adequacy of Mr. Thomas
485 recommendation. As discussed in IAWC Exhibit 12.20 at lines 573 through 577
486 on page 21, based upon the historical equity risk premia in the study of the
487 holding period returns of the S&P Utility Index from 1928-2006 of 4.51% shown
488 on Schedule 12.21, Mr. Thomas's recommended common equity cost rate of
489 8.58% which is a mere 252 basis points (2.52%) above a recent yield on A rated
490 public utility bonds (see lines 566 – 568 on page 21 of IAWC Exhibit 12.20) does
491 not represent an appropriate cost of common equity for IAWC. In addition, the
492 energy companies whose authorized ROEs are shown on Schedule 12.20 as
493 well as the utility companies in the S&P Public Utility Index are among the
494 companies with which IAWC, through AWCC, must compete for financing in the
495 capital markets. Therefore, a review of the equity risk premia implicit in their
496 returns, authorized and holding period returns is indeed germane to analyzing
497 the reasonableness of a recommended common equity cost rate.

498 **Q24. Does this conclude your surrebuttal testimony?**

499 **A.** Yes, it does.

500