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STATE OF NEW HAMPSHIRE
PUBLIC UTILITIES COMMISSION

January 28, 2009 - 10:12 a.m.
Concord, New Hampshire

DAY I

RE: DG 08-009
ENERGYNORTH NATURAL GAS, INC.
d/b/a NATIONAL GRID NH:
Notice of Intent to File Rate Schedules.

NHPUC FEB04'09 PM 2:52
NHPUC FEB04'09 PM 2:52

PRESENT: Chairman Thomas B. Getz, Presiding
Commissioner Graham J. Morrison
Commissioner Clifton C. Below

Sandy Deno, Clerk

APPEARANCES: Reptg. National Grid New Hampshire:
Steven V. Camerino, Esq. (McLane, Graf...)
Thomas P. O'Neill, Esq.
Ronald Gerwatowski, Esq.

Reptg. Residential Ratepayers:
Meredith Hatfield, Esq., Consumer Advocate
Rorie Hollenberg, Esq.
Kenneth E. Traum, Asst. Consumer Advocate
Stephen Eckberg
Office of Consumer Advocate

Reptg. Pamela Locke:
Alan Linder, Esq. (N.H. Legal Assistance)
Daniel Feltes, Esq. (N.H. Legal Assistance)

Reptg. PUC Staff:
Edward N. Damon, Esq.

Court Reporter: Steven E. Patnaude, LCR No. 52

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P R O C E E D I N G S

1
2 CHAIRMAN GETZ: Okay. Good morning,
3 everyone we'll open the hearing in docket DG 08-009. On
4 February 25, 2008, National Grid filed a request to
5 implement new permanent natural gas delivery service rates
6 in New Hampshire. On March 14, 2008, Commission issued an
7 order suspending the tariffs included in the Company's
8 delivery rate filing and scheduling a prehearing
9 conference. Subsequently, the Commission issued Order
10 Number 24,888 approving temporary rates, and a revised
11 procedural schedule for the consideration of permanent
12 rates was issued on September 9th, and setting the
13 hearings for this week. And, we have a Partial Settlement
14 Agreement for consideration that was filed on January 23.

15 Can we take appearances please.

16 MR. CAMERINO: Good morning,
17 Commissioners. Steven Camerino, from McLane, Graf,
18 Raulerson & Middleton, on behalf of National Grid-NH.
19 And, also with me at counsel table today is Ronald
20 Gerwatowski, Deputy General Counsel for National Grid, and
21 Thomas O'Neill, Senior Counsel.

22 CMSR. BELOW: Good morning.

23 CHAIRMAN GETZ: Good morning.

24 MR. FELTES: Good morning, Mr. Chairman,

1 members of the Commission. My name is Dan Feltes, Staff
2 Attorney with New Hampshire Legal Assistance, helping to
3 represent Pamela Locke, a low income residential ratepayer
4 of National Grid. With me at counsel table is Alan
5 Linder. Thank you.

6 CHAIRMAN GETZ: Good morning.

7 CMSR. BELOW: Good morning.

8 MS. HATFIELD: Good morning,
9 Commissioners. Meredith Hatfield, for the Office of
10 Consumer Advocate, on behalf of residential ratepayers.
11 And, with me is Ken Traum, Rorie Hollenberg, and Steve
12 Eckberg, on behalf of the Office.

13 CHAIRMAN GETZ: Good morning.

14 CMSR. BELOW: Good morning.

15 MR. DAMON: Good morning, Commissioners.
16 Edward Damon, for the Staff. And, with me this morning
17 are Stephen Frink and Dr. Pradip Chattopadhyay.

18 CHAIRMAN GETZ: Good morning.

19 CMSR. BELOW: Good morning.

20 CHAIRMAN GETZ: Well, how do you propose
21 to proceed with the consideration of the Partial
22 Settlement?

23 MR. CAMERINO: We are going to put a
24 panel on consisting of Ann Leary and John O'Shaughnessy,

1 from National Grid, and Steve Frink, from the Commission
2 Staff. I also wanted to just mark for identification all
3 the testimony in the case and the Settlement Agreement up
4 front. So, maybe while they're getting themselves settled
5 on the stand, we can go through that housekeeping detail.

6 CHAIRMAN GETZ: Everyone set with that
7 procedure? Then, please go ahead, Mr. Camerino.

8 MR. CAMERINO: Okay. And, I've prepared
9 a draft Exhibit List, which I can give to the Commission
10 as well. And, if all goes well, we'll actually follow
11 this numbering. And, the parties already have this, and
12 the Clerk has one. And, what we plan to do is, rather
13 than recopying all of the testimonies and supporting
14 schedules that have been filed, particularly because this
15 is a largely settled case, with the exception of the
16 documents that I'm going to identify, we would ask the
17 Commission simply move the materials from its -- I'll call
18 it the "administrative file" into the record for the case.

19 For those documents that relate to the
20 disputed part of the case and the Settlement Agreement,
21 we'll actually give the Clerk a physical copy, so that the
22 record is more definitive in that regard.

23 So, I'll just read through the list and
24 I'll identify those things where I believe we're going to

1 be filing a physical copy and I'll give those to the
2 Clerk. We're going to begin with Exhibit 6. My
3 understanding is Exhibits 1 through 5 were marked in the
4 temporary rate phase of this proceeding. Exhibit 6 is the
5 February 25, 2008 Direct Testimony of Nickolas
6 Stavropoulos. I will be providing a copy of that to the
7 Clerk. That actually doesn't contain anything regarding
8 return on equity, but, because Mr. Stavropoulos will be
9 here tomorrow, I thought that ought to be physically
10 provided. Exhibit 7, February 25, 2008 Direct Testimony
11 of John O'Shaughnessy; Exhibit 8, February 25, 2008 Direct
12 Testimony of Ann Leary; Exhibit 9, February 25, 2008
13 Direct Testimony of Paul Moul, I'll provide a physical
14 copy of that; Exhibit 10, February 25, 2008 Direct
15 Testimony of Paul Normand; Exhibit 11, February 25, 2008
16 Direct Testimony of Gary Goble regarding rate design;
17 Exhibit 12, February 25, 2008 Direct Testimony of Gary
18 Goble regarding Lead/Lag; Exhibit 13, February 25, 2008
19 Direct Testimony of Susan Fleck; Exhibit 14, February 25,
20 2008 Direct Testimony of Gary Bennett.

21 Exhibit 15, Cost of Service/Rate of
22 Return exhibits, which are EN 3-1, 3-2, 3-2A, 3-3, 3-4,
23 3-5, 3-6, and 3-7. Exhibit 16 are the Cost of Service
24 exhibits and Rate Base. That's EN 2-4 and 2-4-1. Exhibit

1 17 is the Cost of Service exhibits and O&M. That's EN
2 2-2-2. Exhibit 18, Cost of Service exhibits, EN 2-1, 2-2,
3 2-2-1, 2-2-1A, 2-2-3, 2-2-4, 2-2-5, and 2-3. Exhibit 19
4 are the tariff pages for permanent rates, both clean and
5 redlined that were originally proposed. Exhibit 20 is the
6 Report of Proposed Rate Changes, based on the original
7 permanent rate proposal. Exhibit 21 would be the Puc
8 1604.01 filing requirements, which were Volumes 2A, 2B and
9 3 of the Company's February 25, 2008 filing. Exhibit 22
10 is the April 23, 2008 Supplemental Direct Testimony of
11 Gary Goble. Exhibit 23 are Mr. Goble's workpapers in
12 support of Attachments GLG-LL-2 and GLG-LL-3. Exhibit 24
13 are revised exhibits, EN 2-1; EN 2-2-1; EN 2-2-1A;
14 EN 2-2-5, Pages 1, 2 and 3; EN 2-4, Page 1; and EN -- I'm
15 sorry, Revised 2-4-1, Pages 1 and 3.

16 Next we move to the Staff and Intervenor
17 testimony. Exhibit 25 is the October 31, 2008 Testimony
18 of Stephen Frink. Exhibit 26 is the October 31, 2008
19 Testimony of George McCluskey. Exhibit 27 is the
20 October 31, 2008 Testimony of Pradip Chattopadhyay.
21 Exhibit 28 is the October 31, 2008 Testimony of James
22 Cunningham. Exhibit 29 will be Revised Testimony from Ken
23 Traum filed with the Commission on January 23, 2009, and
24 Ms. Hatfield will provide a hard copy of that to the

1 Clerk. Exhibit 30 is the October 31, 2008 Testimony of
2 Lee Smith and Arthur Freitas. Exhibit 31, October 31,
3 2008 Testimony of Roger Colton. Exhibit 32, October 31,
4 2008 testimony of Pamela Locke.

5 Exhibit 33 is the December 15, 2008
6 Rebuttal Testimony of Paul Moul, which we'll provide a
7 hard copy of. Exhibit 34, December 15, 2008 testimony of
8 Paul Normand. Exhibit 35, December 15, 2008 Rebuttal
9 Testimony of Gary Bennett. Exhibit 36, December 15, 2008
10 Rebuttal Testimony of John O'Shaughnessy. Exhibit 37,
11 December 15, 2008, Joint Rebuttal Testimony of John
12 O'Shaughnessy and William Richer. Exhibit 38,
13 December 15, 2008 Rebuttal Testimony of Gary Goble.
14 Exhibit 39, December 15, 2008 Rebuttal Testimony of Ann
15 Leary. Exhibit 40, December 15, 2008 Rebuttal Testimony
16 of Nickolas Stavropoulos. We'll be providing a hard copy
17 of that. And, Exhibit 41 is the January 23, 2009 Partial
18 Settlement Agreement.

19 I appreciate your patience in allowing
20 me to read that into the record, and would hope that you
21 appreciate the amount of effort that went into resolving
22 this case through a settlement, rather than litigation.

23 CHAIRMAN GETZ: Okay. The exhibits will
24 be marked for identification as described by Mr. Camerino.

1 (The documents, as described, were
2 herewith marked as **Exhibit 6** through
3 **Exhibit 41**, respectively, for
4 identification.)

5 CHAIRMAN GETZ: Let me just note for the
6 record also that Commissioner Morrison had an automobile
7 mishap on the way in this morning, and he'll be
8 participating by phone. It's a mishap with the
9 automobile, and not with Commissioner Morrison.

10 CMSR. MORRISON: Thank you.

11 MR. CAMERINO: And, I'm just going to
12 provide those copies to the Clerk now, if I can.

13 (Whereupon **Ann Leary, John**
14 **O'Shaughnessy**, and **Stephen Frink** were
15 duly sworn and cautioned by the Court
16 Reporter.)

17 MR. CAMERINO: And, Mr. Linder indicated
18 to me that there was no testimony from Ms. Locke. And,
19 so, we'll take a look at that. And, that exhibit number
20 probably should be left blank. I'm thinking that he
21 probably knows what he filed better than I do. That would
22 be number 32.

23 MR. LINDER: Mr. Chairman, we did submit
24 testimony of our expert witness, Roger Colton, which is

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 number 31.

2 MR. CAMERINO: Okay.

3 CHAIRMAN GETZ: And, it just indicates
4 that it was "on behalf of Ms. Locke".

5 MR. LINDER: Yes. Thank you.

6 MR. CAMERINO: So, we have a number
7 available.

8 CHAIRMAN GETZ: Well, we'll just leave
9 Exhibit 32 blank then. And, please go ahead, Mr.
10 Camerino.

11 MR. CAMERINO: Thank you.

12 **ANN LEARY, SWORN**

13 **JOHN O'SHAUGHNESSY, SWORN**

14 **STEPHEN FRINK, SWORN**

15 **DIRECT EXAMINATION**

16 BY MR. CAMERINO:

17 Q. I'm going to start with you, Ms. Leary. Would you just
18 state your name and business address for the record
19 please.

20 A. (Leary) Yes. My name is Ann Leary. I work for
21 National Grid, at 201 Jones Road, Waltham, Mass. 02451.

22 Q. And, what is your position with National Grid and what
23 are your responsibilities in that regard?

24 A. (Leary) I am the Manager of Pricing for the Gas

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Division in New England. And, I am responsible for
2 various regulatory filings both in Massachusetts and
3 New Hampshire.

4 Q. And, were you involved in the negotiation of and
5 preparation of the Settlement Agreement that's been
6 filed in this proceeding?

7 A. (Leary) Yes, I was.

8 Q. And, you're familiar with its terms?

9 A. (Leary) Yes, I am.

10 Q. Okay. Mr. O'Shaughnessy, let me ask you the same
11 questions. What's your name and business address?

12 A. (O'Shaughnessy) My name is John O'Shaughnessy. I work
13 for National Grid in Brooklyn. And, the business
14 address is One Metrotech Center, Brooklyn, New York
15 11201. I'm the Director of Gas Revenue Requirements.
16 And, in that capacity, I was responsible for preparing
17 various exhibits and providing accounting expertise of
18 the cost of service and revenue requirement in this
19 case.

20 Q. And, are you familiar with the Settlement Agreement
21 that was filed in this case?

22 A. (O'Shaughnessy) Yes.

23 Q. And, were you involved with its negotiation and
24 preparation?

{DG 08-009} [Day I] {01-28-09}

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 A. (O'Shaughnessy) Yes.

2 MR. CAMERINO: Okay. And, with
3 Mr. Damon's permission, I'm going to ask the same
4 questions of Mr. Frink.

5 BY MR. CAMERINO:

6 Q. Would you give your name and business address for the
7 record.

8 A. (Frink) Stephen Frink. And, my business is the New
9 Hampshire Commission, at 21 South Fruit Street.

10 Q. And, what is your position with the Commission and your
11 responsibilities?

12 A. (Frink) I'm the Assistant Director of the Gas and Water
13 Division, and primarily oversee the natural gas
14 industry.

15 Q. And, I take it you're familiar with the Settlement
16 Agreement that was filed in this proceeding?

17 A. (Frink) Yes, I am.

18 Q. And, you were closely involved with its negotiation and
19 preparation?

20 A. (Frink) Yes, I was.

21 MR. CAMERINO: Okay. Thank you. My
22 questions are going to be for Ms. Leary. And, then, if
23 the other witnesses need to provide clarification, we'll
24 proceed to that.

{DG 08-009} [Day I] {01-28-09}

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 BY MR. CAMERINO:

2 Q. Ms. Leary, would you summarize the Settlement
3 Agreement. And, let's start with the "Revenue
4 Requirement" portion of the Agreement.

5 A. (Leary) Well, to begin with, the Settlement does not
6 include a revenue requirement, because the ROE has yet
7 to be determined. This will be addressed in the
8 litigated phase of the proceeding over the next few
9 days.

10 Q. The Settlement discusses both delivery rates and supply
11 rates. Can you explain why it's broken down in that
12 way and how the Settlement is presented for the
13 Commission's review in that regard?

14 A. (Leary) Yes. Actually, to take a step back first, the
15 Settlement is basically -- is based on establishing an
16 overall revenue requirement that is just and
17 reasonable, and it's based on the Company's entire rate
18 base and the operating expenses. What we then do is we
19 need to break out that, those components, into the
20 delivery portion and the gas cost portion. That is
21 because some of our traditionally base rate items are
22 now collected, due to unbundling, through our cost of
23 gas factors. The delivery rate revenues will be
24 converted into the base rates in accordance with our

{DG 08-009} [Day I] {01-28-09}

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 rate design principles, and you'll find those in
2 Section II.F of our Settlement Agreement. And, the
3 cost of gas portion of the revenue requirement will
4 form the basis for our indirect gas costs that are
5 recovered through the cost of gas. Those basically
6 will consist of our production and storage costs that
7 are fixed, our miscellaneous overhead, our gas cost
8 related bad debts, and our gas cost related working
9 capital.

10 Q. If the Agreement doesn't include a revenue requirement
11 or a return on equity, what is there in the Agreement
12 that would enable the Commission to actually come up
13 with a revenue requirement at the end of this case?

14 A. (Leary) We've actually attached two appendices,
15 Appendix 1 and Appendix 2. And, in there, we have
16 disclosed all the pieces of the revenue requirement
17 that have been agreed upon, basically, the operating
18 revenues, the total rate base. Not only do we show
19 that for the total company, we also break it up into
20 the components, both the delivery components and the
21 gas cost components. And, finally, in those two
22 appendices, and let me just take one step back,
23 Appendix 1 was an example of what the revenue
24 requirement would look like at the Staff's recommended

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 level of ROE, which is 9.01 percent. The Appendix 2 is
2 the revenue requirement based on the Company's revised
3 recommendation for an ROE of 12.25 percent. But, in
4 both those calculations, we do include a section that
5 shows the Commission that, once the decision has been
6 made on the final ROE, all we simply need to do is to
7 take that ROE, put it into the calculation, and a
8 revenue requirement for all the various components will
9 be determined.

10 Q. And, has that spreadsheet, that's shown in hard copy
11 form in the Settlement, has that been provided in
12 electronic format to the Commission Staff and parties
13 in this case so that they could perform such an
14 operation?

15 A. (Leary) Yes, it has.

16 Q. Okay. Now, return on equity is just one part of the
17 overall rate of return. Would you describe the other
18 elements of rate of return in this case and how they
19 were established?

20 A. (Leary) Yes. The first thing we did is we had assumed
21 a 50/50 capital structure, and that was in accordance
22 with the KeySpan/National Grid merger, the DG 06-107
23 proceeding. We also assumed a 7.02 percent cost of
24 debt. And, that was based on the resolution in the

{DG 08-009} [Day I] {01-28-09}

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 docket DG 06-122. And, finally, the last piece will be
2 the actual return on equity that will be litigated over
3 the next few days and determined by the Commission.

4 Q. Where in the Agreement would the Commission find the
5 other ratemaking components, such as rate base or
6 expenses and the like?

7 A. (Leary) Those will be identified in Appendix 1 and 2.

8 Q. And, are there -- sorry, go ahead.

9 A. (Leary) Oh, excuse me. And, they're also identified in
10 the actual Settlement. Under Section II, B and C, we
11 have identified the delivery rate base components.
12 And, again, this is delivery, not total company. And,
13 that component would be \$140,239,771. We also have,
14 you know, identified the delivery test year firm
15 revenues, which are \$42,224,238. We've also identified
16 the delivery operating income net of taxes, which will
17 be \$9,702,677. And, finally, we've identified and
18 agreed upon the tax factor that we'll be using, which
19 will be 1.6814.

20 Q. And, what about with regard to the indirect gas cost
21 portion?

22 A. (Leary) Yes. And, in terms of the indirect gas cost
23 portion, for both the production and storage cost and
24 the supply-related working capital, to perform those

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 actual calculations we will also need the approved rate
2 of -- the ROE calculation. So, again, we identified
3 those components in Appendix 1 and Appendix 2. Once
4 the final ROE is identified, we'll be able to calculate
5 out very simply those components.

6 For the allowance of bad debt on the
7 commodity side, the gas cost related portion, we've
8 kind of resolved a pending dispute based on a four year
9 phase-in that we agreed upon for the bad debt
10 percentage for the gas cost related bad debt. And,
11 this will be in recognition of, you know, some of our
12 higher operating expenses that are going to required of
13 us to achieve a lower level of uncollectibles. So,
14 we're anticipating that the first few years that we try
15 to, you know, increase our uncollectible activity, our
16 bad debt levels may go up. But, eventually, that
17 number will begin to taper down.

18 Q. There's a separate section that specifies the
19 resolution of the issues on depreciation. Would you
20 just summarize that.

21 A. (Leary) Yes. Pretty much the depreciation rates were
22 accepted as adjusted, as proposed by the Company in its
23 initial filing, with two adjustments proposed by Staff.
24 The depreciation study also filed in this case showed

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 an over depreciation of its assets. And, we have
2 agreed that the variance in this will be flowed back to
3 customers over a 13.1 year period, rather than the 26
4 years that originally was proposed by the Company. The
5 Company has also agreed to make several changes in its
6 record keeping for the depreciation purposes.

7 Q. The Settlement also addressed the filing of a lead/lag
8 study. Could you indicate what that resolution was?

9 A. (Leary) Yes. Lead/lag only as it relates to the gas
10 cost working capital component, not lead/lag on the
11 O&M. And, what we agreed is that we will update this
12 study every three years for the purposes of adjusting
13 the supply-related working capital.

14 Q. There were a number of rate design principles that are
15 articulated, and then that will be implemented once the
16 Commission determines the actual revenue requirement.
17 Could you summarize those.

18 A. (Leary) Yes. First of all, the first rate design
19 principle that we were looking for was we wanted to
20 closely more approximate the marginal cost to serve the
21 customers. However, with consideration for bill
22 impacts for the various rate classes, we also agreed
23 that we wouldn't be able to achieve that, and that we
24 would have to cap the revenue --

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 (Brief interruption.)

2 CHAIRMAN GETZ: Continue, Mr. Camerino,
3 please.

4 MR. CAMERINO: Okay.

5 BY MR. CAMERINO:

6 Q. So, Ms. Leary, you had indicated that rate design would
7 move more closely to marginal cost, and then proceed
8 from there.

9 A. (Leary) Yes. The class revenue targets, however, will
10 be capped at 112 and a half percent of the overall
11 average delivery rate increase. We've also agreed that
12 the volumetric charges, that's the head block and the
13 tail block rates for the residential customers, we will
14 actually reduce that variance between the head block
15 and tail block by about approximately a half.
16 Basically, we were looking -- the reason we were doing
17 this is because we were concerned with the intraclass
18 bill impacts for, let's say, a residential heating
19 customer, and we wanted to more approximate the
20 increase to all residential customers within a rate
21 class, and not have disparities based on customer's
22 usage. So, a larger customer will get a smaller
23 increase, to avoid a larger customer getting a smaller
24 increase, a smaller customer within that rate class

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1 getting a bigger increase. For all the other rate
2 classes, the charges will be adjusted proportionately
3 to achieve the class revenue targets, except for the
4 non-heating residential class, which we will now
5 replace the block structure with a flat volumetric
6 rate.

7 We also agreed that the customer charges
8 for all the rate classes will not exceed a 45 percent
9 increase. And, no customer charge will exceed the
10 customer's cost to serve. And, finally, just like we
11 had for Appendix 1 and Appendix 2, in Appendix 4 and
12 Appendix 5, we actually show the summary of the
13 proposed rate changes, and we also show the class
14 average.

15 (Brief interruption.)

16 MR. CAMERINO: Would you like her to
17 keep going?

18 CHAIRMAN GETZ: Yes. Well, --

19 **BY THE WITNESS:**

20 A. (Leary) The class average bill increase at Company's --

21 (Brief interruption.)

22 CHAIRMAN GETZ: Yes, we'll just have to
23 wait a second. Well, off the record.

24 (Brief off-the-record discussion)

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1 ensued.)

2 CHAIRMAN GETZ: Let's take a very short
3 recess.

4 (Whereupon a recess was taken at 10:37
5 a.m. and the hearing reconvened at 10:44
6 a.m.)

7 CHAIRMAN GETZ: Mr. Camerino.

8 MR. CAMERINO: Thank you.

9 BY MR. CAMERINO:

10 Q. Ms. Leary, I'm not quite sure where we went off the
11 record. So, I think what I'm going to do is ask you if
12 you would begin with bill impacts for customers, and
13 give the Commission a sense of what those impacts are
14 at the different ROE levels that the parties have taken
15 positions on.

16 A. (Leary) Okay. Well, as I said, in Appendix 4, we had
17 included the proposed rates and the class average bill
18 impacts based on the 9.01 percent ROE from the Staff.
19 Appendix 5 is the identical schedules based on the
20 12.25 percent ROE that was recommended by the Company.
21 And, just to give you an overall range, the first thing
22 I looked at is the increase based on the distribution
23 portion only on the customer's bill. So, again, this
24 is not the total bill impact. This is just for the

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1 distribution component. And, the range -- And, I
2 looked at a residential heating customer. And, at the
3 9.01 percent ROE, a typical residential heating
4 customer would get, on the distribution only, about a
5 7 percent increase, versus a almost 16 percent increase
6 at the 12.25 percent ROE. And, as a rule of thumb, to
7 judge these two ranges, just to let you know, every
8 half a percent change in the ROE equates to
9 approximately a 1.4 percent change on the percent
10 increase in the distribution rate only.

11 Now, I just want to give you a little
12 sense of what this means in terms of dollars for
13 residential heating customers. And, for a typical
14 residential heating customer, at the 9.01 percent ROE,
15 they would experience on average about a \$2.87 monthly
16 increase, which equates to about \$34.40 on an annual
17 basis. At the 12.25 percent ROE level, a typical
18 average residential heating customer would see about a
19 \$5.43 monthly increase, which equates to about \$65 on
20 an annual basis. And, again, as a rule of thumb, for
21 every half a percent change in the ROE will result in
22 about a 40 cents per month charge variance for a
23 residential heating customer.

24 I also wanted to point out to everybody

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1 right now that, even at these two ranges, the 9.01
2 percent and the 12.25 percent, these are slightly lower
3 than the temporary rates that we currently have in
4 effect. Because, when we had put the temporary rates
5 in effect back in August, what we had done was we had
6 taken the whole \$6.6 million rate increase that was
7 approved on a temporary basis, and we had put that all
8 to the distribution rate component. So, that was about
9 a 16 percent increase. So, in total, on a class
10 average, even at these two ranges, on a class average,
11 there should be no rate increases. Because the actual
12 bill -- the rate design changed slightly, there's no
13 guarantee that no individual customer would not get a
14 rate increase on either scenario because of the way
15 we've designed these rates a little bit differently.

16 Finally, as I said, I was just talking
17 on distribution rates. If I then look at the total
18 bill increases, you know, since the distribution rate
19 only represents about 20 to 25 percent of the
20 customer's bill, the total bill increase will be
21 significantly less. So, at the 9.01 percent ROE level,
22 a typical residential heating customer would see about
23 a 2.6 percent increase, and at the 12 percent ROE level
24 would equate to about almost a 5 percent increase in

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1 their total bill. And, on a total bill basis, every
2 half a percent change in the ROE will result in about
3 three-tenths of a percent change in the total bill
4 impact.

5 Q. Okay. The Settlement Agreement also addresses a number
6 of low income issues. Would you just summarize those?

7 A. (Leary) Yes. The parties have agreed that they will
8 meet to discuss whether or not we want to have a
9 further increase in the low income discount. The
10 parties have also agreed to meet to discuss whether or
11 not there can be some improvement to the outreach
12 efforts to determine whether there are additional
13 customers who may qualify for the low income rate, but
14 are currently not on the rate. And, finally, the
15 Company will meet with Ms. Locke's counsel, the NHLA,
16 to discuss its plans for enhanced collection efforts.

17 Q. Near the end of the Settlement Agreement there are a
18 number of very specific tariff changes that are
19 discussed. Would you just briefly summarize those.

20 A. (Leary) Yes. The first change was the main extension
21 policy. The Company and the parties have agreed that
22 we're going to eliminate the provision for the 80 feet
23 or free -- 80 feet or less no charge to customers, by
24 deleting Section 7(B) of NHPUC Number 5, and amending

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1 Section 7(C) so that it applies to all customers.
2 Therefore, we will no longer be giving the 80 feet free
3 to residential customers. In all other aspects, the
4 main extension policy shall remain unchanged. We've
5 also included in Appendix 6 a revised tariff language
6 to reflect these changes.

7 Another change that we made is we've
8 agreed that we're going to combine our G-63 and G-54
9 rate classes into one single rate class. This is
10 basically because right now we only have one customer
11 on our G-54 rate. And, it's inappropriate to have a
12 rate classification with just one customer on it.

13 We have also agreed that the bad debt --
14 excuse me, the bad check charge will increase from
15 \$5.00 to \$15.00. We have also agreed that, currently,
16 with our 280 day and our interruptible transportation
17 rates, there are service agreements attached to those
18 rates. They are -- They duplicate the terms and
19 conditions that we have for all customers. So, we're
20 going to eliminate, not the 280 day and the
21 interruptible rates, but we're going to eliminate those
22 service agreements, and just -- because they already
23 reference the terms and conditions for the Company.

24 Q. When you say "eliminate the service agreements", you

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1 mean eliminate them from the tariff document?

2 A. (Leary) Yes, we are. We're also going to update the
3 tariff to reflect the name "National Grid". Regarding
4 the unauthorized gas use, we are going to increase the
5 penalty for unauthorized volumes of gas taken by a
6 customer during periods of supply and capacity
7 curtailment from \$1.50 per therm to five times the
8 daily index. And, that can be seen on Page 94 of the
9 tariff.

10 And, finally, we're going to change --
11 we're going to modify the availability clause of our
12 R-1, which is our residential non-heating class. The
13 reason we have to change the clause is because the rate
14 design that we've come out with now for the R-1, by
15 going to the flat rate, is actually less than the rates
16 on our -- the rate design for our R-3. So, we're
17 concerned that customers, who may decide to put in
18 heating equipment, may not notify the Company, because
19 they will see that it's advantageous for them to remain
20 on the R-1 rate. So, we put some language in there
21 talking about "total usage" and "load factor", so that
22 the Company can now kind of try to start to police this
23 rate and make sure that customers do not try to take
24 advantage of that lower rate when they should not be on

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1 it.

2 Q. The Settlement Agreement makes some reference to two
3 other proceedings that are currently open before the
4 Commission. Can you indicate what has been agreed to
5 among the parties related to that?

6 A. (Leary) Yes. The two dockets that Mr. Camerino is
7 referring to is the DG 07-072, which dealt with the
8 interest rate on supply-related cash working capital,
9 and the Company has agreed to the outcome of that case,
10 and to use the prime rate when calculating the gas
11 supply working capital. And, also on -- the other
12 docket was DG 07-050, that dealt with the transition
13 regarding the use of billed -- going from billed
14 revenues to accrued revenues in the calculation of the
15 interest on the cost of gas -- deferred cost of gas
16 reconciliation balances. And, the Company has agreed
17 to adopt Staff's methodology. There will be separate
18 settlement agreements that will be filed in those two
19 proceedings.

20 Q. Finally, the Settlement discusses rate recoupment and
21 the handling of rate case expense. Would you summarize
22 the treatment of those items.

23 A. (Leary) Yes. As you know, there will be a difference
24 between the permanent rates and temporary rates that

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1 will need to be either recovered or returned to
2 ratepayers. What we've agreed to do is we will
3 calculate that difference back down -- back to August
4 24th of 2008. And, we will, once we identify the
5 difference between the revenues that were generated
6 based on the temporary rates, versus the revenues that
7 will be based on -- generated based on the permanent
8 rates, we will take that amount, that variance, and we
9 will refund it to all customers through our LDAC on a
10 volumetric basis over a six month period. The only
11 caveat to that is that amount, that variance, will be
12 netted against our rate case expense. So, one number
13 will be either returned or refunded or collected from
14 all ratepayers.

15 MR. CAMERINO: Thank you. That
16 completes the Company's direct examination.

17 CHAIRMAN GETZ: Mr. Feltes.

18 MR. FELTES: Thank you, Mr. Chairman.

19 **CROSS-EXAMINATION**

20 BY MR. FELTES:

21 Q. Ms. Leary, you spoke with Mr. Camerino about Appendix 4
22 and 5 to the Settlement Agreement concerning rate
23 impacts. Do you remember that conversation?

24 A. (Leary) Yes.

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1 Q. Okay. And, before the hearing, Ms. Leary, I handed you
2 two exhibits concerning rate impacts.

3 MR. FELTES: And, Mr. Chairman, members,
4 I'd like to approach to hand them out.

5 (Atty. Feltes distributing documents.)

6 BY MR. FELTES:

7 Q. Ms. Leary, do you have those two exhibits before you?

8 A. (Leary) Yes, I could.

9 Q. Have you seen them before?

10 A. (Leary) Yes, I have.

11 Q. Can you explain what those are?

12 A. (Leary) These are a bill frequency analysis for each
13 individual rate class, both showing at the winter rates
14 and the summer rates. And, basically, these show at
15 various consumption levels what the rate impacts will
16 be for residential nonheating customers, residential
17 heating customers, and all the various
18 commercial/industrial rate classes. This is -- One
19 exhibit, I'm not sure which, well, one exhibit is based
20 on the bill impacts based on an ROE using the
21 9.01 percent, the other one is based on an ROE at the
22 12.25 percent.

23 CHAIRMAN GETZ: Mr. Feltes, are these
24 included in any of the exhibits that have been previously

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1 marked? Do you want to identify these separately?

2 MR. FELTES: We'd like to identify them
3 separately.

4 CHAIRMAN GETZ: Okay. We'll mark the
5 document that's titled "Bill Impacts at an ROE of 9.01%"
6 as "Exhibit 42" for identification. And, as "Exhibit 43"
7 will be the identification for "Bill Impacts at an ROE of
8 12.25%".

9 (The documents, as described, were
10 herewith marked as **Exhibit 42** and
11 **Exhibit 43**, respectively, for
12 identification.)

13 MR. FELTES: Thank you.

14 BY MR. FELTES:

15 Q. All right. Ms. Leary, if you don't mind, can we open
16 to Page 3 of both exhibits, Exhibits 42 and 43? Are
17 you there?

18 A. (Leary) Yes, I am.

19 Q. Thank you. Am I correct that Page 3 of Exhibit 42
20 evaluates the rate impacts for R-3 residential winter
21 heating, Page 3 of 24, excuse me, of Exhibit 42,
22 evaluates the rate impacts at various usage levels for
23 the R-3 winter heating season?

24 A. (Leary) That is correct.

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1 Q. And, that is Exhibit 42. Is that an ROE of
2 9.01 percent?

3 A. (Leary) That is correct.

4 Q. And, a similar analysis, with all the same assumptions,
5 except for a 12.25 ROE, is found on Page 3 of 24 on
6 Exhibit 43, is that correct?

7 A. (Leary) That is correct.

8 Q. So, let's just walk through the information that's
9 provided. And, let's just pick Page 3 of Exhibit 42,
10 which is an evaluation of rate impacts at an ROE of
11 9.01 percent. Let's start with the bottom third of the
12 page. On the left column on the bottom third of the
13 page is the word "Customer Charge", and to the right of
14 that it says "9.88/Customer". Did I read that
15 correctly?

16 A. (Leary) That is correct.

17 Q. And, is that the Customer Charge under the current R-3
18 permanent rates for R-3 winter heating season?

19 A. (Leary) That is correct. Those are the rates that were
20 in place before the temporary rates were approved back
21 in August 24th of 2008.

22 Q. Okay. Thank you. Ms. Leary, just skipping to the
23 right, it has "Proposed Rate", "Customer Charge", and
24 it says "13.76". Is that the proposed Customer Charge

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1 at an ROE of 9.01 percent for R-3?

2 A. (Leary) That is correct.

3 Q. Thank you. And, underneath both of those customer
4 charges are the per therm rates for the head block and
5 the tail block, is that correct?

6 A. (Leary) That is correct.

7 Q. And, under the existing permanent rate design for R-3
8 winter heating season, and also under the proposed rate
9 for R-3 winter heating season, is that right?

10 A. (Leary) That is correct.

11 Q. Okay. Going up to the top of this Bill Impacts
12 Analysis, again still on Page 3 of 24, Exhibit 42.
13 Let's start with the first column to the left, just to
14 sort of explain the table. The first column on the
15 left is entitled "Sales therm". Is that the usage
16 levels?

17 A. (Leary) That is correct.

18 Q. And, can you describe the next column, the second
19 column from the left and what that illustrates?

20 A. (Leary) Okay. The next levels are the calculation of a
21 rate, let's say, if we take the first line item, at
22 zero, zero therm levels, that we have two components.
23 We're going to have the base rate component, which
24 would be the multiplication of those therm levels based

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1 on customer charge, head blocks, and tail block rates.
2 The next component is total revenue, which means it
3 would include both the cost of gas factor and the LDAC.

4 Q. Okay.

5 A. (Leary) We then, going across the board, we then show
6 that exact calculation based on the proposed rates.
7 And, then, we go right across the board showing the
8 variances between the components, both on a dollar
9 basis and on a percent basis.

10 Q. Ms. Leary, am I correct in reading the far right
11 column, underneath "Difference with CGC Revenues", and
12 the phrase "Percent Rate", that column indicates the
13 percent rate increase by usage for the R-3 winter
14 heating season at a 9.01 ROE?

15 A. (Leary) That is correct. That would be the total bill
16 impact, the column all the way over to the right.

17 Q. And, that same analysis is performed on Page 3 of 24 in
18 Exhibit 43, but at a 12.25 percent ROE?

19 A. (Leary) That is correct.

20 Q. Let's look quickly at sales therm usage level of 50
21 therms. And, does this assume that the total bill
22 impact would be a person consuming 50 therms per month?

23 A. (Leary) That is correct.

24 Q. And, if we shoot over to the far right-hand column on

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1 Page 3 of 24 of Exhibit 42, with an ROE of
2 9.01 percent, a person that consumes an average 50
3 therms would have a bill impact increase of
4 2.66 percent, is that right?

5 A. (Leary) That is correct.

6 Q. And, now looking at Page 3 of 24 of Exhibit 43, for a
7 similarly situated customer who consumes on average 50
8 sales therms, 50 therms, if you look at the far
9 right-hand column, with an ROE of 12.25 percent, their
10 bill would go up over permanent rates that are existing
11 of 5.37 percent, is that right?

12 A. (Leary) That's correct. Over the permanent rates, but
13 not the rates that are currently existing, in place
14 right now, not the temporary rates that are in place.

15 Q. Ms. Leary, just going down to "75" usage, 75 sales
16 therms, on Page 3 of 24 of Exhibit 2 -- 42, excuse me,
17 at 75 therms, at an ROE of 9.01, this customer would
18 see a bill impact increase of 1.12 percent increase, is
19 that correct?

20 A. (Leary) That is correct.

21 Q. And, going over to an ROE of 12.25 percent, in
22 Exhibit 43, Page 3 of 24, a person who consumes 75
23 therms on average would see a bill increase of
24 3.44 percent, is that right?

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1 A. (Leary) That is correct.

2 Q. A similar illustration is at 100 therms of usage, on
3 Page 3 of 24, Exhibit 42, of an ROE of 9.01 percent,
4 and that person would see a bill impact increase of
5 0.29 percent, is that right?

6 A. (Leary) That is correct.

7 Q. And, just going over to Exhibit 43, at 100 therms, that
8 person, at a ROE of 12.25 percent, would see a bill
9 impact increase of 2.41 percent?

10 A. (Leary) That is correct.

11 Q. Okay. Thank you, Ms. Leary. I have just a couple more
12 questions. Earlier you indicated that the proposed
13 rates are an overall decrease from temp. rates. Can
14 you confirm that the temp. rates were based on the
15 current rate design, not the proposed rate design?

16 A. (Leary) That is correct. In the temporary rate design
17 -- excuse me, with the temporary rates, we took the
18 currently approved rate design and just escalated each
19 component, Customer Charge, head block, and tail block,
20 by the overall increase, which turned out to be
21 approximately 16 percent.

22 Q. Thank you, Ms. Leary. One last question. If you can
23 turn to Page 8 of the Settlement Agreement, and let me
24 know when you make it there.

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1 A. (Leary) I am there.

2 Q. Thank you. Reading from Item 2 on Page 8, first
3 sentence: "While not all parties agree that marginal
4 costs should be used to allocate class revenue
5 requirements or to design rates, the rate design in
6 this case will more closely approximate the marginal
7 costs to serve as calculated by the Company." Did I
8 read that correctly?

9 A. (Leary) Yes, you did.

10 Q. And, do you agree that not all parties agree that
11 marginal costs should be used to allocate class revenue
12 requirements or design rates?

13 A. (Leary) Yes, we are aware from the prefiled testimony
14 of both the OCA and NHLA that not all parties agree
15 that that's the appropriate methodology.

16 MR. FELTES: Thank you. No further
17 questions.

18 CHAIRMAN GETZ: Thank you.
19 Ms. Hatfield.

20 MS. HATFIELD: Thank you, Mr. Chairman.
21 Good morning, Ms. Leary.

22 WITNESS LEARY: Good morning.

23 BY MS. HATFIELD:

24 Q. I have a question for you also on Page 8 of the

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Settlement Agreement, which is Exhibit 41. If you
2 could look at Paragraph 4.

3 A. (Leary) Yes.

4 Q. Could you just look at the second sentence and describe
5 the impact of reducing the current declining block
6 price differential by half on the impact on customers?

7 A. (Leary) Yes. I mean, the reason, as I said earlier,
8 the reason why we reduced the disparity between the
9 head block and the tail block was we were concerned
10 with the intraclass bill impacts that would occur. So,
11 what we had done is, by reducing this variance between
12 these two components, the overall rate increase for
13 like a typical residential heating customer would be
14 similar, you know, it would not vary greatly, depending
15 on the customer's usage. We had looked at these bill
16 impacts that you saw in Exhibit 42 and 43 that the NHLA
17 had just walked us through, and we were concerned, when
18 we looked at the total impact, and the parties were
19 concerned, that there was too much disparity between a
20 low use customer and a high use customer.

21 MS. HATFIELD: Thank you very much. No
22 further questions.

23 CHAIRMAN GETZ: Thank you. Mr. Damon.

24 MR. DAMON: Thank you.

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 BY MR. DAMON:

2 Q. As I understand it, the Partial Settlement Agreement
3 remains valid regardless of what decision the
4 Commission makes on return on equity, is that correct?

5 A. (Leary) That is correct, as long as they approve the
6 Partial Settlement that we see here today, yes.

7 MR. DAMON: No further questions.

8 CMSR. BELOW: Yes.

9 BY CMSR. BELOW:

10 Q. You're distinguishing between the R-1 non-heating
11 residential rate and the R-3 and 4 rates for
12 residential heating. And, I was just curious, I think
13 you were making a clarification with the tariff as part
14 of the Settlement or allowed that possibility. And,
15 there's a reference to "gas space heating equipment".
16 And, I was just curious, as there's a tendency to use
17 gas hot water heaters, high-efficiency gas hot water
18 heaters for space heating, if you have accommodated
19 that or would you consider a gas hot water heater
20 that's used for space heating to be gas space heating
21 equipment?

22 A. (Leary) A gas hot water heater that is used for --

23 Q. Space heating. Such as a condensing hot water heater
24 high output, it's something that contractors are doing

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1 these days, particularly with highly insulated homes.

2 A. (Leary) Well, I think that what we're looking for is
3 really the purpose, whether it's a gas hot water heater
4 or if it's a boiler or furnace, the purpose is "what
5 are you using it for?" If it's using it to heat your
6 home, then you would be on our residential heating
7 rate. More than what appliance you're using, how
8 you're using an appliance.

9 Q. Right. That was my question.

10 A. (Leary) Yes.

11 Q. It's the intent of the tariff is to address how it's
12 used, and if you've accommodated this changing use of
13 an appliance that traditionally was just used for hot
14 water heating, which would be just an R-1 rate, if
15 there was no space heating. Is that correct?

16 A. (Leary) Well, I mean, I wonder if we would classify
17 that, even though it's a hot water heater that's used
18 for -- that's used for space heating, then it would be
19 classified as, based on the availability clause in our
20 tariff, we could classify that as a R-3 customer, a
21 space heating customer.

22 CMSR. BELOW: Okay. Thank you.

23 CHAIRMAN GETZ: All right. Any further
24 questions for the panel?

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1 MR. CAMERINO: I just have one
2 clarification.

3 CHAIRMAN GETZ: Mr. Camerino.

4 **REDIRECT EXAMINATION**

5 BY MR. CAMERINO:

6 Q. Ms. Leary, and you may have said this, but Mr. Feltes
7 was taking you through Exhibits 41 [42?] and 42 [43?]
8 for the bill impacts. And, that document, the first
9 set of rates is entitled "Present Rate", do you see
10 that?

11 A. (Leary) Yes, I do.

12 Q. Okay. When that document says "Present Rate", am I
13 correct that it's actually referring to the rates that
14 were formerly in effect?

15 A. (Leary) That is correct. And, I think he pointed that
16 out at the beginning. Those are not the temporary
17 rates that are currently in effect. Those are the
18 rates that were in effect during the test year.

19 Q. And, I take it you could rerun this type of schedule,
20 if you were to compare it to the temporary rates that
21 are currently in effect?

22 A. (Leary) Yes, we could.

23 Q. I'm not asking you to do that, though.

24 A. (Leary) Thank you.

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1 Q. I want to live after today's hearing. And, just give
2 us a rough sense of what would happen to these
3 differences, would they -- and I'm not looking for
4 actual numbers, but just a sense of magnitude or
5 positive or minus, what would happen if we reran it --

6 A. (Leary) Well, I think --

7 Q. -- if we reran it comparing it to what's currently in
8 effect?

9 A. (Leary) Yes. I think that, on a -- as I mentioned in
10 the direct testimony, even at the 12.25 percent ROE,
11 the total increase will be less than what was in effect
12 on the temporary rates. However, the problem that we
13 have is the temporary rates were based on current rates
14 escalated, each component was escalated by the overall
15 increase of 16 percent. And, as an example, let's look
16 at the residential heating customers. I think we are
17 close to \$12 for a Customer Charge. The rates that
18 we're proposing today, either at the 12.25 percent ROE
19 or even at the 9.01, is closer to \$14. So, even
20 though, compared to the temporary rates, in total we
21 should not see an increase, there will be small
22 increases for lower use customers based on that.

23 MR. CAMERINO: All right. Thank you.

24 And, then, Mr. Chairman, I just have one clarification for

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1 the record. In this Settlement Agreement, we actually
2 attached the tariff provision for the main extension
3 policy, which is Appendix 6. And, I just want to make
4 clear that we believe, in the compliance filing portion of
5 this proceeding, there are probably some minor
6 non-substantive wording changes or formatting changes,
7 collapsing sections together, that type of thing, that
8 will need to occur. And, so, we wouldn't want the order
9 to reflect that, because the tariff provision is actually
10 in the Settlement Agreement, that the final language needs
11 to be verbatim, we would obviously work that out with
12 Staff and the parties, but we do expect some
13 non-substantive changes there.

14 CHAIRMAN GETZ: Okay. Thank you.

15 MR. CAMERINO: Thank you.

16 CHAIRMAN GETZ: Anything further?

17 Mr. Damon.

18 MR. DAMON: Yes, I have a few questions
19 for Mr. Frink. It's more in the nature of direct
20 examination.

21 **DIRECT EXAMINATION**

22 BY MR. DAMON:

23 Q. Mr. Frink, would you state what concerns the Staff had
24 regarding the Company's rate filing?

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

- 1 A. (Frink) Staff's primary concerns related to the return on
2 equity, construction work in progress, bad debt, cash
3 working capital, the amortization of the depreciation
4 reserve surplus, a pension reconciliation mechanism
5 proposal, rate design, and the proposed line extension
6 policy.
- 7 Q. Does the Settlement Agreement -- the Partial Settlement
8 Agreement address the concerns that Staff raised?
- 9 A. (Frink) Other than the ROE, all of Staff's concerns
10 were addressed.
- 11 Q. And, what needs to be done to finalize the revenue
12 requirement for delivery service?
- 13 A. (Frink) At this point, there's a minor difference, but
14 that's being worked out between the Company and Staff,
15 and it will have a negligible, if any, impact on rates.
16 It's more of a compliance filing issue.
- 17 Q. Okay. I think the question was actually maybe
18 something that was addressed to Ms. Leary. She
19 described how the revenue requirement could be derived
20 from the information in the Settlement Agreement, and
21 then plugging in an ROE number, correct?
- 22 A. (Frink) Correct.
- 23 Q. So, that still needs to be done?
- 24 A. (Frink) Yes, it does.

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{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Q. Okay. And, could you briefly describe how the
2 Settlement addresses the Staff's concerns?

3 A. (Frink) Well, in the filing, there were projects
4 identified as "construction work in progress" and "jobs
5 in progress", which were actually placed into service
6 during the test year, and therefore don't violate the
7 state's anti-CWIP statute. And, accordingly, Staff
8 agreed to include them in rate base, which is
9 encompassed in the Settlement.

10 For bad debt, there were two parts to
11 bad debt. With regard to delivery related bad debt
12 costs, the Settlement establishes a bad debt percentage
13 of 1.75. That's substantially less than what the
14 Company is currently experiencing. In order to achieve
15 this percentage, the Company will need to hire
16 additional collection personnel. The Settlement
17 revenue requirement provided for the recovery of
18 increased collection costs. With regard to commodity
19 costs, the Settlement establishes a four year phase-in
20 period, beginning with a bad debt percentage of
21 2.54 percent and ending with a 1.75. This phase-in of
22 the commodity-related bad debt percentage recognizes it
23 will take some time to reduce the write-offs.

24 With regard to cash working capital, the

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 cash working capital requirement for delivery and
2 commodity services will be included in rate base and in
3 the cost of gas respectively at the levels recommended
4 by Staff.

5 Amortization of depreciation surplus,
6 there's a surplus of over \$12 million, and it's going
7 to be returned to ratepayers at about a million dollars
8 a year. And, while eliminating that reserve will take
9 longer than Staff normally has -- Staff's agreed to in
10 other proceedings, the Settlement Agreement recognizes
11 the unusual size of the surplus.

12 The pension reconciliation mechanism,
13 and the filing proposed a mechanism that would adjust
14 rates based on the actual pension and related costs
15 experienced each year. That mechanism has been
16 eliminated in this provision -- in this Settlement.

17 For rate design, in order to reflect the
18 results of the Company's cost of service study, some
19 rate classes will be subject to higher rate increases
20 than others. However, no class will experience an
21 increase in revenue requirements greater than
22 112.5 percent of the overall average rate increase. A
23 significant percentage of the increased revenues will
24 be collected through higher customer charges.

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{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Regarding the line extension policy, the
2 Settlement retains the current line extension policy
3 with one exception: Residential customers within 80
4 feet of an existing main will no longer be guaranteed
5 service, but will be subject to a revenue -- will no
6 longer be guaranteed free service, but will be subject
7 to the revenue test that applies to non-residential
8 service. In the limited instances where four years of
9 projected revenues does not exceed the expected capital
10 cost, a customer contribution will be required. The
11 revenue test reduces the risk of subsidization of new
12 customers by existing customers.

13 Q. Do you have other comments regarding the Settlement
14 Agreement?

15 A. (Frink) Yes. The adjustments made to rate base,
16 revenues and expenses reflected in the Settlement are
17 based on sound ratemaking principles and have been
18 appropriately allocated between delivery and commodity
19 services. Although the outcome of the Commission's
20 deliberations on return on equity will impact the
21 return on rate base, it will not impact the size of the
22 rate base. The rate base adjustments encompassed in
23 the Partial Settlement Agreement are appropriate and
24 were made independent of the debate over the return on

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 equity.

2 Q. In conclusion, in Staff's view, is the Partial
3 Settlement Agreement consistent with the public
4 interest?

5 A. (Frink) Yes, it is.

6 MR. DAMON: Thank you.

7 CHAIRMAN GETZ: Mr. Camerino, any
8 questions for Mr. Frink?

9 MR. CAMERINO: I have a couple.

10 **CROSS-EXAMINATION**

11 BY MR. CAMERINO:

12 Q. Mr. Frink, in your summary, you identified what you
13 said were the resolution of certain issues, and I won't
14 take you through each one. One of them comes to mind,
15 though, for example, the bad debt rate for the delivery
16 portion. And, not all of those items that you
17 discussed are spelled out in the Settlement Agreement,
18 correct?

19 A. (Frink) Correct.

20 Q. And, that's in part because the parties actually don't
21 agree on exactly what those components are, although
22 they agree on the total outcome of the case. Is that a
23 fair statement?

24 A. (Frink) It is.

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Q. And, it's the parties' intention that it's the
2 provisions of the Settlement Agreement, once approved
3 by the Commission, that would be binding on them and be
4 implemented into rates. And that, to the extent that
5 you identified resolution of issues that are not
6 spelled out in the Settlement Agreement, those are not
7 binding or -- nor precedential, is that a fair
8 statement?

9 A. (Frink) That is correct, yes.

10 Q. Okay. So, you're really articulating kind of how the
11 Staff was conceptualizing the resolution that it
12 reached?

13 A. (Frink) Right. I was trying to -- well, I was simply
14 trying to explain that the concerns raised by Staff
15 have been satisfactorily addressed. And, some of the
16 details, for instance, of bad debt is contained in the
17 Settlement Agreement. But, you're right, overall, the
18 Commission -- the Settlement doesn't tie the Company to
19 specifics other than as explicitly stated in the
20 Agreement.

21 MR. CAMERINO: Right. Thanks very much.

22 CHAIRMAN GETZ: Mr. Feltes?

23 MR. FELTES: Nothing further. Thank
24 you.

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 CHAIRMAN GETZ: Ms. Hatfield?

2 MS. HATFIELD: One moment please.

3 (Short pause.)

4 MS. HATFIELD: Thank you.

5 BY MS. HATFIELD:

6 Q. Mr. Frink, I believe in response to a question from
7 Mr. Damon, regarding what needs to be done to finalize
8 the final rates that will be approved by the
9 Commission, you referenced a minor discrepancy that was
10 being worked out between the Company and Staff. I'm
11 wondering if you can describe what that is and also
12 explain how that fits into the Settlement that the
13 Commission is considering?

14 A. (Frink) As I tried to articulate, there's a -- it's
15 more of a compliance issue. Mr. McCluskey, a utility
16 analyst, is working with one of the Company's
17 representatives. And, this Settlement Agreement,
18 Partial Settlement Agreement, once a rate of return on
19 equity is determined, we'll establish a revenue
20 requirement, which is then recovered through the rate
21 design process using a functional cost of service
22 study. And, it is that second step where Mr. McCluskey
23 and the Company have been working on establishing that
24 the rate design is getting exactly to that number that

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 is the revenue requirement. And, they're extremely
2 close, at this point it's a matter of thousands of
3 dollars on over a 5 million -- on approximately a
4 \$5 million revenue requirement or higher. And, so, I
5 don't imagine, if you were to -- that difference would
6 even impact the rate at all. But it's one minor item
7 that the Company and Staff had agreed that they work
8 out when the time comes.

9 Q. And, does the difference come down to how the Company
10 recovers the costs, whether it's through distribution
11 rates or through the cost of gas rate?

12 A. (Frink) Yes, this -- that pertains to the delivery
13 rate.

14 MS. HATFIELD: Mr. Chairman, it might be
15 helpful for the parties just to take a brief recess to
16 discuss this issue off the record. Because my
17 understanding is that the OCA just isn't aware of a
18 previous discussion, but I don't think -- it sounds, from
19 Mr. Frink's testimony, that this doesn't have an impact on
20 the Settlement or on the final revenue requirement. And,
21 in fact, we don't need to do it right now. We can do it
22 later off the record.

23 CHAIRMAN GETZ: Well, why don't we --
24 this is pretty much the substance of your questions for

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 Mr. Frink?

2 MS. HATFIELD: Yes.

3 CHAIRMAN GETZ: Why don't we complete
4 the panel, and then we'll take a brief recess. You can
5 discuss this issue, report back any issues that may
6 persist when we come back on the record. But, then, I
7 presume that, when we come back on the record, we'll be
8 hearing from the Company's return on equity witness, is
9 that correct?

10 MR. CAMERINO: That's correct.

11 CHAIRMAN GETZ: Okay.

12 MS. HATFIELD: Actually, if I could just
13 ask Mr. Frink one last question.

14 BY MS. HATFIELD:

15 Q. Would Staff be willing to include the other parties in
16 the discussions related to this matter with the
17 Company?

18 A. (Frink) Certainly.

19 MS. HATFIELD: Thank you.

20 CHAIRMAN GETZ: Okay. Is there
21 anything? Commissioner Below, do you have any questions?

22 CMSR. BELOW: No.

23 CHAIRMAN GETZ: Anything else for the
24 panel?

{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 (No verbal response)

2 CHAIRMAN GETZ: Okay. Hearing nothing,
3 then the panel is excused. And, we'll take a very brief
4 recess and resume with the Company's return on equity
5 witness.

6 (Whereupon a recess was taken at 11:25
7 a.m. and the hearing reconvened at 11:45
8 a.m.)

9 CHAIRMAN GETZ: Mr. Camerino.

10 MR. CAMERINO: Thank you. The Company's
11 prepared to -- well, first of all, I think I just want to
12 confirm that Ms. Hatfield has resolved whatever remaining
13 issue there was related to the questions for Mr. Frink.

14 MS. HATFIELD: Yes. Thank you. Mr.
15 Chairman, we did speak with Staff and the Company at the
16 break. And, it's our understanding that the ongoing
17 conversation between Staff and the Company will not result
18 in any change to any of the Settlement terms as proposed
19 to the Commission.

20 CHAIRMAN GETZ: All right. Thank you.

21 MS. HATFIELD: Thank you.

22 MR. CAMERINO: So, the Company is
23 prepared to proceed on the litigated portion of this
24 docket on return on equity. And, just to clarify

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{WITNESS PANEL: Leary|O'Shaughnessy|Frink}

1 procedurally for the Commission, we plan to present Paul
2 Moul as the witness on direct, and in that he will present
3 both his direct and rebuttal testimony. Then, it's my
4 understanding that the Staff will present its witness.
5 And, then, the Company will present Mr. Stavropoulos as a
6 rebuttal witness. We're doing that for two reasons. One
7 is, his ROE testimony is only in his rebuttal testimony,
8 not in direct. There is about a page of it there. The
9 other, frankly, is a scheduling reason, which is he won't
10 be available until tomorrow either. But we would expect
11 his testimony to be relatively brief. So, that's the
12 order that we plan to proceed in.

13 CHAIRMAN GETZ: Okay. And, then,
14 followed by -- and that will be all the witnesses on ROE?

15 MR. CAMERINO: That's my understanding.
16 That the other parties do not have witnesses on return on
17 equity.

18 CHAIRMAN GETZ: All right. Please
19 proceed.

20 MR. CAMERINO: Thank you. The Company
21 calls Paul Moul.

22 (Whereupon **Paul R. Moul** was duly sworn
23 and cautioned by the Court Reporter.)

24 **PAUL R. MOUL, SWORN**

{WITNESS: MOUL}

1

DIRECT EXAMINATION

2

BY MR. CAMERINO:

3

Q. Okay. Mr. Moul, would you give us your name and business address for the record please.

4

5

A. Yes. My name is Paul Moul. It's spelled M-o-u-l.

6

And, the way I pronounce it, it rhymes with the word

7

"owl". It's a tough one to pronounce. My address is

8

251 Hopkins Road, Haddonfield, New Jersey 08033.

9

Q. And, would you just identify your employer and what you do for that employer?

10

11

A. Yes. I'm the Managing Consultant at the firm P. Moul & Associates, an independent financial and regulatory consulting firm.

12

13

14

Q. Okay. And, your testimony today, I take it's going to concern return on equity?

15

16

A. It does.

17

Q. Okay. And, you've submitted written direct and rebuttal testimony in this proceeding?

18

19

A. Yes, I did.

20

Q. Okay. And, I want to show you those documents, which we've previously marked as "Exhibit 9", which is your February 25, 2008 direct testimony, and "Exhibit 33", which is your December 15, 2008 rebuttal testimony.

21

22

23

24

And, ask you if these documents were prepared by you or

{WITNESS: MOUL}

1 under your direction?

2 A. Yes, they were.

3 Q. And, subject to any corrections that you may be about
4 to make, are they true and accurate to the best of your
5 knowledge and belief?

6 A. They are.

7 Q. And, if I were to ask you these questions today,
8 subject to the update in your rebuttal, your responses
9 would be the same, I take it?

10 A. Yes, they would.

11 MR. CAMERINO: Okay. For the
12 Commission's information, just for clarity of the file,
13 the document that we have marked as "Exhibit 9" has two
14 pages inserted to it that were left out of the original
15 filing. That's Page 6, down in the middle of the page,
16 which on your copy should be numbered as an absolute page
17 number "5A". I just want to make sure you have that,
18 because, if you don't, we can supply those to the
19 Commissioners. And, I think the Clerk will need, again,
20 on Page 6 of Exhibit 9, I think the Clerk will need to
21 insert a "5A" in the lower right-hand corner so that the
22 absolute numbering is there.

23 CHAIRMAN GETZ: Yes, I don't see those
24 pages here.

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{WITNESS: MOUL}

1 MR. CAMERINO: And, we can provide
2 those. Those were submitted shortly after the initial
3 filing. The other page is, if you look on Page 17, down
4 in the middle of the bottom of the page, that should be
5 numbered in the lower right-hand corner as "15A". Sounds
6 like the Commissioners do not have those pages?

7 CHAIRMAN GETZ: Not inserted in the
8 originals.

9 MR. CAMERINO: Okay. Well, we'll
10 provide those during the lunch break.

11 BY MR. CAMERINO:

12 Q. So, Mr. Moul, with those page numbering changes, do you
13 have any corrections to your testimony?

14 A. Yes, I'm aware of one correction we need to make at
15 this time. And, it relates to what is shown as Page
16 "12" in the center of the sheet, but Page "11" in the
17 lower right-hand portion of the sheet. And, the
18 correction I'd like to make is on Line 18.

19 MR. DAMON: Which exhibit?

20 WITNESS MOUL: That's on 9, I'm sorry.

21 BY MR. CAMERINO:

22 Q. So, that's in your direct testimony?

23 A. Correct.

24 CHAIRMAN GETZ: And, you're talking

{WITNESS: MOUL}

1 about the section of the percentages of operations for the
2 gas utility business, I take it?

3 WITNESS MOUL: Yes, Mr. Chairman.

4 **BY THE WITNESS:**

5 A. What I'm looking at there is the first percentage,
6 after the word "revenues", it says "70 percent"; the
7 correct number is "66 percent".

8 BY MR. CAMERINO:

9 Q. And, that correction was previously provided to the
10 parties in the response to a data request?

11 A. It might have been. Certainly, the data request
12 contained the correct percentage. And, by looking at
13 the data request response, that triggered the
14 correction that we made here this morning.

15 Q. Thank you. All right. I'd like to begin by just
16 asking if you would summarize your educational and
17 professional experience. And, let's just start with
18 some of your prior employers and what that work
19 entailed?

20 A. Yes. I've been in the public utility business
21 approximately 35 years. I began my employment with
22 American Water Works Service Company in the Eastern
23 Regional Treasury Department, where I performed
24 treasury duties for the 13 operating subsidiaries of

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{WITNESS: MOUL}

1 American Water Works here in New England, including one
2 of the subsidiaries they had in New Hampshire. After a
3 couple of years with American Water Works, I went on to
4 work for Betz Environmental Engineers. There I
5 provided a number of different financial studies for
6 principally municipally owned water and wastewater
7 utilities. Subsequently, I went to work for Associated
8 Utility Services in 1974, and was at AUS for 20 years,
9 doing much of the same work that I'm doing today as an
10 independent consultant. I formed my own consulting
11 firm in 1994, and for the last 15 years have been doing
12 this type of work for both investor-owned utilities and
13 for other entities.

14 Q. And, I take it you've testified in regulatory
15 proceedings on prior occasions?

16 A. Yes, many times. I've testified -- At the time I
17 prepared the direct testimony, the count was 30
18 regulatory agencies, both at the state, federal and
19 municipal level. It's now increased to 35. And, I've
20 appeared in over 200 rate cases. And, of course, I do
21 other types of consulting work as well.

22 Q. And, have you -- has your work been just for
23 investor-owned utilities or have you done work for
24 other entities as well?

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1 A. No, I have done work for other entities as well. I've
2 been hired has a consultant to the Staff of the
3 Delaware Public Service Commission. I've done quite a
4 bit of work for other municipally owned or publicly
5 owned utilities. I've represented the County of
6 Baltimore in a water rate dispute with the City of
7 Baltimore representing the customers of the
8 Metropolitan District. I've done a similar type of
9 work in Bucks County, Pennsylvania, and for other
10 entities as well.

11 Q. And, how about in terms of this particular industry,
12 the gas industry, have you worked on a number of
13 occasions on gas utility issues?

14 A. Yes. I have a long history of doing work in the
15 natural gas industry, both at the distribution level
16 and also at the interstate pipeline level. And, of
17 course, my consulting experience goes to the electric
18 utility industry and other types of regulated entities
19 as well.

20 Q. And, I take it that the detail behind your experience
21 is set forth in Attachment PRM-1? Is that the right
22 attachment to your direct testimony? It looks to me
23 like it starts on absolute Page 43 of what has been
24 marked as "Exhibit 9"?

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{WITNESS: MOUL}

1 A. Yes, that's correct.

2 Q. Okay. Mr. Moul, --

3 MR. CAMERINO: And, Mr. Chairman, we
4 haven't done this in a long time, but just to be careful,
5 I would ask that Mr. Moul be qualified to testify as an
6 expert in this proceeding?

7 CHAIRMAN GETZ: Any objection to that,
8 qualifying Mr. Moul as an expert for the purposes of this
9 proceeding and his testimony?

10 (No verbal response)

11 CHAIRMAN GETZ: And, we recognize him as
12 such.

13 MR. CAMERINO: Thank you.

14 BY MR. CAMERINO:

15 Q. Mr. Moul, I'd like you to summarize your testimony.
16 And, if you would begin with the return on equity that
17 you're recommending in this case.

18 A. I originally conducted my study of the cost of equity
19 using market evidence through calendar year-end 2007.
20 And, it took a while to prepare the testimony, but the
21 testimony was ultimately filed in February 2008. So,
22 it's been nearly a year since the direct testimony was
23 prepared. And, in the direct testimony, I arrived at a
24 recommended 11.5 percent rate of return on common

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1 equity, using the four approaches that I use to measure
2 the cost of equity.

3 So, so much time had elapsed, and so
4 much turmoil developed in the capital markets since the
5 direct testimony was filed, at the point where we filed
6 the rebuttal testimony, we took the occasion to update
7 those methods and methodologies. The updates were
8 applied with the very same companies, the very same
9 methods, the very same types of sources, but with more
10 current information. And, we filed that update with
11 the rebuttal on February [December?] 15th, 2008. So,
12 that's ten months later. And, in the update, due to
13 all the turmoil that's going on in the capital markets
14 today, I increased my recommended rate of return on
15 common equity to 12 and a quarter percent.

16 Now, in both the original and the
17 update, I used four measures to measure the cost of
18 equity: The Discounted Cash Flow Method, which the
19 Commission is very familiar with; the Capital Asset
20 Pricing Model, which the Commission is also very
21 familiar with; the Comparable Earnings Method; and the
22 Risk Premium Method. And, as I indicated in both my
23 direct and rebuttal testimony, each of these methods
24 has simplifying assumptions, which do not necessarily

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1 conform with the way investors behave in the capital
2 markets when they purchase stocks, or bonds, for that
3 matter. And, because of the simplifying assumptions,
4 we find that each method has, to varying degrees, a
5 certain amount of infirmities in it. Because we're
6 trying to measure something that is not directly
7 observable in the capital markets, the cost of equity.

8 And, if you want to know what the
9 interest rate on a bond is, just look it up in the
10 paper or the Internet and you can see what the yield on
11 a bond is. But the cost of equity is not directly
12 observable. That's why we need to use models. With
13 hard data, but the models themselves have simplifying
14 assumptions or omissions that bear on what investors
15 perceive to be important in their decision to buy, hold
16 or sell a stock, and what the models themselves attempt
17 to deal with. And, because of the limitations and
18 infirmities in each of the models, I feel it's
19 important to look at a variety of models to try to get
20 a handle on the cost of equity. Because the methods we
21 use to measure the cost of equity, they seem very
22 scientific, there are specific inputs. But, when push
23 comes to shove, the cost of equity is more of an art
24 than it is a science. Even though we have a lot of

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{WITNESS: MOUL}

1 empirical data to look at, there is a considerable
2 amount of judgment that goes into coming up with the
3 final recommendation that may or may not be reflected
4 in the results of the models.

5 Q. Okay. So, I think to some extent you touched on this,
6 but what is it that causes you to rely on multiple
7 models, rather than a single model?

8 A. Well, one of the advantages of looking at multiple
9 models is, we can get a sense of whether the result of
10 a particular model is an outlier or not. By looking at
11 a variety of models, we can look at the results of
12 each, and then make a determination whether one
13 particular model is giving a rational, reasoned
14 assessment of the cost of equity by reference to other
15 models. It brings perspective to the results of any
16 one of the models.

17 Q. Okay. I'm going to ask you a couple of other questions
18 about those infirmities, but first I just want to get
19 on the record, could you just provide the results of
20 each of the models that you used and how they affected
21 your recommended return on equity in this case?

22 A. Oh, sure. And, what I would do is focus on the
23 updates, because that's, at this juncture, the most
24 important data that I think the Commission ought to

{WITNESS: MOUL}

1 look at. The results of the DCF model with the updated
2 information is 10.55 percent. The results of the Risk
3 Premium model is 12.71 percent using the updated data.
4 And, the results of the CAPM is 13.91 percent with the
5 updated data. And, those are the three, I know I
6 mentioned four models at the outset, but these three
7 are the market-based models, which I emphasize the most
8 in coming up with my recommendation, because they are
9 -- they do use market data, unlike Comparable Earnings,
10 which is driven more by the business cycle, rather than
11 by market information. And, I would urge the
12 Commission to consider the results of DCF, Risk
13 Premium, and CAPM.

14 Q. Okay. In your -- And, actually, one clarification I
15 want to just make for the record. I think you referred
16 to your rebuttal testimony as being dated "February
17 15"?

18 A. Oh, I'm sorry. It was December 15th.

19 Q. Thank you. So, in your testimony, you indicate that
20 you believe that the DCF is less reliable, a less
21 reliable method, and that's the one that the Staff
22 witness relied on primarily. Would you just indicate
23 why that's your view?

24 A. Well, I think it's manifest in the numbers that I just

{WITNESS: MOUL}

1 relayed to the Commission. The 10.55 percent DCF
2 result is well below the results of both the Risk
3 Premium and the CAPM model results, and indeed less
4 than Comparable Earnings as well. And, I think that,
5 just by looking at the magnitude of the numbers, it
6 seems quite obvious that the DCF is the outlier here.

7 Q. Now, you indicated that there are problems with each
8 model. Can you give us a sense of the problems that
9 you see with the DCF model as the Staff has applied it?

10 A. Yes. On DCF, and, again, I go back to the point I made
11 earlier with the simplifying assumptions, there's a
12 variety of simplifying assumptions related to DCF. One
13 is that there's a constant dividend payout ratio.
14 There's an assumption that the price earnings multiple
15 will remain constant and not change. There's the
16 assumption of a constant return on book equity.
17 There's issues of whether you should give greater
18 emphasis to historical or forecast data developed by
19 financial analysts. There's the issue of what
20 variables we should give greatest weight to: Earnings
21 per share, dividends per share, book value per share,
22 retention growth. And, of course, one of the things
23 you also want to look at is whether flotation costs are
24 an appropriate component of the DCF model. So, there's

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1 lots of issues with DCF. But we could go through the
2 other models and find issues with them, too.

3 Q. And, it's those infirmities, as you said before, that
4 cause you to use multiple models, rather than just one?

5 A. Correct. As I said, at the end of the day, when it
6 comes to the cost of equity, the number has to pass the
7 sniff test. And, if you have one model that's clearly
8 producing a number that is out of keeping with other
9 models, either we have to go back and look at some of
10 the assumptions implicit in the model, how it's being
11 applied, or, if we can't deal with some of those
12 issues, then we need to supplement that model with
13 other results.

14 Q. Okay. In your testimony, you discuss why setting the
15 return on equity is such a critical function, and why
16 it's important to the Company and its investors. Could
17 you summarize that please.

18 A. Yes. In my rebuttal testimony, I relayed to the
19 Commission the importance of the rate of return in
20 public utility rate cases. In the reporting of rate
21 case outcomes, the ROE is always prominently discussed.
22 And, the reason that is so is because it's a number
23 that's widely understood by all types of investors. It
24 is a number that can be compared from one company to

{WITNESS: MOUL}

1 another, or from one industry to another. It's widely
2 understood. It's commonly used. Everybody understands
3 rates of return. Whether they be expressed in terms of
4 the interest rate you pay on a credit card or what you
5 get from your bank on your savings account or what the
6 money market from a mutual fund is paying or what type
7 of return you can realize by investing in stocks,
8 bonds, mutual funds, and so forth. It's -- It's the
9 fundamental benchmark that can be objectively assessed
10 to compare one investment opportunity to another.

11 Q. Well, in this case, there were a lot of issues in
12 dispute that got resolved in varying ways. Are you
13 saying that the investment community doesn't care about
14 the resolution of those issues?

15 A. Oh, I think they do. But it takes varying degrees of
16 sophistication to pick up on the nuances of rate design
17 or depreciation issues or how you do the test year and
18 how you annualize for this cost or that cost, so forth
19 and so on. Those are all very important issues. But
20 it takes, in some instances, a lot more sophistication
21 to make a judgment on whether this particular set of
22 circumstances is any better or worse than another set
23 of circumstances. But everybody gets the rate of
24 return, because it's something everybody understands,

{WITNESS: MOUL}

1 and you can compare it from one company to another, or
2 one rate case decision to another.

3 Q. In your testimony, you also discuss several ways that
4 one can judge the reasonableness of the recommendation
5 that the Staff witness has made in this case. Can you
6 summarize those comparisons, the touch points that you
7 discussed?

8 A. Yes. There were generally several items that I felt
9 could be used to assess the Staff's recommendation,
10 without getting down in the minutia of all the
11 nitty-gritty details of how you got to what you got.
12 And, I think it's important for the Commission, again,
13 at the end of the day, when it finally comes time to
14 make the decision, to compare what it is contemplating,
15 insofar as the types of returns that are available,
16 that have been granted by other state regulatory
17 commissions. Now, I'm not trying to tell you that you
18 have to mimick what everybody else is doing. That's
19 not it. But what you do need to be thinking about is
20 whether the return is within the range of types of
21 returns other -- other regulatory bodies have recently
22 granted, because those are the kinds of comparisons
23 that investors are going to make before they commit
24 capital to an enterprise.

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1 The other thing I -- One of the other
2 things I looked at, again, without getting down into
3 all the gory details, was I looked at the kind of
4 returns that Value Line was publishing that the gas
5 industry generally is expected to realize or achieve.
6 And, in that particular regard, as with the comparison
7 of the other returns granted by the regulatory
8 agencies, I find that the Staff recommendation is just
9 way too low.

10 The third thing that I thought you could
11 look at, again, without getting bogged down in all the
12 nuts and bolts, is to be mindful of the general state
13 of the capital markets. We've gone through
14 disruptions, turmoil, crisis, unlike anything since the
15 Great Depression, over the last year. And, I could sit
16 here and go through all the events, the Lehman
17 Brothers, Bear Sterns, and all that kind of stuff, the
18 Jenny Mae -- or, Fannie Mae and Freddie Mac and Merrill
19 Lynch, all that kind of the stuff we could go through,
20 and it's in my testimony, if you care to read it. But
21 what you find is that the equity markets in particular
22 are so much more volatile than they ever have been.
23 And, high volatility in the equity markets means
24 investors are faced with higher risk. And, when

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1 they're exposed to higher risk, they demand higher
2 returns. So, just on the surface, it seems quite
3 obvious to me that returns today need to be higher in
4 recognition of this higher volatility and higher risk
5 in the equity markets.

6 Q. The Staff, in developing the growth factor for their
7 DCF method, relies on three different indicators,
8 earnings per share, dividends per share, and book value
9 per share. Would you summarize your testimony about
10 what you think is wrong with the reliance on those
11 three indicators, versus your methodology of your using
12 the earnings per growth -- your earnings per share
13 growth factor alone?

14 A. Yes. The empirical evidence shows that earnings per
15 share growth is the primary driver of investor
16 expectations when it comes to the DCF model. Professor
17 Myron Gordon, one of the foremost proponents of the DCF
18 model, made that determination. And, the basic
19 assumptions of DCF indicate that earnings per share is
20 the right measure. Because, with a constant price
21 earnings multiple, the price of your share of stock is
22 going to go up at the same rate as earnings.

23 Now, Staff also looked at the book value
24 growth and dividend per share growth. And, the problem

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1 I have with book value per share growth is that stocks
2 don't always trade at the same multiple of book value.
3 So, I believe that the evidence indicates that book
4 value is a pretty poor indicator. But what's worse is
5 the dividend per share growth rate. And, if you look
6 at the Staff numbers, DPS growth, dividend per share
7 growth, is clearly an outlier. It is so much different
8 to all of the other indicators, and then we need to
9 answer the question "Well, why is that?" And, the
10 reason that it's so much lower is that -- it is there's
11 a forecast of declining dividend payout ratios. So,
12 what's going to happen is, with declining dividend
13 payout ratios, earnings are going to grow, and hence
14 stock price is going to grow, at the higher rate than
15 dividend per share growth, because the forecast is for
16 a declining payout ratio. So, I think it looks pretty
17 clear to me, in both looking at the numbers and
18 thinking about the theory of DCF, that dividend per
19 share growth should not receive a lot of weight, if
20 any, in this type of analysis.

21 Q. You've indicated that you think that the Staff relied
22 on data or calculations that were unrealistic or
23 outliers, as you just indicated, on the dividend piece.
24 What, in terms of an overall approach, how does one

{WITNESS: MOUL}

1 deal with that in running these calculations? Do you
2 use all of the data that you have or what is your way
3 of dealing with that?

4 A. Well, it's the role that judgment plays in applying
5 these methods. As I said, since the cost of equity is
6 not directly observable, a considerable amount of
7 judgment needs to be applied to solve the equations
8 represented by these models to come up with an answer.
9 And, I will agree with Staff, because I, myself, in the
10 preparation of my analysis, have looked at all the
11 variables. I would never urge the Commission to ignore
12 any of the valid variables that investors would look at
13 to come up with a growth rate.

14 But what you need to do, after you look
15 at the full array of variables, you have to think to
16 yourself and say "Well, what is the most plausible
17 growth rate from this broad array?" And, when you look
18 at the numbers, dividends per share really doesn't fit,
19 and shouldn't receive the type of emphasis that
20 earnings per share growth should receive, based both on
21 the theory of the model and on the empirical evidence.

22 Q. Okay. In your testimony, you describe the leverage
23 adjustment that you make for each of the methodologies.
24 Could you summarize what that is and why you think it's

{WITNESS: MOUL}

1 necessary?

2 A. Yes. I spent a lot of time on this in both my direct
3 and rebuttal testimony, and I really need to boil it
4 down in as simpler terms as possible. What it comes
5 down to is this: When you inject borrowed funds into a
6 firm's capital structure, and I use the term sort of
7 loosely because that also accounts for preferred stock,
8 because it has a fixed cost. But, when you inject
9 fixed cost capital into a firm's capital structure,
10 over top the ownership interest in the Company, which
11 is the common equity, it increases the financial risk
12 to the firm. And, quite simply, and perhaps this is
13 sort of a shame the way the testimony is structured,
14 but it's a very simple concept. What it says is that
15 your cost of equity is equal to the cost of capital as
16 if you had 100 percent equity, you had no borrowed
17 funds in your capital structure, plus compensation for
18 the additional risk for debt, compensation for the
19 additional risk of preferred stock. And, you solve for
20 that with the book value capital structure to come up
21 with the cost of equity that you'll set in this case,
22 being mindful of the fact that there's a totally
23 different set of ratios out there that investors look
24 at when they price a stock using market values. And,

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1 it's a rather simple process. It's essentially
2 unlevering the cost of equity and relevering the cost
3 of equity for the actual debt and equity we use to set
4 the weighted average cost of capital in a rate case.

5 Q. You discussed earlier the extreme volatility that the
6 marketplace is seeing at the moment. And, if you would
7 just summarize how, in your view, the models take
8 account of that and whether they reflect it?

9 A. Well, certainly, DCF doesn't. There is an attempt in
10 the CAPM, through the calculation of beta, to deal with
11 the very -- well, actually, volatility. But,
12 certainly, DCF does not deal with it. And, I've got a
13 number of tables, graphs, charts in my rebuttal dealing
14 with the VIX, which is the widely recognized measure of
15 the stock market volatility that's traded on the
16 Chicago Board Options Exchange, I believe it is. And,
17 it's been around since the beginning of the '90s. It's
18 for a very long period of time traded within a
19 relatively narrow range. And, then, when this credit
20 crisis hit, which turned into an overall financial
21 crisis, I mean, it just went wild. I mean, it blew way
22 out of the bands that it had traded at for over 15
23 years. And, that is a clear demonstration of how much
24 volatility and increased risk exists today, as compared

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1 to before, and that increased risk investors require
2 compensation for.

3 Q. And, finally, I want to direct your attention to Page 9
4 of your testimony, and you'll see you've included a
5 list of returns on equity set in other jurisdictions in
6 2008.

7 A. That's on 33?

8 Q. That is in Exhibit 33, yes.

9 A. Yes, I have that.

10 Q. Okay. And, what can you determine by looking at that
11 and comparing the return on equity that the Staff has
12 recommended in this case, what does that tell you?

13 A. Well, what it tells to me is that, based upon both gas
14 -- all energy decisions, both gas and electric and gas
15 alone, that investors are expecting returns in rate
16 case decisions to be in the mid tens, 10, you know,
17 somewhere between the 10.4/10.5 area.

18 Q. Well, and then, if you look at Page 10, what do you see
19 if you compare the Staff's recommendation to returns
20 that you cite there from this Commission?

21 A. Well, I came to two conclusions there. One is that,
22 even if you don't adjust for what has -- all that has
23 happened since the Commission made these determinations
24 way back when, and you compare what the Commission has

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1 accepted and what the Staff proposed in this case, it's
2 way different. The Commission has been accepting
3 higher numbers. But I think the more important thing
4 is, a lot has changed since the Commission made its
5 determination in these older cases. And, if we update
6 those decisions for increased interest rates since that
7 time, you would find that, even those decisions, on an
8 updated basis, would be up in the mid tens today.

9 MR. CAMERINO: Thank you. That
10 concludes my direct examination.

11 CHAIRMAN GETZ: Mr. Feltes?

12 MR. FELTES: Mr. Chairman, we have no
13 questions for Mr. Moul.

14 CHAIRMAN GETZ: Ms. Hatfield.

15 MS. HATFIELD: One moment please.

16 (Atty. Hatfield conferring with OCA
17 staff.)

18 MS. HATFIELD: Mr. Chairman, due to the
19 number of questions that the OCA has, it might be
20 appropriate if the Commission wishes to take a lunch
21 recess at this time. I don't know if you intend to do
22 that today with the weather or not.

23 CHAIRMAN GETZ: Well, let's go off the
24 record for a second, talk about planning here for the

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1 remainder of the day.

2 (Brief off-the-record discussion
3 ensued.)

4 CHAIRMAN GETZ: All right. Let's go
5 back on the record. All right. We're going to break,
6 take the lunch recess. It's 12:20 now. Let's try to
7 resume at about 1:30. We are recessed for lunch. Thank
8 you.

9 (Whereupon the lunch recess was taken at
10 12:20 p.m. and the hearing reconvened at
11 1:41 p.m.)

12 CHAIRMAN GETZ: All right. Good
13 afternoon. We're back on the record in DG 08-009. And,
14 turning to Ms. Hollenberg, apparently.

15 MS. HOLLENBERG: Thank you. Well, I
16 have good news and bad news. The good news is I don't
17 have as many questions as Attorney Hatfield estimated
18 earlier; the bad news is I actually have to ask the
19 questions. Mr. Moul, good afternoon. How are you today?

20 WITNESS MOUL: Good. Thank you.

21 MS. HOLLENBERG: Good. I would just
22 like to ask you to identify some responses that you
23 provided on behalf of the Company to data requests
24 propounded by the Office of Consumer Advocate in this

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1 proceeding. And, I believe you have these questions
2 before you. And, I would ask the Commission at this time
3 if these responses to data requests could be marked for
4 the record as the next three consecutive exhibits.

5 **CROSS-EXAMINATION**

6 BY MS. HOLLENBERG:

7 Q. I believe you have before you your response to OCA
8 1-62. Do you see that?

9 A. I do.

10 Q. Can you confirm for me that this is a response that you
11 provided on behalf of the Company?

12 A. Yes, I prepared this response.

13 Q. And, it's true and accurate to the best of your
14 knowledge and belief?

15 A. Yes.

16 Q. Thank you. Turning to the next question, which is OCA
17 1-67. Do you see this response?

18 A. I do.

19 Q. And, you provided this on behalf of the Company?

20 A. Yes, ma'am.

21 Q. And, this is true and accurate to the best of your
22 knowledge and belief?

23 A. It was correct at the time it was prepared, yes.

24 Q. And, could you -- could you give us an update, if there

{WITNESS: MOUL}

1 is an update to this response please.

2 A. I wish I could, but I can't. Because I'm just reading
3 the response, and it talks about particular plans in
4 the next two to three years, and it was dated "May 21".
5 I really haven't discussed this matter further with the
6 Company. And, I couldn't tell you whether their plans
7 have changed or not. I'd have to get back to you on
8 that.

9 MS. HOLLENBERG: Okay. I guess I would
10 ask then, in light of the fact that under the Commission's
11 rules data responses are required to be updated, if
12 necessary, that the Company update this if this is
13 necessary.

14 MR. CAMERINO: Maybe I can suggest, we
15 could do it that way, but Mr. Stavropoulos will be here
16 tomorrow, and we could see if he is able to answer the
17 question on the record, rather than providing another
18 document.

19 MS. HOLLENBERG: I'm happy to follow up
20 with him tomorrow. Thank you.

21 BY MS. HOLLENBERG:

22 Q. And, if I could ask you to look at the next document,
23 which is labeled "OCA 2-23". And, do you agree that
24 this is your response on behalf of the Company?

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1 A. Yes, it is.

2 Q. And, is it true and accurate to the best of your
3 knowledge and belief?

4 A. Yes.

5 Q. Thank you.

6 CHAIRMAN GETZ: Okay. We'll mark for
7 identification as "Exhibits 44", "45", and "46" National
8 Grid responses to OCA Questions 1-62, 1-67, and 2-23.

9 (The documents, as described, were
10 herewith marked as **Exhibits 44, 45, and**
11 **46**, respectively, for identification.)

12 MS. HOLLENBERG: Thank you. I just have
13 a couple of questions.

14 BY MS. HOLLENBERG:

15 Q. You testified in rebuttal and today about ROE decisions
16 in other jurisdictions.

17 A. I did.

18 Q. And, would you then agree that it's appropriate for the
19 Commission to look at other decisions on ROE in
20 assessing the reasonableness of the ROE recommendations
21 in this case?

22 A. I do.

23 Q. Thank you. And, you also testified in rebuttal, and
24 again this morning, about the volatility of the market.

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1 Do you agree with that?

2 A. Yes, that's correct.

3 Q. And about the VIX index?

4 A. Yes.

5 Q. Do you agree that this index measures the implied
6 volatility of the S&P 500 index options?

7 A. Yes.

8 Q. And, that it does not measure the volatility of public
9 utility equity?

10 A. I disagree with that, because S&P Public Utility Index
11 is part of the S&P 500. So, to the extent that
12 utilities are embedded in the 500, there is some
13 measurement in that regard.

14 Q. Okay. I guess I should have asked it in a different
15 way. Would you agree that there are no measures,
16 specific measures explicitly about the volatility of
17 public utility equity?

18 A. Yes, there is none that I know of.

19 MS. HOLLENBERG: Okay. Thank you. If I
20 could have a moment please.

21 (Atty. Hollenberg conferring with OCA
22 staff.)

23 MS. HOLLENBERG: I don't have any other
24 questions. Thank you very much, Mr. Moul.

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{WITNESS: MOUL}

1 WITNESS MOUL: You're welcome.

2 CHAIRMAN GETZ: Mr. Damon.

3 MR. DAMON: Thank you. Before I start
4 asking Mr. Moul the questions, I would just want to note
5 for the record that Staff and the Company have indeed
6 finalized the revenue requirement for delivery service.
7 So, that one hanging matter that was alluded to this
8 morning I think is solved.

9 CHAIRMAN GETZ: Thank you.

10 MR. DAMON: Good afternoon, Mr. Moul.

11 WITNESS MOUL: Good afternoon.

12 BY MR. DAMON:

13 Q. I'd like to ask you a few follow-ups on your summary of
14 your testimony this morning. And, at the end of your
15 testimony you were talking about the New Hampshire
16 decisions on Page 10 of your rebuttal testimony. And,
17 you mentioned that "a lot has changed since the older
18 cases were decided", and you alluded to the increase in
19 interest rates since then. And, could you restate or
20 restate what significance an increased interest rate
21 would have on what is the appropriate ROE for this
22 case?

23 A. Well, you're quite correct. Interest rates and the
24 change in the level of interest rates would be one

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1 measure to use to place into current context older
2 decisions. So, one of the things I looked at in the
3 rebuttal testimony was to index more or less those
4 older decisions for changes in interest rates. And, as
5 interest rates go up, the returns would go up. And, if
6 they went down, the converse would be true. But, of
7 course, there's other things that impact that as well,
8 and we talked about the volatility, which is greater
9 than existed when these older cases were decided.

10 Q. Right. And, I'm afraid, in my notes, I didn't write it
11 down carefully enough, but you had said something about
12 the effect of these increased interest rates on what is
13 an appropriate ROE, and I think you alluded to a
14 number. Do you recall that?

15 A. Well, I don't know, well, maybe I did say something in
16 the summary about a number. Now, there is a number on
17 Page 11 of my testimony.

18 Q. Well, I'm not sure it was in your testimony exactly. I
19 do remember from this morning's, I wrote it down in my
20 notes, and I'm just trying to recreate what that is.

21 A. Well, let me just look back at my notes, I don't know
22 if I volunteered a number or not to -- there certainly
23 was a number in the testimony.

24 Q. Well, if it's difficult, I could ask, with the

{WITNESS: MOUL}

1 Chairman's permission, the Clerk to read back that
2 answer.

3 A. I think I referred to something along the lines of "mid
4 tens". I don't know if I was any more specific than
5 that, as to a number.

6 Q. Okay. And, so, I do want to just make sure I
7 understood what you said. You said that the increased
8 interest rates would suggest that what, "mid tens are
9 reasonable", is that what you said?

10 A. Yes. If you were to update the old Commission orders,
11 using that as a benchmark.

12 Q. Okay. Another follow-up question is, you do not favor
13 using dividends per share as a measure of the growth
14 rate in a DCF calculation, is that right?

15 A. Yes.

16 Q. But what is the growth factor that is placed into the
17 equation that expresses the DCF calculation?

18 A. Well, it depends on how you define the DCF model.
19 There is a form of the model that is the discount of an
20 endless stream of growing dividends that is discounted
21 back to current price to explain the current price.
22 That's one form of the model. The other form is the
23 yield plus the capital gains or price appreciation that
24 investors realize to provide their total return

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1 expectation.

2 So, it depends on how you define the
3 model. I agree with you that what you're suggesting is
4 one form of the model, but there are others.

5 Q. Right. Because, in recent days, I have re-read a
6 Commission order involving Public Service Company a few
7 years ago. And, as I recall, the way the Commission
8 described the "G" in the formula, it was an expected
9 dividends per share.

10 A. That's one way to look at the model. But that's not
11 the way the investors price stocks.

12 Q. Okay. But that is one way to look at it?

13 A. That's one way to look at it. But I don't believe
14 investors price stocks that way.

15 Q. Okay. Another point that you made this morning was
16 that you mentioned that, in your view, "the DCF method
17 is less reliable". And that, as proof of that, when
18 you look at the numbers that you have obtained from
19 both the DCF method, the RPM, Risk Premium method, and
20 the CAPM method, that it's clear that the 10.55 that
21 you got for DCF is well below the other two results.
22 But what is the difference between the DCF result and
23 RPM?

24 A. Well, the difference is the DCF produced 10.55 and the

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1 Risk Premium approach produced 12.71.

2 Q. And, if you take -- if you subtract that number, what
3 is it?

4 A. Oh. It's 2.15 percent.

5 Q. And, the difference between the 12.71 in the Risk
6 Premium method and the 13.91 percent in the CAPM
7 method, how much -- what's the difference there?

8 A. 1.20 percent.

9 Q. Now, in your updated December 15th testimony, you
10 relied on some historical information. And, as I
11 understand it, you used the Value Line information from
12 September for your CAPM estimate. Is that correct?

13 A. September 12th I believe was the date. It's the source
14 of information on my Attachment PRM-23.

15 Q. But it is true, is it not, that there was available
16 more recent information than that as of December 15th?

17 A. Yes. And, that information became available after this
18 was prepared. That was not available to me when we
19 prepared the rebuttal. So, I used the most recent data
20 available when the rebuttal was put together.

21 MR. CAMERINO: Mr. Moul, just at the end
22 of some of your statements, your voice is trailing off a
23 little. If you could just keep it up for the
24 stenographer.

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1 BY MR. DAMON:

2 Q. Okay. And, again, this morning you testified about the
3 information that you showed on Page 10 of your
4 rebuttal, that is the New Hampshire rate case decisions
5 regarding cost of equities. And, it's true, is it not,
6 that the authorized return on equity ordered in those
7 cases all came as a result of a settlement agreement,
8 is that true?

9 A. Yes, that's what's shown on that schedule or on that
10 page.

11 Q. Mr. Moul, is it fair to say that the lion share of your
12 consulting business is presenting rate of return
13 testimony on behalf of utilities around the Company --
14 around the country?

15 A. Yes, I present more rate of return testimony for
16 investor-owned utilities than other types of clients I
17 have. But I do have other types of clients.

18 Q. And, you've been representing utilities for a long
19 time?

20 A. About 35 years.

21 Q. And, as I understand it, you presented testimony to the
22 Commission on behalf of Northern Utilities back in DG
23 01-182?

24 A. I couldn't confirm that particular docket, but I have

{WITNESS: MOUL}

1 testified for Northern Utilities in the past, correct.

2 Q. And, when I went and looked at your testimony in that
3 docket, I believe you recommended a rate of return on
4 common equity of 13 percent?

5 A. I can accept that. I haven't look at that testimony in
6 a long time.

7 Q. And, I'm not sure that that case ended up on your list
8 on Page 10. But would you be willing to accept it
9 subject to check that Northern ended up settling for
10 9.67 percent return on equity?

11 A. I couldn't, I'll accept that subject to check, I just
12 really have no recollection of that. I'm sure that
13 case goes back at least five years or more.

14 Q. Okay. In looking at your chart of certain return on
15 equity decisions that you have on Page 9 of your
16 updated testimony, how did you choose or what
17 information did you choose to include on this table?

18 A. Well, I included the information on this table that I
19 believe to be relevant insofar as the return on equity
20 determination goes. I mean, there's other -- other
21 information available about these cases. But I
22 selected what I believe to be relevant concerning the
23 subject of rate of return on equity.

24 Q. Okay. But is the information on this sheet drawn from

{WITNESS: MOUL}

1 a larger document?

2 A. Yes.

3 Q. Okay. And, I'd like to show you a document. And, this
4 is your response, I believe, to Staff 5-1. And, ask
5 you if your response is that document?

6 (Atty. Damon handing document to the
7 Witness.)

8 **BY THE WITNESS:**

9 A. Yes. This looks to be the response, correct. Yes.

10 MR. DAMON: Okay. Thank you. You can
11 keep that.

12 WITNESS MOUL: Okay. Thanks.

13 MR. DAMON: I'd like to offer this as an
14 exhibit. I think that everybody should have a copy.

15 MR. CAMERINO: Actually, if you've got
16 an extra one.

17 (Atty. Damon distributing documents.)

18 CHAIRMAN GETZ: Okay. We'll mark for
19 identification as "Exhibit Number 47" National Grid's
20 response to Staff Question 5-1.

21 (The document, as described, was
22 herewith marked as **Exhibit 47** for
23 identification.)

24 BY MR. DAMON:

{DG 08-009} [Day I] {01-28-09}

{WITNESS: MOUL}

1 Q. Okay. So, could you just describe how you went from
2 this larger data set to the shorter listing of
3 information that you have in your rebuttal testimony?

4 A. Sure. One of the initial things I did was to look at
5 the most recent decisions, beginning with May 27, 2008.
6 So, there's likely, as a matter of fact, we know
7 there's decisions or there's cases listed on the larger
8 document that predate that. Then, what I did, I
9 eliminated some of the other -- well, they're important
10 items, but it seemed to me that they distracted from
11 the focus of what I was trying to present in the
12 testimony. So, I got rid of things like common equity
13 ratios and the amount of the rate base and other
14 information, while they're important to a rate case
15 determination and outcome, really didn't lend
16 themselves to the type of information I was trying to
17 portray on Page 10 -- or, Page 9, I'm sorry.

18 Q. Would you agree that before you can assess the
19 significance of a particular number in a rate case,
20 such as return on equity, it is important for all the
21 other information in the case, such as size of the rate
22 base, capital structure, operating expenses, all those
23 other pieces of information also are important in
24 determining what the true situation in these rate cases

{WITNESS: MOUL}

1 is?

2 A. I would agree with that, sure. And, there's other
3 elements that enter into a rate case decision that
4 aren't even revealed by those types of numbers.
5 Commissions often look at the quality of the management
6 or whether sales -- average sale per customer is
7 increasing, declining. There's a whole host of factors
8 that enter into the equity return determination, other
9 than what the O&M is and the rate base and capital
10 structure. But, clearly, they all enter into that type
11 of determination.

12 Q. The Commission, of course, regulates a number of
13 investor-owned utilities in the electric industry in
14 New Hampshire, as well as natural gas industries --
15 natural gas utilities. And, have you studied the
16 health of those utilities in New Hampshire?

17 A. Not specifically. I'm aware of identities of the other
18 utilities in the state, but I haven't conducted an
19 in-depth financial analysis of the condition of those
20 utilities for the purpose of this case. I mean, I
21 study utilities all the time. And, I'm aware of
22 generally what's going on in this region when it comes
23 to the electric and gas companies. But I haven't
24 conducted the analysis that you're asking about.

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{WITNESS: MOUL}

1 Q. Okay. One decision that is not on your list, and it
2 wouldn't have been because it wasn't decided at the
3 time your answer was made, but there was a very recent
4 decision in Connecticut regarding United Illuminating
5 Company. And, that's only a draft decision that was
6 issued last week. And, as I understand it, the ROE
7 granted in that case was 8.75 percent.

8 A. Well, you're right about it being a draft decision.
9 That is not the final order of the Commission. If
10 you're familiar with the way the process works in
11 Connecticut, after the end of the hearing process, a
12 draft decision is put out there, essentially prepared
13 by the Staff, but has not been ruled on by the
14 Commission. And, after the draft decision comes out,
15 the parties to the case, the Company and the Consumer
16 -- well, maybe it's People's Counsel, I forget what the
17 Consumer Advocate in Connecticut is known as, and the
18 intervenors all have an opportunity to comment on the
19 draft decision. So, that's not final.

20 Q. Right. As I understand it, the Company itself had
21 proposed 9.75 percent.

22 A. Well, I don't --

23 MR. CAMERINO: I'm just going to object
24 at this point, because we don't have this information in

{WITNESS: MOUL}

1 the record. We've got facts coming in from Mr. Damon on a
2 case where we don't even have a final order. I know we
3 don't normally follow the rules of evidence here, but I
4 think there has to be some probative value of information
5 that's being proffered, and here it's not a final order.
6 And, I'm concerned we're going to get a lot of information
7 in the record that nobody has had a chance to review, that
8 no witness is sponsoring, and then we're going to see it
9 again in the briefs.

10 CHAIRMAN GETZ: Well, it seems to me,
11 Mr. Camerino, your issue is more to the weight we should
12 give it, rather than to the admissibility. If there's a
13 draft order, it seems we could take administrative notice
14 of that, as we could of any other kind of order in any of
15 the decisions that are noted in the testimony.

16 MR. CAMERINO: No, I think it does go to
17 admissibility, actually. And, I know the Commission
18 sometimes even takes newspaper articles into evidence, so
19 the standard is fairly low. But I didn't object when Mr.
20 Damon referred to the "8.75". But now we're going into
21 the position of the parties. And, I think that's where we
22 really get into something that is objectionable in terms
23 of admissibility. And, I think we should just leave it
24 with what the Hearing Examiner ruled, and we've had

{WITNESS: MOUL}

1 testimony that it hasn't been reviewed by the Commission
2 yet.

3 MR. DAMON: Well, the Company has made a
4 point in its rebuttal testimony, and again this morning in
5 his summary, of the relevance and importance of the
6 Commission's understanding of what ROEs have been granted
7 in other states. And, this is a decision, and it is a
8 draft decision, and I can provide a copy of it, it's a
9 very lengthy decision, happy to do that, and let it have
10 whatever weight the Commission wants to give it. But it
11 does reflect other numbers that are inconsistent with the
12 tens that appear on Page 9 of the rebuttal testimony.

13 CHAIRMAN GETZ: Well, we're going to
14 allow the admission of this Draft Order. And, let's just
15 save Exhibit 48 for the Draft Order from the Connecticut
16 -- it's a United Illuminating case?

17 MR. DAMON: Yes.

18 CHAIRMAN GETZ: And, we'll give it the
19 weight we deem appropriate in our deliberations.

20 **(Exhibit 48 reserved)**

21 MR. DAMON: I can even give you, if
22 you'd like, probably an order number.

23 MR. CAMERINO: I'd like to ask that that
24 be provided to us this afternoon, an actual copy of that

{WITNESS: MOUL}

1 order, because we may have questions about it, we may not.
2 But it seems to me that something of that magnitude we're
3 entitled to question witnesses on and not be provided with
4 at this late date.

5 MR. DAMON: Yes, it's an order dated
6 January 20, 2009, in Docket Number 08-07-04.

7 CHAIRMAN GETZ: And, you can provide a
8 copy to Mr. Camerino?

9 MR. DAMON: Sure. Yes. Not right now,
10 but soon.

11 CHAIRMAN GETZ: Thank you.

12 BY MR. DAMON:

13 Q. On Page 7 of your rebuttal testimony, you referred to a
14 "study by the American Gas Foundation". Is that right?

15 A. Yes.

16 Q. Yes. And, that's an organization that's overseen by
17 representatives of gas interests, is it not?

18 A. Well, I think it's affiliated some way with the
19 American Gas Association.

20 Q. Right. Which -- And, the American Gas Association
21 represents industry interests?

22 A. Yes, it's a trade group.

23 Q. Yes. In your initial testimony, Mr. Moul, on Page 6,
24 Lines 1 to 3, and that's -- when I'm referring to page

{WITNESS: MOUL}

1 numbers here, I'm referring to the page numbers that
2 are shown on the lower right-hand corner, not the one
3 in the middle.

4 A. You're in Exhibit --

5 MS. HOLLENBERG: Nine.

6 BY MR. DAMON:

7 Q. Exhibit 9.

8 A. Nine, I'm sorry. Page what? What was that again, I'm
9 sorry?

10 Q. Page -- Well, I take that back. Actually, it is 5A,
11 which is a new page.

12 A. That was the 6 that got omitted that we submitted later
13 we identified as 5A?

14 Q. Yes.

15 A. Okay. I have that.

16 Q. Okay.

17 MR. CAMERINO: Now, what -- Mr. Damon is
18 showing me to not have kept my word, which was I was going
19 to supply those two pages to the Commission --

20 CMSR. BELOW: I found my copy.

21 CHAIRMAN GETZ: We're all set.

22 MR. CAMERINO: Okay. Sorry.

23 BY MR. DAMON:

24 Q. Well, in any case, you stated there that you believe

{WITNESS: MOUL}

1 that the "other methods", i.e. RP, CAPM, and Comparable
2 Earnings, "are more reliable indicators of the cost of
3 common equity in the present environment." Is that --
4 Is your position still the same, that that is true
5 today?

6 A. Yes.

7 Q. But it is true, is it not, that the DCF method, like
8 the other methods for estimating return on equity, is
9 used in a variety of economic situations, both good and
10 bad?

11 A. I agree with that. But, in most instances where DCF is
12 used, at least in the investment community, it's
13 usually compared with implied returns that are derived
14 from other models.

15 Q. Okay. And, a question also on comparable earnings.
16 You did do the calculations to come up with an estimate
17 based on comparable earnings. But, as I understand it,
18 your recommendation, both in your initial and updated
19 testimony, is not based on comparable earning, is that
20 right?

21 A. That is correct.

22 Q. And, you alluded to shortcomings in the various
23 methodologies this morning. And, in particular, I
24 think you acknowledge that there are shortcomings in

{WITNESS: MOUL}

1 the Risk Premium, CAPM, and Comparable Earnings
2 methods, correct?

3 A. I agree with that.

4 Q. Okay. And, in fact, you answered a data request put to
5 you by the OCA on that point.

6 (Atty. Damon showing document to the
7 Witness.)

8 **BY THE WITNESS:**

9 A. Sure, I put this together.

10 MR. DAMON: Okay. I've shown you a
11 document, which is your response to OCA 1-65. And, I
12 would ask that this be marked for identification.

13 CHAIRMAN GETZ: It will be marked for
14 identification as "Exhibit Number 49".

15 (The document, as described, was
16 herewith marked as **Exhibit 49** for
17 identification.)

18 MR. DAMON: Did I leave you with a --
19 I'm sorry, I apologize.

20 (Atty. Damon handing document to the
21 Witness.)

22 BY MR. DAMON:

23 Q. The question was answered -- was asked in terms of
24 "shortcomings", and you have perhaps rephrased it as

{WITNESS: MOUL}

1 listing "restrictive assumptions". But you mean the
2 same thing basically. A "restrictive assumption" is a
3 "shortcoming" basically?

4 A. Sure, by definition it is.

5 Q. Okay. As I understand it, too, your updated estimates
6 are not based on any financial weakness of National
7 Grid as a whole, are they?

8 A. I don't think I understand that question.

9 Q. Well, when you make your estimates, do you look at the
10 Company of which EnergyNorth is a part, to get an idea
11 of the relative financial health of that company?

12 A. Well, I'm not trying to be difficult in responding to
13 your question, but I didn't look at the larger National
14 Grid USA in any way. But I did provide you, in
15 Attachment Number 11, a historical analysis of the
16 performance of what used to be called, I guess still
17 is, "EnergyNorth Natural Gas, Inc.", doing business as
18 National Grid. And, I did go through in my direct
19 testimony and conducted what I labeled a fairly
20 comprehensive fundamental analysis that was beginning
21 on Page 11 of my direct testimony. And, I just
22 compared all types of factors between, in this case,
23 EnergyNorth and my proxy group.

24 Q. Okay. So, the Page 11 you're talking about is

{WITNESS: MOUL}

1 Exhibit 9, right?

2 A. Correct. I'm sorry, yes.

3 Q. Okay.

4 A. And, actually, it would really be Page 10 under that
5 other numbering scheme.

6 Q. And, did you review the November 20, 2008 National
7 Grid, PLC six month report for the period ended
8 November 30, 2008?

9 A. If I did, I don't recall. And, I'm not sure I
10 understand, when you say "National Grid", that's the
11 New Hampshire company or --

12 Q. No, it's the big company.

13 A. Oh. No, I didn't. No.

14 Q. Okay. I'd like to turn your attention now to your DCF
15 estimate. And, I'd like to try to tease out of your
16 overall estimate, and I think -- I think it's helpful
17 just for the record to go back and see if we can get
18 this. But what would be your estimate, under DCF,
19 excluding flotation and leverage adjustments that you
20 applied, in both your initial and updated testimony?

21 A. Excluding the leverage adjustment/flotation cost, the
22 update would provide 9.77 percent.

23 Q. Okay. And, do you know what it is for your initial
24 testimony?

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{WITNESS: MOUL}

1 A. Sure. 9.11 percent.

2 Q. Again, this morning, in your summary, and in your
3 rebuttal testimony on Page 3, you talk about the
4 "unprecedented turmoil in the financial markets during
5 the last six months." So, if I'm calculating that
6 right, you're actually talking about the events since
7 about June 2008, is that right?

8 A. Roughly. Things started -- well, when you think back,
9 the whole thing began in August of 2007 with the
10 meltdown in the subprime mortgage market, or that's
11 when that began. And, things went along, and people
12 were concerned. And, then, on March 16th of last year,
13 in 2008, we had the Bear Stearns rescue. And, then, a
14 period of time went on, and then we just had this rapid
15 fire sequence of events that just roiled the capital
16 markets. And, I mean, there was IndyMac failing, you
17 had a "run on the bank", and all those types of things.

18 Q. Sure. Now, in your testimony, the specific aspect of
19 "turmoil" that you discuss at some length is volatility
20 in the stock markets or in the markets generally,
21 right?

22 A. Yes.

23 Q. And, is the VIX, is that a stock market indicator or
24 does that take into account bonds, volatility of the

{WITNESS: MOUL}

1 bonds?

2 A. It would be -- I'm sorry, it would be for stocks.

3 Q. Stocks. Would you agree with me that the volatility
4 associated with the gas utilities in your proxy group
5 could be significantly different from the volatility
6 present in the market as a whole?

7 A. Could be. I haven't looked at that, but it could be.

8 Q. Also, as I understand it, you stress the importance of
9 earnings growth rate forecast in determining the growth
10 component. And, as I understand it, you rely, at least
11 in large part, on a paper by Myron Gordon as support
12 for your way of approaching that?

13 A. That's part of it. I think I explained this morning in
14 my opening remarks that the parameters of the model
15 also require that. But I think I mentioned in my
16 opening remarks about the empirical evidence that
17 supports that notion, and that was the Gordon article
18 that you're referring to.

19 Q. Okay. And, I'd like to show you an answer that you
20 gave asking for a copy of that. And, ask if that is
21 the article that you're speaking about?

22 A. Yes, it is.

23 Q. Okay. I'll leave you with that copy.

24 A. Okay. Thanks.

{WITNESS: MOUL}

1 MR. DAMON: And, I would ask that this
2 document, which is the Company's response, Mr. Moul's
3 response to Staff 1-136 be marked for identification.

4 CHAIRMAN GETZ: It will be marked for
5 identification as "Exhibit Number 50".

6 (The document, as described, was
7 herewith marked as **Exhibit 50** for
8 identification.)

9 (Atty. Damon distributing documents.)

10 BY MR. DAMON:

11 Q. I'm not going to go through all the math involved that
12 he refers to there, but I did want to draw your
13 attention to the conclusion on the last page of that
14 exhibit. And, I'll just read it, what I think is the
15 important part that I want to draw out for purposes of
16 my question. The conclusion is: "We have compared the
17 accuracy of four methods for estimating the growth
18 component of the discounted cash flow yield on a share,
19 past growth rate in earnings (KEGR), past growth rate
20 in dividends (KDGR), past retention growth rate (KBRG),
21 and forecasts of growth by security analysts (KFRG)."
22 So, as I understand it, that would be a statement of
23 the various -- or, the accuracy of the four methods
24 that he -- that they looked at in this paper?

{WITNESS: MOUL}

1 A. That's right.

2 Q. Yes. And, this paper does not, in and of itself,
3 compare the accuracy of forecast of dividend growth
4 rates and book value growth rates to the four other
5 methods that are specifically listed there, is that
6 true?

7 A. Well, that's right. And, I believe the reason that is
8 is because there are no other consensus forecasts of
9 those variables, dividends and book value, that would
10 be comparable to the IBES or First Call consensus
11 forecasts of earnings per share growth. Because the
12 only other service that provides forecasts of dividends
13 and book value is Value Line. And, Value Line is the
14 result of a single analyst. And, what Gordon was
15 trying to look at was whether a consensus estimate of
16 many analysts does a better job in explaining the
17 growth rate in the DCF model.

18 Q. Right.

19 A. And, what you wouldn't want to do is test that against
20 the growth rate and dividends or book value from just a
21 single analyst. I mean, you're looking at a consensus
22 here, versus growth rates from Value Line, in those
23 other two variables you asked me about, that are only
24 from a single analyst.

{WITNESS: MOUL}

- 1 Q. Okay. But the paper does not explicitly support the
2 use of earnings growth rate forecasts as being
3 preferable compared to forecasts of dividend growth
4 rates and book value growth rate forecasts, does it?
- 5 A. Well, that's right, because he didn't test for that,
6 because there are no consensus forecasts of dividend
7 growth rates or book value per share growth rates. The
8 only consensus forecasts that are out there are for
9 earnings growth rates. Because, to look at the other
10 two variables, you only have a single source, which is
11 Value Line, and that's not a consensus.
- 12 Q. On Page 16 of your rebuttal, at Lines 12 to 14, I think
13 you're suggesting there that "book value per share
14 growth rates are inapplicable because stocks do not
15 trade at constant market-to-book ratios." Am I reading
16 that right?
- 17 A. That's right.
- 18 Q. And, on the previous page, that is on Page 15, Lines 17
19 to 18, you refer to the "constant price-earnings
20 multiple assumption of the DCF". That's correct,
21 right?
- 22 A. Yes, that's a necessary assumption of the DCF model.
23 Uh-huh.
- 24 Q. But, in reality, of course, the price-earnings ratio

{WITNESS: MOUL}

1 doesn't remain constant over time either, does it?

2 A. Well, exactly. And, that's one of the major
3 infirmities of the DCF model. That's why the DCF model
4 often produces results that don't capture the
5 investors' full expectation of the returns they expect
6 in the marketplace, because, just like you said,
7 price-earnings multiples do change, and, in fact,
8 change virtually daily.

9 Q. Yes. But, despite that infirmity, I mean, the DCF
10 method is commonly applied in rate cases around the
11 country?

12 A. I agree with that.

13 Q. Okay. I have a few questions about the proposed
14 leverage adjustment as well.

15 MR. CAMERINO: Can I just interrupt for
16 one second for just one record clarification. We can come
17 back to this when we're off the record. But my copy of
18 Staff 1-136 has additional pages, and it looks like the
19 one that Mr. Damon handed out may be missing some
20 material. So, if we can check on that off the record and
21 then provide a complete copy, I'd appreciate that.

22 CHAIRMAN GETZ: Our copy appears to end
23 abruptly as well.

24 MR. DAMON: Okay. I will ask someone to

{WITNESS: MOUL}

1 look into it.

2 CMSR. BELOW: It looks like it was
3 two-sided, and we only got half the sides.

4 MR. DAMON: Oh. Oh, yes. Absolutely,
5 we'll fix that. Yes.

6 BY MR. DAMON:

7 Q. Okay. Going back to the subject of "leverage
8 adjustment", it's true, is it not, that, as a general
9 matter and in general, utilities have lower business
10 risks than other unregulated companies -- than
11 unregulated companies?

12 A. I agree with that, but that has nothing to do with
13 leverage adjustment.

14 Q. And, on Page 24, Lines 22 to 25 of your direct
15 testimony, that's Exhibit 9, --

16 A. I'm sorry, what were those line numbers again please?

17 Q. Twenty-two to twenty-five.

18 A. Okay. I'm with you.

19 Q. You say "The leverage adjustment I use deals with the
20 issue of financial risk and is not intended to
21 transform the DCF result to a book market value return
22 through a market-to-book adjustment." Do you see that
23 down there?

24 A. Yes. I think what I said was "result to a book value

{WITNESS: MOUL}

1 return through".

2 Q. Right.

3 CMSR. BELOW: Excuse me, what page are
4 you on?

5 MR. DAMON: It's Page 24, that's the
6 number in the lower right-hand margin, not the one in the
7 middle.

8 CMSR. BELOW: Okay.

9 BY MR. DAMON:

10 Q. Okay. And, I think you go on to talk about that in
11 certain other ways later on, --

12 A. Yes.

13 Q. -- but just to get us oriented, I wanted just to start
14 out there. Now, I believe on Page 67 of your initial
15 testimony, that's Exhibit 9, you explain how you
16 calculate the leverage adjustment. And, there's, on
17 Page 67, there's two equations in Line 1, with letters,
18 in Line 2 I believe there are numbers substituted for
19 the letters in the equation in Line 1. And, similarly,
20 in Line 9, there's an equation with letters, and
21 there's, in Line 10, numbers that are substituted for
22 those letters in the equation in Line 9.

23 A. Yes, that's correct.

24 Q. Okay. Now, the leverage adjustment for your updated

{WITNESS: MOUL}

1 estimates is a little different from what you
2 calculated initially. What is the leverage adjustment
3 that you've included in your updated testimony?

4 A. The numerical value for the leverage adjustment in the
5 update is 0.57 percent. And, that compares with
6 0.54 percent in the original testimony.

7 Q. Okay. And, you get a slightly higher number, but
8 that's because the input numbers changed a little bit?

9 A. Sure. The formula is dynamic. I mean, it's designed
10 to deal with changes in the capital markets. The
11 formula has a number of inputs. One is the simple
12 yield plus growth term of the DCF. But there's also
13 terms in there for interest rates and the rate on
14 preferred stock, the dividends, and all those variables
15 change over time.

16 Q. Okay. Now, looking at Line 2, the number
17 "9.11 percent" appears, and that's the number for k_e ,
18 which is the market determined cost -- cost equity or
19 equity cost?

20 A. Yes.

21 Q. Right?

22 A. Yes. And, that's the simple yield plus growth figure I
23 think we talked about maybe five or ten minutes ago.

24 Q. Okay. And, that 9.11 percent is, as you just mentioned

{WITNESS: MOUL}

1 I think, the sum of the dividend yield of 3.86 percent
2 and the 5.25 percent growth factor that you show on
3 Page 28 of your testimony?

4 A. Yes, that's correct.

5 Q. The equation in Lines 1 and 2, it's true, is it not,
6 that the *D/E* and *P/E* ratios are based on market values?

7 A. Yes, that's based upon the market value of those
8 companies' long-term debt and the market value of those
9 companies' common equity, correct.

10 Q. And, in Lines 9 and 10, the *D/E* and *P/E* ratios are
11 based on book values, that's correct, right?

12 A. Yes, that's correct.

13 Q. So, as I understand it, the leverage adjustment is the
14 difference between the market determined cost equity in
15 Line 9 and the -- or, no, excuse me, between the book
16 value cost of equity in Line 9 and the market cost of
17 equity in Line 1, is that right?

18 A. I think I'm with you. I don't think you stated the
19 parameters quite correct in your question.

20 Q. Okay.

21 A. The difference is between the *ke* on Line 2, I think you
22 mentioned "Line 1".

23 Q. Right.

24 A. You really mean to refer to Line 2, and the *ke* value on

{WITNESS: MOUL}

1 Line 10.

2 Q. Right. So, what it is, it's, if you take the
3 9.65 percent in Line 10, and you subtract from that the
4 9.11 percent in Line 2, that gets you your leverage
5 adjustment of 0.54 percent?

6 A. Yes. But I only do that -- yes, I agree with your
7 question. But I only do that as a matter of
8 convenience to express DCF in the traditional yield
9 plus growth plus leverage. But when you look at what's
10 going on in Line 10, the cost of equity is actually
11 8.43 percent, which is the cost of equity and the cost
12 of capital with 100 percent equity in the capital
13 structure, plus 1.2 percent is compensation for having
14 debt in the capital structure, plus 0.01 percent for
15 having preferred stock in the capital structure. And,
16 I tried to explain this in rebuttal, and maybe I'm just
17 confusing the issue. But the way I initially expressed
18 the leverage adjustment, I was trying to say it this
19 morning also in my summary, was to present, as a matter
20 of convenience, a way to isolate that factor. But the
21 calculation for that cost of equity really has nothing
22 to do with the amount that I add to yield plus growth
23 to get the leverage adjustment. It's the cost of
24 equity, the 9.65 percent, on Line 10 of Page 67, is

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{WITNESS: MOUL}

1 equal to 8.43, 100 percent equity capital structure,
2 plus 1.21 percent, because you have debt in the capital
3 structure, plus 0.01 percent for having preferred, and
4 they're all risk adjustments.

5 Q. Okay. But, you know, I'd like to keep going with my
6 line of questions, if I could, --

7 A. Okay, I'm sorry.

8 Q. -- because this is an important point to the Staff.
9 The "ku", the unleveraged cost of equity, in Line 1, is
10 the same "ku" as in Line 9, right?

11 A. That's right.

12 Q. And, the "t", the small "t" is the same in both lines.

13 A. Correct.

14 Q. The small "d", which -- what's that? Oh, yes, the
15 dividend rate on preferred stock, that's the same.

16 A. Correct.

17 Q. And, the "i", which is the cost of debt, the "i" is the
18 same in both Line 1 and Line 9, right?

19 A. Yes. Those are all market-derived cost rates, that's
20 correct.

21 Q. Okay. So, the leverage adjustment is calculated based
22 on the difference between big D , divided by E , or the
23 ratio D divided by E , and I guess those themselves are
24 ratios, but measured at market value in Line 1, and the

{WITNESS: MOUL}

1 D/E measured at book value in Line 9, as well as the
2 difference between the P/E measured at market value in
3 Line 1 and P/E measured at book value in Line 9.

4 That's true, right?

5 A. That is true. That's how those ratios were computed,
6 based on the market values and the book values,
7 correct.

8 Q. And, of the total amount of the leverage adjustment of
9 0.54 percent, the amount of the leverage adjustment
10 associated with the P/E ratio, that's preferred stock
11 to equity -- common equity ratio, is tiny, right?

12 A. As I said, it's 0.01 percent.

13 Q. Right. And, that's rounded up a little bit, too.

14 A. I don't know. I'll take your word for it.

15 Q. I think so. So, would you agree with me that
16 overwhelmingly the leverage adjustment is due to the
17 difference between D/E measured at market value and at
18 book value?

19 A. Yes. It's the market value of the debt capital versus
20 the book value of the debt capital, and similarly for
21 the equity capital.

22 Q. But "D", which is the debt ratio, is essentially
23 measured at the actual amount, and it's the same amount
24 in both cases. You'd agree with me there, too?

{WITNESS: MOUL}

1 A. No, that's dead wrong. The "D" is the market value of
2 the debt.

3 Q. Okay. But the total amount of the "D" is the same --

4 CHAIRMAN GETZ: Do we need to be drawing
5 distinctions between lower case d's and upper case D's for
6 the record here?

7 MR. DAMON: Yes. When I'm -- Unless
8 otherwise noted, I'm referring to D. Thank you.

9 BY MR. DAMON:

10 Q. Okay. Let me rephrase this question. I would like to
11 ask you now, Mr. Moul, the amount of the debt in total
12 -- in the total capital, which is part of the ratio,
13 goes into the debt ratio, in other words, the D. And,
14 that's the same in both, both equations, am I right
15 about that?

16 A. You're wrong.

17 Q. Okay. How different are they?

18 A. It depends upon how the debt was valued for each firm.
19 Because I looked at each firm's amount of debt
20 outstanding, and I looked at the book value amount, and
21 then I looked at the market value amount of that debt.
22 And, it varied. I mean, some was higher and some was
23 lower. Because the market value, unless all your debt
24 is priced at the marginal cost of debt, that's the only

{WITNESS: MOUL}

1 time that the par value of the debt and the market
2 value of the debt would be the same. And, because
3 everybody attracted debt at different points in time,
4 the market value of the debt changes over time relative
5 to what interest rates are doing. So, the answer to
6 your question is "no, they're different." And, the
7 same thing for the preferred stock, they're different.

8 Q. Okay. Let me ask the question this way. How different
9 is the debt amount in the market value calculation and
10 the book value calculation?

11 A. I'd have to check my workpapers on that. I couldn't
12 volunteer for you a specific dollar amount right now
13 without looking at my workpapers, but I do know they
14 are different.

15 Q. Do you have your workpapers here?

16 A. I might. Bear with me a second.

17 CHAIRMAN GETZ: Let's take a quick
18 recess while the witness is searching for his workpapers.

19 (Whereupon a recess was taken at 2:43
20 p.m. and the hearing reconvened at 2:51
21 p.m.)

22 CHAIRMAN GETZ: Mr. Damon.

23 MR. DAMON: Thank you.

24 BY MR. DAMON:

{WITNESS: MOUL}

1 Q. Mr. Moul, I think we were talking about the amount of
2 or the difference in the debt amounts in the *D/E*
3 ratios. And, you were going to look at some workpapers
4 and give us the answer to that.

5 A. Yes. I've looked at all seven companies in my proxy
6 group. And, in eight of the -- I'm sorry, I misspoke,
7 in six of the seven instances, the market value of the
8 debt exceeded the book value of the debt. And, in one
9 instance, the market value of the debt was less than
10 the book value of the debt. So, in every instance
11 there was a difference.

12 Q. In terms of the proxy, what is the -- can you give us
13 an idea of the average amount of the increase?

14 A. It's over \$18 million.

15 Q. I apologize.

16 A. Over \$18 million.

17 Q. Okay. But, on average, what was the increase? Because
18 you're saying that, in six out of seven instances,
19 market value exceeded book, and, in one instance,
20 market value was less than book. But, on average, what
21 was the situation?

22 A. \$18 million. As a matter of fact, the exact number is
23 \$18,232,000 higher average market value of debt as
24 compared to book value of debt.

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{WITNESS: MOUL}

1 Q. So, the \$18 million appears in both equations, in Lines
2 1 and 2 and 9 and 10?

3 A. No, I'm sorry. I'm confusing you. The market values
4 of debt appears in row 2, and the book value of debt
5 shows up in Line 10.

6 Q. Okay. How much higher is the market value than the
7 book value in total, as far as debt is concerned?

8 A. You know, I may have misspoke again on that.
9 \$18 million -- what was that \$18 million? No, that was
10 an average. Okay. And, now you want the total? I'll
11 have to solve that. I don't have that number in front
12 of me. That was the average. Bear with me a second, I
13 have to add up 14 numbers here.

14 (Short pause.)

15 **BY THE WITNESS:**

16 A. Total would be \$126,625,000.

17 CHAIRMAN GETZ: So, it's basically the
18 average of 18 times the seven proxy group members?

19 WITNESS MOUL: Yes. I could have
20 shortcut that a lot, your Honor, by just multiplying it by
21 seven, right.

22 MR. DAMON: I would like to ask some
23 follow-up questions, but I'm obviously not getting at the
24 right point. So, at this point, I would like to ask

{WITNESS: MOUL}

1 permission to have Dr. Chattopadhyay ask a couple of
2 follow-ups on this, just to clarify things, because I'm
3 probably not helping the process.

4 CHAIRMAN GETZ: Please proceed.

5 MR. CHATTOPADHYAY: Thank you.

6 BY MR. CHATTOPADHYAY:

7 Q. The question really I'm interested in is the amount of
8 debt measured in market value that is appearing in your
9 Line 2, is that higher than the value of debt when
10 measured in book value that appears in Line 9?

11 A. Yes.

12 Q. If that is the case, then, for the leverage adjustment
13 that is on account of the change in the D over E in
14 those two equations, which you implied would be 0.53,
15 because the one that was associated with the P over E
16 ratio was 0.01, that is predominantly driven by the
17 value of the difference in the book value of common
18 equity and the market value of common equity, is that
19 correct?

20 A. That is a second component of it, correct. But, just
21 to be clear, it is also a function of the tax
22 deductibility of interest costs, and it's a function of
23 the unlevered cost of equity over the marginal cost of
24 debt. So, it's just the spread between the cost of

{WITNESS: MOUL}

1 equity and cost of debt with 100 percent equity in the
2 capital structure, times the tax effect, times what you
3 suggest. I mean, there's lots of moving parts here.

4 Q. I understand that. All I'm trying to confirm here, in
5 asking you about it, is that, because the other numbers
6 that you talked about, the tax rates, i , D , and
7 whatever else, they are same in both of these
8 equations. Therefore, really, that 0.53 is mainly
9 driven by the difference in the D over E ratios, and
10 because you just confirmed that the market value of
11 debt is higher than the book value of debt, all I'm
12 asking you is, doesn't this confirm that the 0.53
13 leverage adjustment is most -- is driven by the
14 difference in the market value of equity and the book
15 value of equity?

16 MR. CAMERINO: Objection. We're in a
17 bit of a tricky spot here, but Mr. Chattopadhyay is a
18 witness in this case. He's not supposed to be testifying
19 now. And, that was quite a long question, with a lot of
20 foundation in it, that, you know, there's no ability for
21 me to cross-examine him on that question. I just think --
22 I know that typically the Commission allows Staff members
23 to assist counsel on technical matters. But we're in a
24 litigated case. It's the witness, a future witness who's

{WITNESS: MOUL}

1 not under oath, and he's including facts in his question.
2 So, maybe there's a way to have, I know it was a long
3 question, but maybe there's a way to have the question
4 formulated so that it doesn't state facts where we have a
5 witness doing the questioning. Just ask the question.

6 CHAIRMAN GETZ: Well, I think it could
7 be handed off to Mr. Damon. But, I mean, I guess where
8 I'm taking the question is, given the fact that, between
9 the market value calculation and the book value
10 calculation, there are certain constants between the two
11 calculations that the leverage factor is driven largely by
12 two subsets that are market driven. I mean, is that a --
13 I think that should be easy enough to turn into a
14 question, where it's not the testimony by Mr.
15 Chattopadhyay.

16 MR. CAMERINO: And, that's kind of where
17 I'd like to end up. I'm just sensitive that, and I
18 understand we're trying this before a commission and not a
19 jury, but we have somebody who is a witness, and the
20 questions are to become part of the record in a way that's
21 very muddled. And, honestly, in something of this
22 complexity, it's hard for me to follow. And, that was
23 quite a long question, with a lot of information in it.
24 So, I guess maybe it's just asking that Staff conduct the

{WITNESS: MOUL}

1 examination in a way that the questions are clearly
2 questions and aren't containing, especially if the witness
3 is doing the questioning, aren't containing facts, but
4 rather are simply questions.

5 MR. DAMON: Well, Dr. Chattopadhyay is
6 not testifying. He was simply trying to ask a question
7 about a complicated technical subject that he could try
8 and write out for me on a piece of paper, but I can't read
9 his writing very well, and I am just trying to move things
10 along.

11 MR. CAMERINO: I think I've made my
12 point. I'm sure we're going to have to have the question
13 restated anyway.

14 CHAIRMAN GETZ: Yes, I don't think we --

15 MR. CAMERINO: I'm just asking for
16 brevity and directness in the question, so that we don't
17 run into this problem.

18 CHAIRMAN GETZ: I think the question
19 could be culled down, but we do need an answer to it.
20 And, rather than me trying to formulate it, I guess
21 Mr. Damon can just ask -- see if you can ask the question.

22 MR. DAMON: Yes. Well, I would like to
23 have that question read back, and that would be my
24 question.

{WITNESS: MOUL}

1 CHAIRMAN GETZ: Because I don't think
2 there were any facts in it. I think all that Mr.
3 Chattopadhyay did was, you know, repeat what's in Mr.
4 Moul's testimony. So, we're going to have to get this
5 back on the record. So, I guess I don't have any concern
6 about Mr. -- or, Dr. Chattopadhyay asking the question.
7 But I'd like to try and just see if there's a way that it
8 can be more briefly stated. Can you do that, Doctor?

9 MR. CAMERINO: Could I just, it is
10 possible that Mr. Moul understands the question. And, if
11 he does, it's in the record, and I'm comfortable with us
12 proceeding on that basis so we don't have to have it
13 restated --

14 **BY THE WITNESS:**

15 A. Yes. I think, if I understood the question through
16 what the Chairman had said, my answer would be "yes".
17 It is -- There's certain variables in there, they'll
18 change between the two equations. So, it's a market
19 value of the debt and the market value of the equity
20 that are the drivers of the difference.

21 MR. DAMON: I think I would like to ask
22 that that question be read back, because I think the Staff
23 was trying to get at a slightly different point.

24 CHAIRMAN GETZ: Well, rather than read

{WITNESS: MOUL}

1 it back, which I think may cause more issues, let's just
2 have the question, Dr. Chattopadhyay, if you could ask the
3 question that you wanted to do as follow-up.

4 BY MR. CHATTOPADHYAY:

5 Q. To make things simple, let me again repeat, I'm just
6 looking at the D over E piece right now. So, comparing
7 the term with the D over E in Line 1, with the one that
8 appears in Line 9. Okay? So, really, you have, if I
9 understood it correctly, confirmed that the market debt
10 amount is higher than the book debt amount?

11 A. Yes.

12 Q. And, what that tells me is that the leverage
13 adjustment, which is associated with these, you know,
14 the component that has D over E in it, is you have
15 implied as being 0.53, this is overwhelmingly driven by
16 the difference in the book value of common equity and
17 the market value of common equity, isn't that correct?

18 A. Generally speaking, yes. What you're saying is or I
19 think what your understanding is, and it's correct,
20 that the market value of equity exceeds its book value
21 by a larger amount than the amount of market value of
22 debt exceeds its book value. I agree with that.

23 MR. DAMON: Okay. Thank you. At this
24 time, I would like to give everyone a complete copy of

{WITNESS: MOUL}

1 that exhibit, I think it was 50, it's the response to
2 Staff 1-136. And, I think that has both sides copied.

3 (Atty. Damon distributing documents.)

4 BY MR. DAMON:

5 Q. Mr. Moul, would you agree with me that recent market
6 prices reflect what you have described as

7 "unprecedented turmoil in the financial markets"?

8 A. Yes.

9 Q. So, to that extent, would it also not be true that the
10 market price and the dividend yield component of the
11 DCF calculation would reflect the investor's perception
12 of risk?

13 A. In part.

14 Q. What's the other part?

15 A. Well, if you're talking about prices -- I presume
16 prices in the context of the DCF model, correct, or am
17 I misunderstanding?

18 Q. Yes.

19 A. Sure.

20 Q. Yes.

21 A. And, I agree with that. But, to the extent there are
22 factors other than those captured by D over P plus G
23 components of the DCF model, there are other factors
24 that influence investor return expectations.

{WITNESS: MOUL}

- 1 Q. Sure. Okay. Thank you. Let me ask one more
2 simple-minded question about the leverage adjustment.
3 If you look at a particular company, the financial risk
4 of that company, as the investors see it, is what it
5 is. But isn't it true that, whether market values or
6 book values are used in the measurement, it's still the
7 same company?
- 8 A. Sure it is. I agree with that. But investors can only
9 realize their returns on the market value. They can't
10 purchase the book value of a company.
- 11 Q. Right. Moving on briefly to the flotation adjustment
12 -- did you want to add anything to that last answer?
- 13 A. No.
- 14 Q. I'd like to move on briefly to the floatation
15 adjustment. And, as Staff understands it, the Company
16 has no plans to issue new stock for sale, is that true?
- 17 A. Yes. And, that was my understanding back to the
18 interrogatory we talked about earlier with the OCA, I
19 believe it was the OCA. I prepared a response back in
20 May.
- 21 Q. Well, let me, and I'll show it to you again. And, that
22 is --
- 23 A. That's based on what I understood at the time.
- 24 Q. Yes. This is a response to OCA 1-67.

{WITNESS: MOUL}

1 A. Yes, that is Exhibit -- wherever it was.

2 CHAIRMAN GETZ: Forty-five.

3 WITNESS MOUL: Yes, that was 45.

4 BY MR. DAMON:

5 Q. Okay.

6 A. Correct.

7 Q. Yes.

8 A. That was my understanding at the time this was
9 prepared.

10 Q. And, as far as you know, the answer is still correct,
11 to the best of your ability, right?

12 A. Now that I can't say, because I haven't discussed the
13 matter with the Company since then. It may well be the
14 same, but you will have to check with the company.

15 Q. Okay. Okay, I'd like to move on briefly to the Risk
16 Premium method. Now, the inputs for the Risk Premium
17 calculation are based on historical data, isn't that --
18 that's true, right?

19 A. Could I have that question back again please.

20 Q. The inputs to the Risk Premium calculation are based on
21 historical data, correct?

22 A. Some of them are, but others are forward-looking.

23 Q. Okay. And, on -- drawing your attention now to
24 Page 27, Lines 8 and 9 of your rebuttal testimony, you

{WITNESS: MOUL}

1 say: "Second, an analyst can develop a risk premium
2 from historical data that seeks to emulate investors'
3 current expectations." Do you see that?

4 A. Yes, sir.

5 Q. Okay. But, when the analyst does that, the analyst is
6 also exercising judgment, is that not true?

7 A. I agree with that.

8 MR. DAMON: Thank you very much,
9 Mr. Moul. I have no further questions.

10 CHAIRMAN GETZ: Thank you. Commissioner
11 Morrison?

12 CMSR. MORRISON: My questions were
13 answered by Staff's cross.

14 CHAIRMAN GETZ: Thank you. Commissioner
15 Below.

16 CMSR. BELOW: Yes.

17 BY CMSR. BELOW:

18 Q. Mr. Moul, you conclude your rebuttal testimony by
19 stating "The return on equity required by National
20 Grid's investors has increased to 12.25 percent as a
21 result of the ongoing financial crisis." And, that's
22 compared to your recommended 11.5 percent in your
23 original testimony, is that correct?

24 A. Yes, sir.

{WITNESS: MOUL}

1 Q. And, what do you mean by "required" in that statement?

2 A. Well, based upon the market evidence I looked at, as
3 measured by the proxy group, that's the basis I had for
4 making that -- reaching that conclusion.

5 Q. I mean, do you mean that's what's required to maintain
6 the market value of the stock or to acquire new debt or
7 to sell new common stock?

8 A. All of the above.

9 Q. Okay.

10 A. I mean, those are the standard tests of a fair rate of
11 return. And, since we have a company that has no
12 traded stock, and even its parent isn't traded, the
13 U.S. company isn't traded, we look to the proxies, and
14 say to ourselves "Well, gee wiz, if this company stock
15 were traded, it would behave like the proxy companies
16 behave."

17 Q. On Page 8 of your rebuttal testimony, at Line 16, you
18 state that "The current financial market turmoil
19 clearly points to a higher cost of capital for public
20 utilities." I presume in that statement you're
21 including both debt and equity, in terms of higher cost
22 of capital, is that correct?

23 A. Yes, that is. And, what's nice about looking at the
24 debt side of it, it's much more observable,

{WITNESS: MOUL}

1 quantifiable, because you can look and see what
2 happened between the spreads between treasuries and
3 public utility bonds, and that information is -- it's
4 harder evidence, as it were, than some of the other
5 measurements of cost of equity. Like, if we go back to
6 -- well, I'll just guide you to the particular schedule
7 I had in mind when I wrote that. If you look at my
8 Attachment PRM-25, Page 2, you can see how, on the debt
9 side, the spreads have increased enormously as the
10 financial crisis unfolded for public utilities. And,
11 by extension, I have come to the conclusion that, if
12 the cost of debt is that much higher, so is the cost of
13 equity.

14 Q. Would you say that you could say with greater
15 confidence that the current financial market turmoil
16 points to higher cost of debt for public utilities,
17 could you say that with more confidence than you could
18 say it with regard to equity?

19 A. Sure. Because the cost of debt is directly observable,
20 I mean, just look at what the numbers are. There's no
21 judgment involved. When you get to the cost of equity,
22 I mean, it becomes more murky. I mean, there's more
23 judgments that are required to come up with those kind
24 of determinations. But, it seems to me, if the cost of

{WITNESS: MOUL}

1 debt is going up, so is the cost of equity.

2 Q. Do you have a sense of what has happened to spreads
3 between Treasury and corporate bonds in general,
4 compared to public utility bonds specifically?

5 A. I have looked at that. I have looked at that.

6 Q. You have looked.

7 A. And, I'm not thinking my memory is very good on that
8 one, though.

9 Q. So, you don't know whether the spreads have grown
10 faster or slower for general corporate bonds than say
11 for public utility bonds?

12 A. I'm thinking they're about the same. But what's
13 interesting about corporate bonds is, as you move down
14 the rating scale, and you get weaker and weaker credit
15 quality, the spreads explode. They become enormous.
16 They're like six and eight percentage points for, you
17 know, very weak credit quality. And, that shows up
18 much more on the industrial side than it does on the
19 public utilities.

20 Q. So, in general, investors, of course, they look at the
21 ratings, although there have been questions about the
22 rating agencies' ratings, but, in general, would it be
23 your opinion that investors that are looking at an
24 unregulated business that is seeing a decline in sales,

{WITNESS: MOUL}

1 decline in earnings, lay off, might see that as a
2 higher risk than utility bonds, where there's perhaps
3 not a similar decline in earnings or lay offs?

4 A. I would agree with that.

5 Q. On Page 6 of your rebuttal testimony, at Line 3, you
6 state that "Due to the financial crisis, there has been
7 a flight to quality". And, then you point to the
8 "increasing demand and reducing yields on Treasury
9 obligations". Have you heard the term "flight to
10 quality" used in reference to regulated utility debt or
11 equity?

12 A. Yes. And, I think I heard it from the Staff testimony,
13 as a matter of fact.

14 Q. Okay. Obviously, what you're trying to do is or what
15 we're trying to do is come up with a fair return on
16 equity. I mean, in this time of sort of unprecedented
17 economic turmoil, is there a factor of quality that
18 might reduce the perceived risk among investors for
19 regulated utility stocks?

20 A. I think I understand your question. And, on one level,
21 I would agree with you. Utilities certainly aren't
22 being impacted to the same degree as other types of
23 competitive, non-regulated companies in our economy.
24 And, I agree with that. But you also have to keep in

{WITNESS: MOUL}

1 mind what utilities are and how utilities behave
2 through good and bad economic times. And, I'll give
3 you two quick examples, if I can. One is, in a time
4 such as this, when there's a lot of economic
5 difficulty, and there is high capital costs,
6 non-regulated companies can pull back, they can stop
7 spending. But utilities are required to provide safe,
8 reliable, and dependable service, safe service, through
9 good economic times and bad. And, so, while other
10 companies can step back and say "Oh, we're going to cut
11 back substantially on our CapEx, capital expenditures",
12 utilities can't do that. So, utilities, even during
13 times such as this, are continuing to commit capital to
14 an enterprise, where others are pulling back or have
15 stopped.

16 On a second level is the way utilities
17 are treated in the regulatory framework that we have.
18 During good economic times, unregulated competitive
19 firms can realize enormous levels of profits, and
20 utilities can't do that. So, on the downside,
21 utilities can expect to realize higher profits during
22 bad economic times perhaps that are better than other
23 companies that are suffering during an economic crisis,
24 such as we have today, and financial adversity, but

{WITNESS: MOUL}

1 utilities never participated when times were good. So,
2 what it is is utilities are operating in a much more
3 narrow band than non-regulated companies. So that, in
4 good economic times, utilities don't have the
5 opportunity to participate to the good times like other
6 companies can. And, then, they get protected, to some
7 extent, on the downside. I mean, that's the nature of
8 regulation. That's why we have protected markets and
9 why we regulate public utilities. So, the upside is
10 removed during good economic times, and there is, quite
11 honestly, some protection on the downside. But that's
12 the way that public utilities are regulated.

13 Q. But the conclusion of your rebuttal testimony is that,
14 though, perhaps actual earnings have collapsed for many
15 sectors of the economy, especially the financial
16 sector, that the required rate of return actually goes
17 up at this point in time for the equity in the
18 regulated public utility that doesn't have the same
19 downward-side risk, is that correct?

20 A. Yes. But not to the same degree as, say, a
21 non-regulated company that's facing even more
22 adversity, because they don't have the protected
23 markets like the utility has.

24 Q. So, they have seen a much more dramatic increase in the

{WITNESS: MOUL}

1 yield -- in the earnings they have to produce to
2 attract new capital?

3 A. That's exactly right. And, it goes back to my earlier
4 observation that, while utilities have some downside
5 protection in this type of economic situation, they
6 don't have the upside potential that the other
7 companies had when times were good.

8 Q. Back on the leverage adjustment, can you describe the
9 period of time where the snapshot -- is that the
10 September date that you looked at the market values to
11 input into the formulas that you used to determine the
12 leverage adjustment?

13 A. Yes. What I did, on the original calculation, was to
14 use a capital structure calculation at the end of the
15 most recent fiscal reporting period for each company.
16 So, I put this together last December/January. So, my
17 guess is -- well, we don't have to guess, we can look.
18 I can tell you exactly what period that was for. The
19 last fiscal reporting period for these companies were
20 either September or December of 2006, because we worked
21 with the data in 2007. And, the interest rates would
22 have been for the six months ended December of that
23 year.

24 Q. And, for the update in the rebuttal testimony?

{WITNESS: MOUL}

1 A. Oh, the update in the rebuttal testimony, that would
2 have been moved, since a year had passed, I would have
3 moved forward to fiscal year-end 2007, which would be
4 either September or December, depending on the company,
5 and the interest rates would have been six months ended
6 October.

7 Q. The interest rates for -- I guess I don't understand
8 where the interest rates come to bear in the formulas
9 that were referenced on Page 67 of your original
10 testimony?

11 A. It would have come from --

12 Q. And, there's a dividend rate.

13 A. Yes. Sure. The interest rate would have come from
14 Attachment PRM-18, Page 2 of 5. There's the
15 6.18 percent, that would have been for the six months
16 ended October of --

17 Q. Oh. Okay.

18 A. Oh, I'm sorry.

19 Q. I'm sorry. I didn't see that that's what you call
20 "cost of debt", Footnote 3, that's the average yield.
21 That's the interest rate you're referring to.

22 A. Yes. Yes, your Honor.

23 Q. Okay. So, that figure is more recent, but you're
24 saying the market valuation of the debt and equity

{WITNESS: MOUL}

1 would more likely be in the closing fiscal period,
2 maybe December '06 and December '07 respectively?

3 A. Yes. The fiscal reporting period immediately preceding
4 when I did the analysis, that would have been the
5 latest fiscal reporting period that I had.

6 Q. Annual, not quarterly?

7 A. Annual.

8 Q. Okay. So, at least in terms of those components,
9 there's little impact from the current financial
10 turmoil reflected in that increase in the leverage
11 adjustment from 0.54 percent to 0.57 percent?

12 A. You're right.

13 CMSR. BELOW: Okay. That's all.

14 CHAIRMAN GETZ: Do you have redirect,
15 Mr. Camerino?

16 MR. CAMERINO: I have a small amount.
17 If we could take a very brief break, I'd just like to
18 confer with my co-counsel.

19 CHAIRMAN GETZ: We'll take a brief
20 recess before we do redirect.

21 (Whereupon a recess was taken at 3:29
22 p.m. and the hearing reconvened at 3:38
23 p.m.)

24 CHAIRMAN GETZ: Mr. Camerino.

{WITNESS: MOUL}

1 MR. CAMERINO: Thank you. I apologize
2 for that delay. Had you given us a few more minutes, we
3 might have even had fewer questions, but I don't have too
4 much.

5 **REDIRECT EXAMINATION**

6 BY MR. CAMERINO:

7 Q. Mr. Moul, you were asked some questions by Mr. Damon
8 regarding the form of the DCF equation. And, you said
9 that there's the one model that the Staff uses that
10 assumes an "infinite stream of dividends", that the
11 value of the stock is equal to an infinite stream of
12 dividends, and then you referred to a second model,
13 which you said reflects the "yield plus price
14 appreciation", I think is the way you phrased it, and
15 if I've got it wrong, you can rephrase it please. So,
16 you referred to those two models. I'd like to just
17 understand why you reject the Staff's model for solving
18 for the cost of equity and favor the second model?

19 A. Well, there's several reasons. First of all, investors
20 don't purchase a stock and hold it in perpetuity. The
21 time horizon of the investors is much shorter. And, we
22 can see that by observing the turnover statistics, how
23 frequently stocks trade in the market, and you can sort
24 of get a sense, in maybe three or four years the stock

{WITNESS: MOUL}

1 of a firm will turn over. Which gives you an
2 indication of what kind of horizon investors really
3 have. It's not a horizon into perpetuity. So, then,
4 what we're left with, in DCF, is the dividend yield,
5 and the capital gains yield or price appreciation
6 investors expect to realize over their holding period
7 to give them the total return that they're looking for.
8 And, in that context of the DCF formula, earnings per
9 share growth by analysts has been shown to be the best
10 measure of growth. It is not dividend per share
11 growth, which is associated with the other form of the
12 model, which, in fact, investors don't use when they
13 buy and sell stocks in the marketplace every day.

14 Q. And, your model that you used in this case, which
15 theory is that based on?

16 A. It's based upon yield plus price appreciation or the
17 capital gains yield. And, that's best measured by
18 analysts' forecast of growth earnings per share,
19 because the price then will grow at the same rate as
20 earnings per share over their holding period, which --
21 and the analysts' forecast period also matches the
22 investor horizon that we see in the turnover statistics
23 of how frequently a firm's shares trade.

24 Q. And, the purpose of the exercise that the Commission

{WITNESS: MOUL}

1 goes through here in solving, if you're using DCF,
2 solving for that K, is it to come up with a theoretical
3 number or is it to try to determine what cost it will
4 actually take for real investors to invest their
5 capital?

6 A. It's the return that investors require or expect a firm
7 to actually achieve. It's -- What we're trying to do
8 is to match -- is to provide a return to the utility
9 that can, in turn, provide its investors with the
10 return that it requires over the horizon of its
11 investment.

12 Q. Okay. Commissioner Below asked you some questions
13 comparing general corporate industrial bonds to utility
14 bonds, and asked you about utility bonds being lower
15 risk. Do you recall those questions?

16 A. Yes.

17 Q. Okay. When you say that "the utility bonds are lower
18 risk", are you referring to lower than general
19 commercial/industrial -- corporate industrial bonds or
20 lower than they were prior to the global turmoil that
21 we were talking about?

22 A. Oh, it would be by referencing the industrial bonds. And,
23 again, I think what I said in response to the
24 Commissioner's question was, it's at the very low end

{WITNESS: MOUL}

1 of the credit quality ratings where that difference
2 becomes magnified.

3 Q. So, when you talk about a "flight to quality", and,
4 first of all, the idea that the flight to quality, I
5 take it, reduces interest rates on a relative basis of
6 the bonds that the flight is to?

7 A. That's the key point. It's the flight to quality
8 reduces the interest rate for the target of the flight.
9 And, as I used it in my rebuttal testimony, the flight
10 to quality had to do with yields on the Treasury bonds.
11 Those Treasury bonds were the target of the flight.
12 Everybody went for the Treasury bonds, increased the
13 demand, drove down the yield, along with monetary
14 actions that the Federal Reserve took on its own, which
15 is what drove down Treasury yields so dramatically.

16 Q. And, lastly, you talked about how utilities are
17 different than general commercial/industrial companies,
18 in that they have to keep investing capital. Do you
19 recall that?

20 A. Yes, I do.

21 Q. And, if a utility's earnings are diminishing, they may
22 even be negative, is it able to stop investing capital
23 in order to maintain its system?

24 A. Well, it depends on the individual circumstance of the

{WITNESS: MOUL}

1 utility. At some point, capital -- well, what will
2 happen first is capital will become very costly to that
3 utility that has to continue to invest with inadequate
4 returns. And, at some point, capital just won't be
5 available at all. And, we saw that for a brief period
6 back in October. No matter who you were, it was
7 extremely difficult to attract capital. I can think of
8 utilities back in the October/November time frame when
9 they were paying 10 percent or more to sell debt
10 capital in those kinds of markets. But capital will
11 become much more difficult to attract if the utility is
12 not in a position where it's earning a decent return.

13 MR. CAMERINO: Thank you.

14 CHAIRMAN GETZ: Okay. Anything further
15 for this witness this afternoon?

16 (No verbal response)

17 CHAIRMAN GETZ: Hearing nothing, then
18 you're excused. Thank you, Mr. Moul.

19 WITNESS MOUL: You're welcome.

20 CHAIRMAN GETZ: Is there anything that
21 we need to address before we recess for the day? My
22 understanding is we will begin tomorrow with Dr.
23 Chattopadhyay, and then go to Mr. Stavropoulos, is that
24 correct?

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MR. CAMERINO: I think that's correct.
I was wondering, and I haven't talked to the parties about
this, whether it makes any sense, I just want to make sure
we're going to get done tomorrow, and wondering whether,
as a safeguard, we should start at 9:00, if there's any
interest in that or not? I mean, --

CHAIRMAN GETZ: Well, let's go off the
record for a second here.

(Brief off-the-record ensued.)

CHAIRMAN GETZ: All right. Back on the
record. Okay. We will recess for the day and resume at
9:30 tomorrow morning. Thank you, everyone.

**(Whereupon the hearing adjourned at 3:46
p.m. and the hearing to reconvene on
January 29, 2009, commencing at 9:30
a.m.)**