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STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

February 18, 2011 - 10:15 a.m.
Concord, New Hampshire

RE: DG 08-048
UNITIL CORPORATION AND NORTHERN
UTILITIES NATURAL GAS:
Joint Petition for Approval for
Stock Acquisition.
(Status conference)

PRESENT: Chairman Thomas B. Getz, Presiding
Commissioner Clifton C. Below
Commissioner Amy L. Ignatius

Sandy Deno, Clerk

APPEARANCES: Reptg. Unitil Corporation and Northern
Utilities Natural Gas:
Gary Epler, Esq.

Reptg. Residential Ratepayers:
Kenneth E. Traum, Asst. Consumer Advocate
Office of Consumer Advocate

Reptg. PUC Staff:
Lynn Fabrizio, Esq.
Stephen Frink, Asst. Dir./Gas & Water Div.
Randy Knepper, Dir./Gas Safety Div.
Robert Wyatt, Gas & Water Division

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

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P R O C E E D I N G

CHAIRMAN GETZ: Good morning, everyone. We'll open up this hearing in Docket DG 08-048. On October 10, 2008, the Commission issued an order approving the acquisition of Northern Utilities by Unitil Corporation. Among other things, the order provided for a study that would consider how Granite and Northern might be operated and organized for the benefit of customers. The final report was submitted in March of 2010. Subsequent to a review of that report, Staff filed a recommendation in November of 2010 that, among other things, recommended an investigation on a list of issues. We then had a letter filed by the Company asking for an opportunity to convene a status conference to provide an opportunity to make a presentation on the results of the Granite Study. That request was approved on December 10, setting up the status conference that was rescheduled for this morning.

So, this is not an adjudicative proceeding at this juncture. What we'll do today is have a presentation, it appears by numerous people from the Company, and also an opportunity for public comment or for statements from the Consumer Advocate and Staff and questioning from the Commission.

1 So, with that, Mr. Epler.

2 MR. EPLER: Yes. Thank you. Good
3 morning, Mr. Chairman and Commissioners. My name is Gary
4 Epler. I'm the attorney for Northern Utilities. We have
5 today, as you indicated, a presentation for the
6 Commission. What I'd like to do is have the panel members
7 introduce themselves and give you their position within
8 the Company. Would you like them sworn?

9 CHAIRMAN GETZ: I don't think it's --
10 it's a status conference, I don't think it's necessary to
11 be sworn. So, --

12 MR. EPLER: Okay. Is that -- does any
13 --

14 MS. FABRIZIO: No objection.

15 MR. EPLER: -- party feel differently?
16 Okay. Okay. Then, Mr. Meissner, if you would just start
17 out, just to introduce yourself, your name and your
18 position with the Company, and then the rest of the panel
19 can follow.

20 MR. MEISSNER: Yes. Good morning. My
21 name is Tom Meissner. And, I'm Senior Vice President and
22 Chief Operating Officer of Unitil Corporation.

23 MR. FURINO: Good morning. Rob Furino,
24 Director of Energy Contracts.

1 MR. STEPHENS: Jim Stephens, from
2 Concentric Energy Advisors.

3 MR. SIMPSON: Jim Simpson, from the
4 Concentric Energy Advisors.

5 MR. SPRAGUE: I'm Kevin Sprague. I'm
6 the Director of Engineering for Unitil.

7 MR. BICKFORD: I'm Tim Bickford. I'm
8 the Manager of Gas Engineering for Unitil.

9 MR. LEBLANC: Chris LeBlanc. I'm the
10 Director of Gas Operations for Unitil.

11 MR. PFISTER: Good morning. I'm
12 Jonathan Pfister. I'm the Manager of Gas Systems
13 Operations for Unitil.

14 MR. COLLIN: Mark Collin. I'm the Chief
15 Financial Officer for Unitil Corporation, and I'm the
16 Treasurer of Northern Utilities.

17 CHAIRMAN GETZ: Good morning, everyone.

18 MR. EPLER: Mr. Chairman, first of all,
19 I'd like to thank the Commission for giving us the
20 opportunity to provide this presentation. There's a lot
21 of material that we'd like to cover. We'll try to do it
22 in the most economical way possible. We'd also encourage
23 this to be a dialogue. So, if there are particular
24 points, please feel free to interrupt, ask questions, or

1 make comments. And, if it's all right with you, I would
2 ask the same thing of the panel. We have particular slots
3 for people to speak and to make a presentation, but there
4 may be points that one or another member of the panel
5 would like to either add a comment or a point on. And, we
6 ask your indulgence to allow that to happen, so that it is
7 more of a kind of informal dialogue, if that's okay with
8 you?

9 CHAIRMAN GETZ: That's fine, as long as
10 one person speaks at a time and Mr. Patnaude can record
11 it.

12 MR. EPLER: Okay. And, yes, well, if I
13 can just underscore that with the panel. Just to speak
14 clearly and slowly, try to speak towards the microphone,
15 and not speak on top of each other. There's also, my
16 understanding is that the Maine Commission Staff members
17 are on the phone line. And, I'm not sure if there's a
18 representative from the Maine Office of Public Advocate as
19 well, but they are listening in to this presentation.
20 They have also been provided a electronic copy of the
21 handout that you have in front of you.

22 Now, given this is an informal
23 presentation, just procedurally, you do have this binder
24 in front of you. And, we also have a map. Would you like

1 those marked as exhibits in this docket?

2 CHAIRMAN GETZ: I don't think they
3 really need to be marked as exhibits for identification at
4 this juncture.

5 MR. EPLER: Okay.

6 CHAIRMAN GETZ: So, we'll just put them
7 in the docketbook and they will be recorded there.

8 MR. EPLER: Okay. And, then, we will
9 also be referring to, during the course of the
10 presentation, the Granite Study, which was I think, at
11 least according to the cover letter I have here,
12 physically filed on March 4th, in compliance with the
13 Settlement Stipulation in DG 08-048, and electronic copies
14 were also provided as well. I don't have physical copies
15 of that here, but it is -- it has been part of the docket.
16 And, we'll be referring to items in there, but most of the
17 detail that you'll need for purposes of the presentation
18 is within this binder.

19 CHAIRMAN GETZ: Thank you.

20 MR. EPLER: Okay. And, with that, I'll
21 turn it over to the panel, and to Mr. Meissner to begin.

22 MR. MEISSNER: Good morning. And, thank
23 you for the opportunity here this morning. We do have a
24 fairly large panel. We brought all of the people that

1 have been intimately involved in the study since the
2 beginning, so we should be able to field any questions
3 that arise here today and have the actual technical people
4 that were involved in the study work available for
5 questioning.

6 The presentation itself is fairly long.
7 We tried to strike a balance, I think, between being
8 comprehensive in covering the different aspects of what
9 the study sought to achieve, but we also tried to not make
10 it overly technical or get into a lot of engineering type,
11 you know, analysis as part of the presentation. So, we
12 hope we struck the right balance. But, if there is
13 questions, we certainly have the people that can answer
14 the questions.

15 As has been already outlined, as part of
16 the approval docket for Unitil's acquisition of Northern,
17 we agreed to perform this study under Section 7.1 of the
18 Settlement Agreement. The elements of the study itself
19 were set forth in Attachment B to the Settlement
20 Agreement. And, as part of that, we agreed to share our
21 findings, results, recommendations throughout the study
22 process to the other parties and to Staff so that they
23 could provide input, and we had a goal of achieving
24 agreement on the final outcome and recommendations of the

1 study. We believe that we did everything that was
2 requested as part of the Settlement Agreement. I think
3 it's the agreement on the outcome that perhaps is, you
4 know, the subject of this hearing. We will talk more
5 about the study itself further into the presentation and
6 just outline what was actually performed as part of that.

7 The stated purpose of the study was to
8 assess whether the customers of Northern and Granite would
9 be better served by integrating Northern and Granite. But
10 there was also some more specific reasons behind the study
11 that I wanted to talk about to provide context for the
12 technical work that we'll be discussing. There's going to
13 be a lot of discussion here today about de-rating the
14 pipeline, about changing the pressure of the pipeline,
15 there will be talk about jurisdictional issues. And, so,
16 I just wanted to kind of frame that at the outset, so,
17 when we get to that portion of the discussion, it will be
18 clear why it was an important part of the study itself.

19 At Page 12 of the Order, Staff outlined
20 one of the concerns underpinning the study, and that was
21 that, in order to comply with new federally mandated
22 pipeline integrity management requirements, Granite has
23 invested approximately seven and a half million and
24 expected to invest another 6.7 million through 2012. That

1 was spending on, you know, integrity management
2 requirements due to its classification as a "transmission
3 pipeline".

4 The Order then went on to say, "in
5 Staff's view, it is possible that Granite may be able to
6 avoid the expense of the federally mandated pipeline
7 integrity management requirements while still providing
8 safe and reliable service, depending on changes to the
9 corporate structure of Northern and Granite and system
10 engineering. That aspect was really one of the key
11 reasons for the study.

12 There was a belief among all the
13 parties, including ourselves, I might add, that we might
14 be able to de-rate the pipeline by which we may reduce the
15 operating pressure of the pipeline. And, in doing so, it
16 would no longer be classified as a transmission pipeline
17 under federal safety regulations. If we were to do that,
18 then we would be able to avoid additional spending on
19 integrity management, and those expenditures were outlined
20 as being close to \$7 million. So, avoiding that
21 \$7 million in additional integrity management costs was
22 one of the reasons for undertaking the study at the time
23 of the docket.

24 At Page 31 of the Order, Staff also

1 noted that the safety of Granite's 40 miles of pipeline in
2 New Hampshire and 47 miles of pipeline in Maine is
3 federally regulated. Staff believes, however, that state
4 safety jurisdiction would result in closer scrutiny of
5 pipeline safety. And, Staff is hopeful that issues
6 related to the way in which NiSource has operated Granite
7 and Northern will be resolved by Unitil. This was another
8 element of concerns at the time that led to the study
9 report. There was concerns that Northern, which was being
10 operated by Bay State, and Granite, which was being
11 operated by Columbia Gas, were not being fully transparent
12 in safety regulations and enforcement and disclosure. In
13 particular, the regulatory stations that deliver gas to
14 Northern were owned by Granite, even though they were
15 providing service only to Northern. And, my understanding
16 was at the time, under the prior structure, if questions
17 arose regarding the safety of those regulator stations,
18 Northern could simply point to Columbia, and Columbia
19 would not be responsive to their requests. So, there was
20 a concern around the structure of Granite and Northern,
21 from the standpoint of safety enforcement.

22 At Page 29 of the Order, Staff testified
23 that, if Unitil's final report finds that customers are
24 best served by Granite as presently configured, and all

1 parties agree, no action by the Commission is required.

2 If the report finds that customers would be benefited from
3 state regulation of Granite, the Commission may be asked
4 to participate in a FERC proceeding requesting state
5 jurisdiction. If other parties or Staff do not agree with
6 the results of the report, the Commission may be asked to
7 open an investigation into what Granite structure is in
8 the public interest.

9 It then went on to say that the fact
10 that Unitil does not presently operate an interstate
11 pipeline allows for a fresh look at Granite's operation
12 and corporate structure. And, that was one of the final
13 areas of concern identified during the original
14 proceeding, was that the Company did not have experience
15 operating an interstate pipeline at that time. So, I
16 think there was a view that, if the pipeline could be
17 de-rated and removed from its status as a transmission
18 pipeline, that there would be a higher level of comfort
19 with that concern.

20 So, those three excerpts from the Order
21 I think provide the context for the study itself. The
22 reasons for the study were (1) the transparency of Granite
23 with respect to safety and oversight enforcement; (2) the
24 costs of integrity management, and whether those costs

1 could be avoided; and (3) Unitil's experience managing a
2 transmission interstate pipeline.

3 I think it's also notable that at that
4 time the report itself tended to be driven by the safety
5 engineers and safety directors of the two Commissions,
6 because much of the concern revolved around safety.

7 With these as the fundamental concerns
8 behind the study, the focus of the study itself was
9 primarily on achieving a physical or operational change to
10 the pipeline. Meaning, a change to the configuration or
11 the operating pressure of the pipeline, with a goal of
12 trying to remove its status as a federally jurisdictional
13 transmission pipeline. And, in terms of how that might be
14 accomplished, it really comes down to one thing, and that
15 would be pressure. Under Part 192, the federal
16 regulations for natural gas pipelines, a transmission line
17 is defined, in part, as a pipeline that operates at a hoop
18 stress of 20 percent or more of the pipe's Specified
19 Minimum Yield Strength. So, without getting into a lot of
20 technical jargon, the Specified Minimum Yield Strength of
21 the pipe, which you may hear people refer to here as
22 "SMYS", is really a characteristic of the pipe itself. It
23 relates to the size, the materials used, and the pipe
24 itself. So, you can't change that without replacing the

1 pipe.

2 But the hoop stress, the other part of
3 that equation, is a function of pressure. It relates to
4 the pipe -- the operating pressure within the pipe and the
5 stress that that exerts on the pipe. So, in order to
6 reduce the hoop stress, you would reduce the operating
7 pressure. And, if you could reduce the hoop stress so
8 that it's less than 20 percent of the SMYS, then the
9 pipeline technically is no longer a transmission pipeline.
10 So, that was really the primary goal of a lot of the
11 scenarios analyzed in the report, was to reduce the
12 operating pressure to that level so it falls out of the
13 classification as a transmission pipeline.

14 I think it's also worth touching on the
15 jurisdictional issues involved, because that will get
16 talked about quite a bit, between state and federal
17 jurisdiction. But there's really two distinct
18 jurisdictional issues involved. One is the ratemaking
19 jurisdiction, which is currently with FERC, but the other
20 is really the safety jurisdiction, and which rules under
21 federal pipeline safety rules are really applicable to
22 Granite. Currently, the applicable rules are those for
23 transmission pipelines, and the enforcement jurisdiction
24 is with PHMSA. So, a goal of the study was, of course, to

1 change it so it's no longer classified as "transmission",
2 which means it would fall under a different set of rules,
3 and the enforcement for those rules would be state
4 jurisdiction. So, the jurisdictional issues are really --
5 there's two of them; one being for safety and one being
6 for ratemaking purposes.

7 As we approached the study and scoped
8 the work involved, we were really focused on the second
9 jurisdictional issue, which was the safety jurisdiction.
10 The goal of the study was to change the classification of
11 the pipeline so it was a "distribution" pipeline. That
12 would allow us to change its classification under Part
13 192.

14 The ratemaking jurisdiction was really a
15 secondary consideration. In fact, it wasn't really the
16 consideration at all for most of the people doing the
17 study. They were looking primarily at the operational and
18 engineering characteristics of the pipeline.

19 And, as --

20 CMSR. IGNATIUS: Mr. Chairman, just
21 quickly. Does that mean then you could end up with a
22 pipeline that is considered distribution under safety
23 standards, but still under FERC ratemaking authority?

24 MR. EPLER: Yes. That is the case,

1 because the issue for FERC is whether it's a pipeline, an
2 interstate pipeline engaged in the transportation of gas
3 and interstate commerce. And, if it is, then, under
4 Section 2(6) of the Natural Gas Act, it's subject to the
5 ratemaking and service jurisdiction of the FERC.

6 CMSR. IGNATIUS: Thank you.

7 CHAIRMAN GETZ: Well, I'm sorry. Then,
8 the "hoop stress" definition is a Department of
9 Transportation definition then?

10 MR. MEISSNER: Yes. That's correct.

11 Now, when we agreed to do this study, we ourselves
12 believed that it would probably be feasible to reduce the
13 operating pressure of the pipeline and de-rate the
14 pipeline. At that time, I think everybody sitting here
15 probably thought that was the likely outcome of the
16 report. So, as we -- as we entered the study stage of
17 this, you know, we certainly went in with no bias that
18 there would be any other outcome. I think the people here
19 thought that was the most likely outcome of the study.
20 And, as we talk about the presentation today, you'll keep
21 hearing people referring to "de-rating the pipeline" and
22 "changing the configuration of the pipeline", and, you
23 know, this provides really the context for why de-rating
24 and changing the configuration of the pipeline were an

1 important part of the study objective.

2 As we turn to Slide 3, in terms of the
3 study itself, Appendix B provided the areas that were to
4 be looked at as part of the study. And, those areas
5 included network planning, which would include system
6 impacts, construction requirements, reliability
7 implication, and the cost of construction under the
8 various alternatives. IMP costs included the capital
9 costs and ongoing maintenance costs associated with
10 Pipeline Integrity Management, and whether we could avoid
11 those costs. Operational impacts included the costs of
12 reducing the operating pressure and splitting the
13 pipeline. Supply contracts included the cost impacts and
14 loss of flexibility in contracting for the supply for
15 Northern and its customers. And, marketers and suppliers
16 recognize the effect on customers, marketers, and
17 suppliers, if the pipeline were integrated into Northern,
18 and whether that integration would affect the availability
19 of the pipeline for wholesale deliveries. And, "legal and
20 regulatory" pertain to exemptions or determinations
21 available, as applicable, to seek a jurisdictional change
22 or decertification under the pipeline under PHMSA.

23 It's important to point out, I think,
24 that all of these study areas really relate to a change in

1 the physical characteristics or operational configuration
2 of the pipeline, and that's why they were part of the
3 study.

4 The final paragraph in Appendix B
5 concluded by stating: "Should this study lead to a
6 conclusion that de-rating the pipeline and filing for an
7 exemption from PHMSA regulation and FERC jurisdiction is
8 the most cost-effective long-term solution for Northern
9 and Granite, given due consideration to all the factors I
10 just mentioned, Unitil agrees to file an appropriate plan
11 with the Maine and New Hampshire Public Utilities
12 Commissions and, if consistent with the findings of the
13 Commissions of Maine and New Hampshire, to cooperate in
14 seeking approval of the plan from the federal agencies."

15 Now, in terms of the conclusions of this
16 study, which I've outlined on Slide 4, our position here
17 today is that the study did not reach such a conclusion.
18 In fact, the study reached the conclusion that the current
19 configuration of the pipeline is really the best
20 configuration for the pipeline and the most effective
21 long-term solution for Northern and Granite and for their
22 customers.

23 Primarily, one -- one important
24 conclusion is that de-rating the pipeline is not feasible

1 or cost-effective. And, we're going to be covering that
2 in more detail as we go through the presentation. I'm not
3 even sure today if, you know, I don't want to speak for
4 any other parties, but it's not clear to me whether
5 there's any disagreement over that point any longer, that
6 the pipeline cannot be de-rated.

7 Another conclusion was that the current
8 configuration, as it exists today, is the best
9 configuration. And that, when all factors are considered,
10 including planning costs, operations, management of
11 supply, access for third party suppliers, reliability and
12 safety are considered, there is no scenario that is even
13 closely comparable to its current configuration.

14 CHAIRMAN GETZ: Mr. Meissner, you said
15 "cannot be de-rated". You mean "should not"?

16 MR. MEISSNER: Well, I guess maybe
17 "cannot" is maybe too strong a term, because I guess, with
18 money, anything can be accomplished. But it cannot be
19 simply reduced in pressure and operated as it is today
20 from an engineering and planning standpoint. And, to try
21 to do so would require costly upgrades that would greatly
22 exceed the cost of maintaining the current configuration.

23 CHAIRMAN GETZ: Thank you.

24 MR. MEISSNER: It would not be able to

1 essentially serve the existing load at a reduced pressure.

2 And, finally, the options to split or
3 segment the pipe that we did examine, typically included
4 significant operational and reliability concerns, and we
5 found that all of those alternatives were more expensive
6 than maintaining the pipeline in its current
7 configuration.

8 Therefore, it's our position today that
9 the current configuration of the pipeline provides the
10 best operational and economic benefits to customers. So,
11 we will be spending a lot more time going through the
12 scenarios, but I think this provides some of the upfront
13 context as we go through it.

14 And, I did want to note at the outset
15 that there also are some deadlines that we're facing,
16 which I've identified on Slide 4. And, some of those
17 including state work on the Little Bay Bridge between
18 Newington and Dover. You know, we're running up against
19 deadlines on that. And, we also have the deadline of I
20 believe it's December 17th, 2012 to complete all of our
21 integrity management work, including baseline assessments.
22 And, there's a scope of work that goes with each of those
23 that's fairly extensive. And, we already delayed some of
24 that work last year, but we expected to need the next two

1 construction seasons to complete the scope of work
2 associated with those two requirements.

3 So, that concludes my comments. If
4 there's no questions at this point, I was going to turn it
5 over to Kevin and Tim Bickford to actually provide an
6 overview of the pipeline itself, just to give an operating
7 description of what Granite is and how it operates. And,
8 then, they'll also go through some of the key projects
9 that were talked about in the study, including integrity
10 management, this project, the crossing at Little Bay
11 Bridge, and there was a disbonded pipe project. So, these
12 all became important projects within the study scope.
13 And, Tim will go through each of those individually and
14 just explain what it is.

15 MR. EPLER: If I could also point out,
16 as Mr. Meissner indicated, initially, the Company was of a
17 view that it could change its operating pressure and
18 perhaps also change regulatory jurisdiction, and that
19 there would be opportunities to do so. And, so, it really
20 went into the study with, if you personalize a company
21 doing this, with an open mind. And, this study, the study
22 that was undertaken, is the process by which the Company
23 made its determination that the current configuration is
24 the best result for customers, for the public. There was

1 -- and the determination by which the Company has chosen
2 to proceed keeping the jurisdiction with PHMSA and with
3 FERC.

4 There was no other study undertaken. I
5 mean, there wasn't like a side study that the Company kind
6 of did its own analysis and came to a conclusion, and then
7 just kind of did this because it was required to do it as
8 part of the Settlement Stipulation. This was the process
9 that the Company went through to reach its conclusions.

10 CHAIRMAN GETZ: Okay.

11 MR. SPRAGUE: Okay. Please turn to
12 Page 6. I'm going to start by giving an overview of the
13 Granite System, just to make sure that everybody has an
14 understanding of that. And, what I'm going to be doing
15 is, you have an 11 by 17 map in front of you, and that can
16 be used to help orient everyone to the pipeline.

17 The Granite System consists of 87 miles
18 of primarily 10-inch coated steel pipeline. This pipeline
19 started -- the initial construction was started in the
20 '50s in New Hampshire, and then extended itself up into
21 Maine in the 1960s. The Granite System, as it stands
22 today, not only serves Northern customers, but it also
23 serves marketers and end-users of the system as well.

24 The configuration of the pipeline, as it

1 stands today, if you look, and I'll use a pointer, this is
2 actually the -- the larger map you see, I'll kind of point
3 out, just so you can look at it on your smaller version.
4 If you look down in the lower corner here [indicating],
5 this is one of the supply points into the Granite System,
6 and that's the Tennessee supply point. In Newington, New
7 Hampshire, which is right about there [indicating],
8 there's a second supply into the system. And, then, up in
9 Westbrook, Maine, which is right near Portland, is the
10 third supply into the system.

11 So, what we have right now is we have an
12 integrated pipeline, with multiple supply points. It has
13 a great deal of ability and flexibility to serve the load
14 in a reliable manner. It gives -- it gives our gas supply
15 folks the ability to develop the best gas portfolio for
16 the customers, the most cost-effective portfolio for the
17 customers.

18 And, honestly, I believe, from an
19 engineering standpoint, that if this wasn't an integrated
20 pipeline, that we'd be looking for ways to connect it and
21 to integrate it. And, you know, we might be having a
22 different discussion today, you know, being in front of
23 you asking for, you know, the approval to turn it into the
24 configuration that it is today.

1 Turning to Page 7, this kind of shows a
2 blown-up view of strictly New Hampshire. And, as I stated
3 before, within New Hampshire, and the little bit that goes
4 into Massachusetts, there's the two supply points; one
5 from Tennessee, and then at Newington, from Portland
6 Natural Gas.

7 Physically, there's about 39 miles of
8 the Granite pipeline that's located in New Hampshire, and
9 there's less than one mile that stretches over into
10 Haverhill, Mass., to tie into the Tennessee pipeline.

11 The system, at this point, has 19
12 regulator stations off of the Granite System, serving
13 approximately 29,000 NU customers within New Hampshire.
14 And, this pipeline operates at a Maximum Allowable
15 Operation Pressure, MAOP, of 492.

16 If you note on the map that I handed out
17 to you, there are several different highlights that I'll
18 point out. The first being this, kind of the blue line
19 that runs through Stratham. This is the location of the
20 disbonded pipe. And, we'll get into that. I just want to
21 make sure that you have the layout. Just north of that,
22 there's a pink highlight, which is actually used to denote
23 Little Bay Bridge. And, just north of that, there's an
24 orange highlight, where the Granite pipeline actually

1 crosses over the Piscataqua River from New Hampshire into
2 Maine. So, those -- so those will become important as we
3 continue to go through this.

4 Turning to Page 8, this is -- this is
5 kind of a blowup of the Maine area. If you look at the
6 Maine area, there's approximately 47 miles of Granite
7 pipeline in the Maine system, that stretches from the New
8 Hampshire/Maine border, up to Westbrook, Maine. There's
9 actually a Northern owned and operated line that goes from
10 the Westbrook area, up to the Lewiston/Auburn area.

11 So, in Maine, there's two primary load
12 pockets. There's, you know, the Greater Portland area and
13 then the Lewiston/Auburn area. In Maine, the Granite
14 System supplies approximately 26,000 Northern customers,
15 and, again, operates at the same operating pressure as it
16 does in New Hampshire.

17 So, turning over to Page 10 now,
18 entering into this study, as Mr. Meissner had indicated,
19 there were three projects that we needed to address in the
20 near future. And, those are the projects that we worked
21 into the study from a configuration standpoint. Those
22 three projects were the Integrity Management compliance --
23 Integrity Management requirements, the disbonded coating
24 that we needed to address, and also the Little Bay Bridge.

1 So, I'll start with Integrity
2 Management. In 2003, sticking with Page 10, in 2003,
3 there was a rule promulgated called the "Gas IM Rule".
4 And, what this -- what this rule required was for
5 operators of transmission pipelines to develop an
6 Integrity Management Program. And, what this Integrity
7 Management Program does is provides a framework for
8 risk-based analysis with respect to the pipeline. And,
9 this risk-based analysis is focused on what's called "High
10 Consequence Areas". And, I'll get into what a "High
11 Consequence Area" is and describe that on the next page.
12 The rule further went on to say is, of these High
13 Consequence Areas, you needed to do a baseline assessment
14 of 50 percent of that by 2007. So, if you think of "High
15 Consequence Areas" as "mileage", you have to assess half
16 your mileage of HCAs by 2007, and the other, the remaining
17 half, assess it by the end of 2012.

18 The way that you -- there's a couple
19 different ways to assess this that PHMSA allows. One
20 being direct assessment. Meaning, you dig up your whole
21 pipe and you look at it. That's not really feasible. The
22 other way to do it is actually what they call "in-line
23 assessment", or what we'll refer to as "pigging",
24 "pigging" stands for "pipeline inspection gauge". So, if

1 you can imagine, it's actually like a little robot that
2 goes and uses gas pressure to move its way through the
3 pipeline. And, as it's going through the pipeline, it's
4 measuring all different characteristics: Wall thickness.
5 Are there dents? Are there gouges? Is there corrosion
6 problems with the pipeline?

7 So, once you have -- so, once you do
8 this assessment, you might have anomalies that you need to
9 repair. Up until this point, with the work that we've
10 done, we're happy to say that it's very -- we have a very
11 few amount of anomalies that have been found. And, with
12 the remaining three and a half miles that we have left to
13 do, we're only expecting between one and two anomalies.
14 Meaning, you might have a dent in the pipeline from the
15 original construction that's deeper than code allows. So,
16 you would have to cut out that section and replace that
17 section. That would be an example of an anomaly.

18 By the end of 2012, we'll have
19 approximately 80 percent of the entire length of the
20 Granite pipeline to be -- it will be "piggable", meaning
21 that the pig can go through it. And, what we've done is
22 we've set this up in extremely long runs. For instance,
23 we can launch a pig up in Westbrook, Maine, and actually
24 receive it down in Eliot. And, what that does is it,

1 because it's such a long distance, it allows us to not
2 only assess those areas that are within an HCA, but also
3 those areas that aren't. Because, you know, HCAs can be
4 short or they can be very long. And, you don't want to
5 install the necessary equipment to launch a pig, and then
6 receive the pig in each of these little sections. You'd
7 rather do it over a longer range. So, by the end of --
8 so, by the end of 2012, the majority of our pipeline will
9 be piggable and will be assessed.

10 So, what happens, once you do your
11 initial assessment, then every seven years you need to
12 reassess your pipe. You need to run the pig through it
13 again to determine any changes, and those changes are then
14 addressed. So, looking at the -- if you just take a quick
15 look at that table on Page 10, you can see that we have
16 34 percent of the mileage of HCAs still to do. That
17 relates to about 3,200 feet within Maine and about
18 16,000 feet within New Hampshire. Up until this point,
19 most of the HCA work was done in Maine, and, actually,
20 most of that was this line that goes between -- no, no.
21 Forget that. Sorry. I got off track.

22 So, if you turn to the next page, which
23 is Page 11, which shows a picture. And, this is an
24 example of a High Consequence Area. To determine your

1 High Consequence Areas, your --

2 CMSR. IGNATIUS: Before you go on, --

3 MR. SPRAGUE: Okay.

4 CMSR. IGNATIUS: -- you got lost -- I
5 got lost. The amount assessed on chart -- on Page 10, in
6 New Hampshire alone, is only 9 percent?

7 MR. SPRAGUE: Up until this -- up until
8 this point, yes. There's only been 9 percent that's been
9 assessed.

10 CMSR. IGNATIUS: It's a strange chart,
11 because you've got both dates moving --

12 MR. SPRAGUE: Right. So, --

13 CMSR. IGNATIUS: -- down the line, and
14 then states different --

15 MR. SPRAGUE: Right.

16 (Multiple parties speaking at the same
17 time.)

18 CMSR. IGNATIUS: States identified also
19 in different columns, and I can't put it together.

20 MR. SPRAGUE: Right. Okay. So, between
21 the years 2003 and 2005, there was a little less than
22 5,000 feet of HCAs that were assessed. That's 9 percent
23 of the total, and all of that was in New Hampshire.

24 CMSR. IGNATIUS: Oh. Not 9 percent of

1 the New Hampshire portion?

2 MR. SPRAGUE: No. Nine percent of the
3 total. From 2006 to 2007, there was about 32,000 feet
4 that was assessed, which is 57 percent of the total, that
5 was all in Maine. So, for the remaining two construction
6 seasons that we have -- well, essentially, this is going
7 to be 2010 to 2012, this is the chart that comes out of
8 the study, but there's a little over 19,000 feet
9 remaining, of which 3,200 feet of that is in Maine and
10 16,000 feet of that is in New Hampshire.

11 CMSR. IGNATIUS: Thank you.

12 MR. EPLER: Kevin, can you confirm a
13 point? Is it correct that, because of the current
14 configuration of the pipe, being a continuous pipe, that
15 the Company can undertake this assessment, undertake the
16 pigging, without taking customers out of service, without
17 loss of service?

18 MR. SPRAGUE: That is true.

19 MR. EPLER: Okay. And, that becomes an
20 important point later on in our discussion?

21 MR. SPRAGUE: Correct.

22 MR. EPLER: Okay. Thank you.

23 CHAIRMAN GETZ: Can we get back to the
24 numbers about what's assessed?

1 MR. SPRAGUE: Yes.

2 CHAIRMAN GETZ: So, 16,000 feet in New
3 Hampshire of total pipeline that needs to be assessed or
4 HCA area pipeline that needs to be assessed?

5 MR. SPRAGUE: There's 16,000 feet of
6 High Consequence Areas that need to be assessed.

7 CHAIRMAN GETZ: So, basically, 5,000 of
8 the 21,000 relevant feet have been assessed. And -- okay.

9 MR. SPRAGUE: Right.

10 MR. MEISSNER: To that point, Kevin,
11 just to clarify, though, under our current plan, without
12 regard to HCAs, how much of our total pipeline in New
13 Hampshire will be assessed by the time we're done? Is it
14 most of it?

15 MR. SPRAGUE: It's most of it. By the
16 time we're done with our Integrity Management Plan, it
17 will essentially be all the way from the -- from the
18 supply point down in Haverhill, all -- pretty much all the
19 way up to Portsmouth.

20 MR. MEISSNER: So, while the requirement
21 is to do only the HCAs, by doing these long runs, we'll
22 actually be assessing all the pipeline, whether it's in an
23 HCA or not.

24 MR. SPRAGUE: So, turning to Page 11,

1 this is kind of an overhead view to explain what an HCA
2 is. The red line that you see coming from the upper
3 right-hand corner, is hitting the road, it turns yellow,
4 and then keeps going down to the bottom middle of the
5 picture, and then turns red again. Essentially, the way
6 you determine an HCA is you take a distance from the
7 pipeline on either side, and that -- and you bring that
8 all the way down the pipeline. And, as you hit areas that
9 have -- it's essentially based upon size of building and
10 number of buildings. So, if you're running the pipeline
11 and it's going through a field, it's not a High
12 Consequence Area. But, in this situation, you get to a
13 large building, which is a factory, that has a lot of
14 people working at it, the consequence of that area is much
15 higher. So, that becomes a "High Consequence Area". So
16 that those are the types of areas that you need to assess.
17 And, as you can see, they can be rather short. But our
18 approach is, as we've stated, is to expand, you know, and
19 assess in between these HCAs.

20 CMSR. BELOW: And, about what is that
21 distance?

22 MR. SPRAGUE: This distance right here?
23 This distance is probably --

24 CMSR. BELOW: No, not the length of this

1 pipe, the distance on either side of the pipe, if you get
2 within a factory with 20 or more people? What's the
3 corridor, if you will, to measure, to determine whether
4 it's an HCA?

5 MR. SPRAGUE: I forgot off the top of my
6 head.

7 MR. LEBLANC: It's 660 feet.

8 MR. SPRAGUE: That's right. And, that's
9 specified in the Code, in the DOT Code.

10 CHAIRMAN GETZ: Let me just make sure I
11 got the proportion of these numbers straight. So, there's
12 38 miles approximately of pipeline in New Hampshire?

13 MR. SPRAGUE: Approximately, yes.

14 CHAIRMAN GETZ: So, about 5 miles of
15 that would be HCA?

16 MR. SPRAGUE: Correct. Okay. Turning
17 to Page 12, this is just a picture to give you some idea.
18 So, when we talk about the Integrity Management Plan in an
19 IMP project, this pipeline was originally installed back
20 in the 1960s. And, when pipelines were installed at that
21 point in time, they weren't -- they didn't necessarily
22 have the eye towards running a mechanical robot through it
23 to measure the inside of it. So, in order to do that, and
24 in order for the pig to be able to fit through, we need to

1 go through and replace any valves or any fittings that
2 might be in the pipe that won't allow the pig to get
3 through.

4 In addition to that, we have to -- we
5 have to install what's considered a "launcher" and a
6 "receiver". So, you put the pig in one spot. It travels
7 along with the flow of the gas, and then it ultimately
8 comes out another spot. So, these -- that's what an IMP
9 project would look like. And, this would be over, you
10 know, a rather long distance.

11 Then, what the pig does is the pig, as
12 described, provides a whole lot of data. The pig always
13 knows where it is. It measures, if it finds an anomaly,
14 it knows exactly where it is. So, then, you go back --
15 then that data is analyzed and says, "okay, you have one
16 anomaly." You go back and it tells you exactly where it
17 is. You dig up that section and replace that anomaly.

18 Turning to Page 13, the next project, so
19 that was the -- IMP is the first project. The next
20 project that we'll talk about is disbonded coating. And,
21 this disbonded coating, this was originally identified by
22 NiSource, and then has since been verified by Unitil, as
23 we've done with most of the things that they've told us.
24 And, this is this section that runs through Stratham,

1 starts kind of at the Stratham/Exeter border, goes through
2 Stratham, up into the Greenland area, which is the blue
3 highlight on your map. And, "disbonded coating" is just
4 that. The pipes that are -- the transmission pipes that
5 are installed in the ground are steel, but they have a
6 coating over them to help protect them from corrosion over
7 time. And, once that -- once that coating starts to fail
8 for various different reasons, you can't or you can no
9 longer achieve proper corrosion control for that. You
10 can't protect that pipe anymore. So, it's at more risk
11 for corrosion.

12 And, this could be caused by several
13 different things. It could have been improper
14 installation at the time of the coating. Normally, what
15 you would do is you would buy the pipe from the factory,
16 which has the coating applied in a controlled setting on a
17 nice brand-new, clean piece of pipe. This section of
18 pipe, when it was installed, was actually installed as
19 bare steel pipe, and then the coating applied in the
20 field. So, once you remove the -- once you remove that
21 controlled environment for installing that pipe -- or, the
22 coating over the pipe, it -- you insert a lot of other
23 problems or future problems. You know, with the coating
24 adhering to the surface or, you know, over time just

1 breaking down. And, once that -- once it actually
2 separates itself from the pipe, it creates a pocket in
3 there, moisture gets in and further corrodes the pipe.

4 So, there's several different
5 alternatives for this pipe. You could replace it, which
6 is what we've proposed to do. You could reapply the
7 coating in the field. But, we, in analyzing this, we
8 ruled it out as being way too expensive. You have to
9 expose the whole pipeline, clean the whole pipeline, now
10 you're trying to apply a coating to a pipe that already
11 has corrosion started. So, it's not a good situation and
12 manufacturers don't recommend that. Usually, in the
13 field, you might apply a coating over a shorter section
14 that you can control a little bit more.

15 And, another alternative was to remove
16 it from service. So, you'll see that in some of the
17 scenarios that we're going to talk about later. So, you
18 can imagine, if this pipe, this section of pipe was no
19 longer in service, then you would essentially be serving
20 this whole southern area, from the Massachusetts border up
21 through and serving the towns of Exeter, Hampton Falls,
22 East Kingston, and Seabrook, this whole area, which is
23 approximately 12,000 customers, from a single supply
24 point.

1 The third project that we have is the
2 Little Bay Bridge Project, which is the pink, the pink
3 highlight on your map. Right now, the pipeline is
4 actually suspended from the existing Little Bay Bridge.
5 And, it's on the -- what I'll call the "inside" of that.
6 DOT has come to us a couple years ago and said, you know,
7 "We're doing this project. There are several different
8 options." You can -- you can't leave it where it is,
9 because we wouldn't be able to maintain it, because it's
10 actually going to end up in the middle of the two bridges,
11 just the way it's going to be constructed. So, we
12 couldn't leave it where it is. So, we could relocate it
13 to the new bridge, once that new bridge was installed.
14 You could abandon it, again, like abandoning the disbanded
15 coating, you could abandon it, and essentially segment the
16 pipeline again, so you would have, you know, the one
17 supply for that area. Or, you can directional drill it
18 underneath the bay, which is -- which is the direction
19 that we've decided to go.

20 We hired an external consultant that
21 actually did the study for us to determine which is the
22 most cost-effective solution. And, it essentially came
23 down to relocating it to the new bridge, abandoning it, or
24 directional drill. The problem with relocating it to the

1 new bridge is that you have to inspect it four times a
2 year. And, I'm sure that some of you know that area, but
3 the Little Bay, in that area, going underneath that bridge
4 has some of the strongest currents of anywhere in New
5 Hampshire. So, it's not necessarily safe for our guys to
6 be out there on a boat, trying to look up, you know, 50 or
7 60 feet at a pipeline. And, it's not -- and, every three
8 years you have to do a close visual inspection of it,
9 which means you have to be up close enough to actually see
10 the pipe, touch the pipe, and look for any problems.

11 The directional drill not only allows us
12 to maintain the integrity of the pipeline, but also, in
13 the long run, ends up being the most cost-effective
14 solution, as opposed to, say, abandoning it and installing
15 a gate station in Maine, which has a bunch of different
16 risks.

17 And, all of this will be discussed as we
18 go forward. And, we believe, I mean, we're confident in
19 the numbers we've provided for this project, because
20 several years ago Maritimes & Northeast came through with
21 their pipeline. Which is a 30-inch pipeline, compared to
22 the, you know, compared to the 16-inch hole that we'd be
23 drilling, they came in with a 30-inch hole, and bored
24 under the river in that same general vicinity. And, we

1 actually got our prices from the same contractor. So, we
2 believe that the risk of the bore is rather low at this
3 point.

4 CMSR. IGNATIUS: Mr. Sprague?

5 MR. SPRAGUE: Yes.

6 CMSR. IGNATIUS: Have you had
7 preliminary or more extensive discussions with
8 environmental regulators about the possibility of doing
9 the directional drilling underwater?

10 MR. SPRAGUE: We've started that. And,
11 right now, there's no -- there's no "push-back" at this
12 point, we'll say. We don't have the permits, but we've
13 started those discussions.

14 CMSR. IGNATIUS: Thank you.

15 MR. SPRAGUE: The next page, on Page 15,
16 you can kind of see, the left-hand picture is what it
17 looks like now. The bridge on the left is the existing
18 Little Bay Bridge. The little bridge on the right is the
19 older bridge, the existing bridge that's now a footpath.
20 And, you can see where the red shows where our pipeline
21 goes. On the right-hand side, you can see they're
22 essentially going to duplicate what they have and make it
23 essentially four lanes in both directions. Keeping that,
24 the older bridge there, as a footbridge. And, you can see

1 kind of the angle of the bore at this point. I believe
2 it's a 2,500 foot bore that we're proposing.

3 Turning to Page 16 kind of summarizes
4 these three projects. And, there's been, you know, a
5 couple different cost estimates that were provided. And,
6 we just want to clarify those. There was -- there was
7 originally some cost estimates that were provided as part
8 of the Granite State Study. Those estimates were higher
9 level engineering type estimates that didn't have the
10 design work behind them. They're more of a budgetary type
11 of work. And, also within the study, those were unloaded
12 estimates. There were no overheads applied to those.

13 The current estimates, now we've had
14 another year or so, since these Granite -- since the study
15 estimates were done, to actually do some engineering and
16 to get some more firm quotes and, ultimately, more
17 accurate estimates. So, you can see, from an unloaded
18 standpoint, what we're -- what we have for estimates now
19 are a little less than \$500,000 different from where we
20 were when the study was filed. And, what we've done is
21 we've tried to, in order to support the financial
22 analysis, which has happened, we've also provided fully
23 loaded estimates. So, those would be loaded with the
24 non-direct costs associated with the project.

1 And, in all of the analysis now going
2 forward, the spending that we've done on Little Bay in
3 2010 was just a little bit to relocate the pipe away from
4 one of the bridge abutments. It's considered "sunk
5 costs", and so those have been removed from the analysis,
6 under all scenarios.

7 MR. EPLER: If I can just interrupt for
8 a moment. This is -- this review of the cost estimates is
9 important, particularly in light of the Staff memorandum
10 requesting an investigation. Because, if you look at the
11 second page, under the issues, the first concern outlined
12 by Staff was that "the capital investments for which
13 Granite has requested FERC approval to recover through a
14 capital cost surcharge significantly larger than what was
15 stated in the Granite Study." And, I think this chart
16 shows that that's not the case. That the cost that we
17 requested in the rate case were well within the estimates
18 that we use as the basis of the study.

19 CHAIRMAN GETZ: But how does that --
20 there's the question I think in the -- that Staff raises
21 about the -- on Page 26 of the Final Report, about the
22 \$4.75 million that's not included in the financial model
23 analysis. How does that play out in that?

24 MR. EPLER: With that, someone might be

1 able to discuss this in more depth, but what that was was
2 that's the disbonded pipe, the cost that was estimated to
3 replace the disbonded pipe. Now, in doing the study, that
4 cost was assumed for all the scenarios that were looked
5 at.

6 CHAIRMAN GETZ: All the scenarios or the
7 three that were --

8 MR. EPLER: For all the scenarios.
9 Because it was assumed that that needed to occur for all
10 -- that, in every scenario we looked at, and we'll get
11 into the matrix of the studies that we looked at, we
12 assumed in each one we would be replacing the disbonded
13 pipe. And, so, since that cost was the same in all
14 studies, it wasn't included in the study, because each
15 scenario would involve that. What Staff requested us to
16 do, subsequent to the study, most recently was to look at
17 not replacing that disbonded section, and to actually cut
18 the pipe up into several sections, three sections. When
19 you do that, since you're not replacing the disbonded
20 pipe, you're avoiding that \$4.7 million cost. So, then,
21 to compare that scenario, that new scenario, with the old
22 scenarios, you had to then add the \$4.7 million into the
23 old scenarios. So, we had to do those runs over to take
24 that into account.

1 The Staff asked us, in the initial
2 discovery request in that, and we provided an initial
3 response to that, but we did neglect, in doing that
4 initial response, we did neglect to put that additional
5 cost in. And, so, we reran the studies, to include that
6 cost in our Baseline Scenarios.

7 CHAIRMAN GETZ: Okay.

8 MR. SPRAGUE: So that --

9 MR. MEISSNER: I was going to say, it's
10 probably worth mentioning that the reason we're so focused
11 on the projects is really, I think, the purpose of much of
12 the study was to avoid undertaking one of more of these
13 projects. So, if we avoid integrity management, then that
14 has a savings associated with it. If we avoid the
15 disbonded pipe replacement or the Little Bay Bridge
16 replacement, there was a savings associated with it. So,
17 much of the goal of the study was to avoid the cost
18 associated with these projects in various ways. And, for
19 Little Bay Bridge and the disbonded pipe, the goal was to
20 actually just abandon those sections, so they don't exist
21 anymore or they're not part of the pipeline anymore.

22 So, that's why I think we're spending a
23 lot of time on the specific projects, because most of the
24 scenarios were designed to avoid these projects. And,

1 that's how the scenarios themselves were developed.

2 MR. EPLER: And, then, the overlay to
3 that is, if you avoid those projects, do you also change
4 the configuration of the pipeline, such that you're either
5 no longer subject to PHMSA, to the safety jurisdiction,
6 because you changed from transmission pressure to
7 distribution pressure, or have you somehow changed the
8 configuration of the pipeline so that you're no longer an
9 interstate pipeline flowing gas through interstate and
10 subject to the jurisdiction of the FERC. So, you're kind
11 of doing both things. You're looking to avoid costs,
12 avoid projects, and you're looking to see, if, in doing
13 that, and still being able to provide service, you can
14 also change your configuration somehow and change your
15 jurisdiction.

16 MR. SPRAGUE: So, now, I'll pass it
17 along to Mr. Stephens, who will discuss our approach to
18 the study.

19 MR. STEPHENS: Thank you, Kevin. So,
20 we're on Slide 18.

21 (Court reporter interruption.)

22 MR. STEPHENS: Thanks, Kevin. We're on
23 Slide 18. And, this section is going to talk about the
24 Granite State Study. We're going to go over the goal of

1 the study, the process that was utilized, some of the
2 actual work product, some interim work product that was
3 circulated and discussed with the engineering teams. And,
4 in addition, we're going to discuss some of the post study
5 work product that's just been mentioned, some of the
6 studies that included taking out a certain section of the
7 pipeline and compare --

8 (Court reporter interruption.)

9 CHAIRMAN GETZ: You may need to get
10 closer to the microphone.

11 MR. STEPHENS: So, in addition to
12 walking through the study, we're also going to talk about
13 some of post study analysis that was conducted, and that's
14 going to include some of the scenarios of the disbonded
15 pipeline being removed and compared to the Baseline
16 Scenario.

17 MR. EPLER: And, if I can just
18 interject, just to give it context, the Company hired
19 Concentric to help us coordinate the project overall, and
20 to help us with financial analyses. All the engineering
21 work was done, however, in-house by Northern or Unitil
22 personnel.

23 MR. STEPHENS: On Slide 19, Tom has
24 basically talked to most of these points, so I think I'll

1 spend just a short amount of time here, and focus on the
2 bottom of the slide, which is the issues that we had
3 identified to be analyzed, which included the reduction in
4 pressure; reconfiguring the pipeline, either at Little Bay
5 Bridge or at the state border; and we also looked at
6 implications associated with gas supply, marketers, and
7 also on regulatory issues.

8 I should mention here that we also tried
9 to have a process of a collaborative nature. Now -- and,
10 actually, let me go look at the next slide, which is Slide
11 20. And, this will focus on the process that we used for
12 the study, and I did this through a timeline.

13 So, the Commission order established
14 December 1st as the deadline for submission of the Granite
15 State report. However, there were two extensions that
16 were filed for and approved. And, so, one allowed us to
17 extend to January 11th. And, then, the second extension,
18 the Maine Public Utilities Commission set the deadline as
19 February 26, 2010. And, I should say that, in terms of
20 extensions, we, as with everything in this project, it was
21 a collaborative approach. Each of the stakeholders were
22 able to have an approach where everybody agreed to the
23 extensions.

24 In terms of the timeline, we spent some

1 time preparing, and we had our first all party meeting on
2 May 29th of 2009. And, then, we had approximately ten
3 meetings during the course of the project. These were
4 either all party meetings or they were engineering only
5 meetings. And, on -- it says here on February 26th we
6 submitted the report, but it might have been March 4th,
7 there may have been a electronic submission versus a
8 physical submission. But the report was submitted on or
9 about February 26, 2010.

10 And, I should mention one other date
11 that's not here. Is that, prior to having a meeting on
12 February 9th, in which all the parties came to Unitil and
13 we did a page-turn of the report, we sent the report out
14 on January 14th, 2010, so that we could have feedback and
15 everybody had a chance to look at the report prior to
16 coming to the Unitil office on February 9th to do a
17 page-turn of that report.

18 In terms of participants, the number of
19 people, both from the stakeholder community and from
20 Unitil that worked on this project was pretty significant.
21 From the Unitil perspective, there were at least eight
22 departments that focused on this project or touched it at
23 one point or another. Approximately 20 people from Unitil
24 worked on this project or some portion of this project.

1 In addition, there was significant time invested by
2 stakeholders. We had engineering meetings that were held
3 in Portsmouth that were fairly long and detailed, and we
4 had very good participation from engineering staff. And,
5 so, it was a very collaborative process. And, at that
6 point, we had also provided the materials ahead of time.
7 We put up a website, so materials would available for all
8 the stakeholders. We also had communication via e-mail.
9 And, there were some telephone communication as well.
10 And, we also sent some very thick materials via FedEx that
11 couldn't be e-mailed, so we also got distributed a lot of
12 engineering studies through the mail.

13 And, as I mentioned before, this
14 resulted in a submission of the report around
15 February 26th. And, then, subsequent to that, there's
16 been some additional analysis associated with new studies
17 and suggestions from Staff. And, what we're going to do
18 in this upcoming section is we're going to review the
19 results of the study, but also results of the post study
20 analysis that's been conducted by Unitil. And, so, we
21 tried to combine not just the study information, but also
22 tried to address the activities that happened post
23 submission of that study.

24 MR. EPLER: Also, just procedurally,

1 just to point out, at the very end, right before filing
2 the report, we had actually discussed with the parties a
3 third extension of time. And, I prepared papers to file
4 seeking an additional extension. And, the Maine
5 Commission indicated that they wanted the Company to go
6 ahead and file the report. I then went back to the New
7 Hampshire Staff and indicated that we could continue, to
8 New Hampshire and asked if they wanted an extension, and
9 was told to go ahead and file the Final Report. So, the
10 Final Report was filed. And, basically, there were no
11 comments received or no correspondence, until after, on
12 this issue, on the issue of the report from any party,
13 either in New Hampshire or in Maine, until we became
14 involved in the rate case, the Granite State rate case at
15 the FERC.

16 MR. STEPHENS: So, with that, I'm going
17 to turn it over to Tim, who is going to walk through some
18 of the detailed engineering analysis that was conducted as
19 part of the Study.

20 MR. BICKFORD: Thank you, Jim. I'm
21 going to begin on Page 23. And, before we -- before I get
22 into the scenarios and the results, I'd like to talk a
23 little bit about the process, the engineering analysis
24 process and some of the things that were considered.

1 First of all, when you do an analysis
2 like this, and you're breaking a system, such as this
3 integrated Granite System, into, you know, all these
4 different segments and you have all these different
5 scenarios, there are many things to consider. Some of
6 them, for instance, do you need new pressure regulator
7 station facilities? Do you need new gate stations? Do
8 you need new pipeline replacements? Do you have to --
9 what sections of the pipeline can be abandoned? And, what
10 types of technology, for example, horizontal directional
11 drill type techniques can be used to make some of these --
12 to facilitate some of these scenarios?

13 In addition, one of the biggest -- one
14 of the concerns that you have, and one of the things you
15 have to look at when you break this system up is system
16 reliability. Right now, as was mentioned earlier, there's
17 a lot of reliability. We have several -- we have three
18 gate stations that serve this system. If you start, you
19 know, breaking this system up into different segments with
20 one-way feeds, you'll lose that reliability. So, our
21 engineering staff had to consider that in these analyses.
22 Whether, you know, decrease some reliability, increase
23 risk and interruption of service. Whereas, today, if you
24 had some sort of a repair to make on the pipeline, you

1 have a secondary feed that you can sustain your customers
2 with. In some of these scenarios that we analyzed, you
3 lost that secondary feed. So, there's future or
4 additional cost considerations, if you have to -- if you
5 have to interrupt service with a segmented system. So,
6 those types of things were looked at in our approach.

7 CMSR. BELOW: Is there a way that you
8 value that? I mean, certainly, there's a lot of systems,
9 for instance, Manchester, Concord, Laconia, that are
10 served with a single lateral that doesn't have that kind
11 of redundancy. Obviously, redundancy is nice, but how did
12 you -- how did you value that?

13 MR. BICKFORD: I mean, we place a very
14 high value on it. I mean, as it is today, we, as was
15 mentioned earlier, when Kevin was talking about, for
16 example, pigging the pipeline, we have the luxury of being
17 able to have a secondary feed so that, you know, if we
18 have an anomaly, we can -- we can address that without
19 shutting the pipeline down.

20 MR. MEISSNER: If I may just clarify,
21 Commissioner, though. In terms of the financial analysis,
22 I don't believe we did value those things.

23 MR. BICKFORD: That's right.

24 MR. MEISSNER: They were valued only

1 qualitatively. So, the financial analysis does not
2 reflect an actual economic value associated with those.

3 CMSR. BELOW: Okay.

4 MR. SPRAGUE: But later on in the
5 presentation there are a couple of scenarios with some --
6 with some estimates for a different configure -- a
7 different configuration would have, say, on portable LNG
8 or emergency response, should something happen. So, we'll
9 get to some of those considerations.

10 CMSR. BELOW: Okay. Thanks.

11 MR. BICKFORD: I'm still on Slide 23.
12 So, as far as our approach, we took a -- kind of a
13 start-from-scratch approach. NiSource did have a
14 hydraulic model that we looked at, and we discovered a lot
15 of flaws in that model and didn't feel as though that it
16 would be an appropriate model to use to do this analysis.
17 There were errors such as incorrect pipe sizes, incorrect
18 pipe lengths, inaccurate demands and loads and things of
19 that nature. So, we discarded that model and built our
20 own. We took, you know, a kind of a start-from-scratch
21 approach.

22 And, so, the process was, the first
23 thing we did was we collected as much of the operating
24 history records and physical attributes of the pipeline

1 as, you know, our records permitted, collected historical
2 flow and pressure data. And, using that information, we
3 developed a new hydraulic model. And, this hydraulic
4 model I will say is very accurate. We were able to
5 calibrate it on two different -- two different test cases,
6 and the model proved to be accurate within 5 percent of
7 field results, which is actually better than industry
8 standards.

9 In addition to the hydraulic analysis,
10 we also had to do an analysis of all the physical pipeline
11 components and materials, so that we could make the
12 determination, when we were running through these various
13 distribution/transmission scenarios that we could
14 determine, you know, what segments of the pipeline had to
15 be lowered under this 20 percent of SMYS level that was
16 talked about earlier. So, we had to analyze, you know,
17 every segment of the pipeline. Unfortunately, over the
18 years has had several segments replaced, so it's not
19 really one continuous length and diameter of one
20 particular type of material and size. So, there's a lot
21 of components that had to be analyzed.

22 In addition to that, we also looked at,
23 you know, what future municipal projects would have a
24 major impact on the pipeline. And, as was pointed out,

1 the Little Bay Bridge was a significant project that was
2 identified.

3 Lastly, the -- I guess that's it.

4 Sorry. Well, I guess, lastly, we took that -- we did the
5 analysis. But, before we get to the results, there's a
6 matrix on Page 24 that kind of shows the different
7 groupings that we did analysis for. For example, Group 1
8 is also all transmission pressure. The way that -- sort
9 of the way the pressures that we have today. Either
10 integrated as it is today, separated at the Maine/New
11 Hampshire border, or separated at the Little Bay Bridge.
12 So, Group 1 is staying at the same pressure with those
13 different scenarios. Group 2 is -- was a distribution
14 system pressure scenario, where we lowered the pressure so
15 that all segments of the pipeline operated at 20 percent
16 of that SMYS level or less. Then, finally, we did a
17 series of analysis that was a hybrid, which was a
18 combination of the two. We would have, for example, some
19 studies would have, you know, one segment of the system
20 operating at transmission and another segment operating at
21 distribution.

22 MR. EPLER: If I could just comment
23 here. When you're looking at these various scenarios that
24 we looked at, for example, the separation at the New

1 Hampshire/Maine border, and the reason that was looked at
2 is to determine whether or not we can actually change it
3 from an interstate pipeline. Avoiding the small section
4 that, for now, that goes into Massachusetts, but basically
5 to separate the pipeline at the border and not having an
6 interstate pipeline, basically have two state --

7 CHAIRMAN GETZ: So, that's what I wanted
8 to understand. On the right side, for "integrated",
9 "separated at the border", "separated at Little Bay",
10 integrated is the way it currently is?

11 MR. EPLER: Yes.

12 CHAIRMAN GETZ: Separated at the border
13 would be purely a legal issue?

14 MR. EPLER: Yes. It would be a legal
15 issue, but the question is "can you operate the pipeline?"

16 CHAIRMAN GETZ: But in terms of the
17 scenario?

18 MR. EPLER: Yes, in terms of the
19 scenario.

20 CHAIRMAN GETZ: And, then, separated --

21 MR. EPLER: And, the reason to do that
22 would be solely to avoid FERC jurisdiction.

23 CHAIRMAN GETZ: And "separated at Little
24 Bay" was more a physical issue?

1 MR. EPLER: Yes. Yes. To determine
2 there if you could avoid the bridge crossing.

3 MR. MEISSNER: Just to clarify, though,
4 because I'm not sure if I heard the right thing.
5 Separating at the New Hampshire/Maine border was studied
6 as a physical issue.

7 CHAIRMAN GETZ: Well, I mean, you do it
8 physically, but to achieve the legal benefit of --

9 MR. MEISSNER: Correct.

10 CHAIRMAN GETZ: -- of being exempt from
11 FERC jurisdiction.

12 MR. MEISSNER: Correct.

13 CHAIRMAN GETZ: So, that was the impetus
14 for that. Where the impetus for the Little Bay separation
15 is the physical cost that the bridge is going to change
16 and you have to do something?

17 MR. MEISSNER: Correct. Yes.

18 MR. BICKFORD: I'm still on Slide 24.
19 In addition to -- I'm sorry, 25. Some of the additional
20 engineering tasks included engineering cost estimates for
21 abandoned sections of pipeline, new gate stations and the
22 different scenarios. We have new ball valve regulator
23 additions, which basically means we'd have to add, in many
24 of these scenarios, additional pressure regulating

1 stations that are a little more complex than the normal
2 typical station. We -- just an engineering term, ball
3 valve regulator stations. The pipeline replacement costs,
4 you know, replacing disbonded or, in some scenarios, we
5 actually had to replace, to make a certain segment
6 distribution class, we actually had to replace the
7 pipeline, so the cost estimates were developed for that,
8 and the Little Bay Bridge crossing costs. In addition,
9 there's costs associated with pipeline integrity.

10 And, one other thing, we also looked at
11 system growth for these scenarios. We would, you know, we
12 would not only segment the system, let's say, for example,
13 into three different segments, we would look at that, you
14 know, from an engineering perspective, "can it be done?"
15 And, then, secondly, "how much load or how much growth
16 could that area accommodate?" And, we often did that to
17 the point what we call where "system instability" begins.
18 We would take a segmented system and grow it until you
19 started to have a problem, then we would stop and say "the
20 difference between those two scenarios is the potential
21 growth."

22 And, finally, there's the replacement of
23 the disbonded pipeline. Again, it wasn't really until the
24 latest round of requests that that segment was looked at

1 as a possibility of being abandoned.

2 On Slide 26, this matrix summarizes the
3 different scenarios that were run. So, for example, if
4 you're looking at a all-transmission scenario, where
5 everything operates at transmission pressure and, for
6 example, if you were to split it at the border, just draw
7 a line horizontally across, horizontally down, and that
8 will tell you the cost to achieve that operational
9 scenario. In addition, in some cases -- well, it also
10 shows you the growth, the growth potential, for those
11 scenarios. And, the ones highlighted in blue ended up
12 being the most cost-effective.

13 MR. FURINO: And, these are all, Tim,
14 these are all in millions of dollars, right?

15 MR. BICKFORD: That's correct. Sorry.
16 But I will say again, these scenarios do -- a lot of them
17 reduce our reliability, comes to, you know, right now we
18 have the luxury of having those three supplies, and we
19 have the luxury of being able to shut our pipeline down.
20 And, we'll talk in a little bit here about, you know,
21 planned and emergency shutdowns for a segmented system,
22 and what types of, you know, things are involved and the
23 costs that are involved in accomplishing that. Versus
24 today, where you can segment the system and shut down a

1 segment and still have a supply.

2 MR. MEISSNER: But, Tim, just to confirm
3 what we said earlier, those were not valued in this
4 financial analysis, correct?

5 MR. BICKFORD: Not at all. Not at all.
6 And, I'd like to make one more comment. We did a lot of
7 our growth scenarios, and I mentioned we -- we would take
8 the system to the point of where instability begins. And,
9 that's something that, you know, we had to draw a line
10 somewhere to have a benchmark on how to judge growth and
11 be consistent with it. But that is something that we
12 would not want to do. We would not want to grow a system
13 to that point where instability begins. So, it's a little
14 bit of -- you know, that should be considered, you know.

15 CMSR. BELOW: So, just -- could you
16 explain a little bit more about the growth on this chart
17 on Page 26?

18 MR. BICKFORD: Sure. Sure. Which, any
19 particular scenario that --

20 CMSR. BELOW: Well, take "Integrated
21 Transmission".

22 MR. BICKFORD: Uh-huh.

23 CMSR. BELOW: You've got Baseline 1 and
24 2, two costs, two growths. Does that mean that, under the

1 higher cost 3.4 million cost scenario, you have room for
2 40 percent growth?

3 MR. BICKFORD: What that is is the first
4 -- one of them is operating at normal pressures; the other
5 one is operating the system at its Maximum Allowable
6 Operating Pressure. So, normally would operate at a
7 normal pressure, I'm going to say, of 375 to 400. But, if
8 you were to take it up to the highest or the Maximum
9 Allowable Operating Pressure, you have more available
10 capacity. So, that's the difference between the two.

11 CMSR. BELOW: So, I guess I still don't
12 quite get it. Does that mean, operating at the maximum
13 pressure, the Baseline 2, the whole system could
14 accommodate 40 percent growth in load or peak load or --

15 MR. BICKFORD: If we were operating at
16 our Maximum Allowable Operating Pressure, it could.

17 CMSR. BELOW: And, then, "Split at the
18 Border" actually allows New Hampshire more growth, but
19 Maine less growth?

20 MR. BICKFORD: That's correct.

21 CMSR. BELOW: And, "Split at Little Bay
22 Bridge", now that's a single growth number. What does
23 that mean?

24 MR. BICKFORD: That's an overall, if you

1 split it at the Little Bay Bridge, you would have to have
2 a new gate station at Eliot, Maine. So, you would
3 essentially -- you essentially cut the system apart right
4 around in here [indicating]. So, there would be two feeds
5 in Maine and two feeds in New Hampshire that would allow
6 you to grow the entire -- it's a combined number, the
7 entire two states by 70 percent.

8 CMSR. BELOW: Okay.

9 MR. MEISSNER: One thing that may be
10 worth clarifying is, in terms of these growth numbers,
11 once you reach one of these thresholds, it doesn't mean
12 that the capacity of the transmission line is completely
13 used up. It's really just the point at which you would
14 have to do some other solution and incur additional cost
15 to add capacity.

16 MR. BICKFORD: That's right.

17 MR. MEISSNER: And, for example, if you
18 pursued Baseline 1, which gave you 20 percent growth, and
19 then you reach that threshold, you could theoretically
20 still install the gate station in Eliot, and then take
21 that growth up to 70 percent. So, it doesn't mean that
22 that's an absolute limit on the pipeline. It simply means
23 that's how much growth is available under any of these
24 scenarios without any additional projects to add capacity.

1 CMSR. BELOW: Until you hit some other
2 constraint?

3 MR. MEISSNER: Correct.

4 MR. FURINO: And, in the final
5 evaluation of the various scenarios, there was no -- no
6 credit or attribution for additional growth or no growth,
7 no penalties for, for instance, the 0 percent growth
8 scenario that you get with "hybrid" case and the "Split at
9 the Border" configuration. So, those are all handled
10 qualitatively.

11 MR. BICKFORD: Yes. Unless anyone has
12 any questions, that completes the "analysis" portion.

13 CHAIRMAN GETZ: Okay.

14 MR. FURINO: Okay. Turning to the
15 "supply analysis" section, move to Slide 28. And, I
16 wanted to introduce this by saying that this section of
17 the presentation reviews gas supply impacts and impacts on
18 retail marketers, and specifically how a change in Granite
19 would impact Northern's portfolio.

20 While the requirements of the study
21 separately listed gas supply costs and impact to
22 marketers, now, these are very much related. On one hand,
23 a portion of Northern's portfolio is assigned to
24 marketers. And, on the other hand, although Northern does

1 not directly supply transportation customers, they are
2 still our customers, and increases to cost to marketers
3 would be passed onto our transportation customers.

4 I first want to talk about Granite --
5 about gas supply in terms of the current state of Granite.
6 Northern is the primary shipper on Granite, and also ships
7 or holds capacity on several upstream pipelines, as you
8 can see on the list here. These pipelines deliver the
9 various supplies to Granite. As Kevin and Tim both
10 discussed, Northern can deliver into Granite at the north,
11 the south, and at the middle sections of Granite,
12 corresponding to Westbrook in the north,
13 Haverhill/Pleasant Street, in Massachusetts, of the south,
14 and Newington in the middle.

15 The current state of Granite allows
16 Northern to serve the aggregate load of the Maine and New
17 Hampshire Division customers using the portfolio on an
18 integrated basis. By virtue of being able to combine the
19 supplies with the redundancy that Kevin and Tim are
20 talking about, the integrated basis provides more value
21 than the sum of the parts, if you will, if we were
22 thinking about trying to supply segmented systems.

23 The portfolio provides access to
24 numerous supply areas in different parts of the country.

1 These supplies are delivered to Granite, and are largely
2 interchangeable in their ability to deliver to the
3 different areas that Northern serves. This
4 interchangeability provides redundancy, as we've been
5 saying, which provides security of supply and allows for
6 dispatch optimization. This provides value and reduces
7 costs and risks to customers.

8 If we turn to Slide 29, this table on
9 Slide 29 lists the firm shippers on Granite. They include
10 both Northern and Bay State, as well as several marketers
11 and an end-user. The shippers other than Northern hold
12 about 20,000 decatherms of firm capacity, or about
13 20 percent of what Northern holds, which is 100,000. In
14 addition to the listed marketers -- listed customers,
15 several marketers, such as Santa Buckley, Sprague, and
16 Hess, use Granite on an interruptible basis.

17 Granite receives annual revenue of
18 approximately \$1 million annually from parties other than
19 Northern. And, this includes about 700,000 from firm
20 shippers, and about 300,000 from the interruptible
21 shippers. So, that's the current situation with Granite
22 and Northern, and Northern's flexible use of its
23 portfolio.

24 Turn to Slide 30. As you've heard,

1 we've studied numerous alternative configurations and
2 pressure scenarios for Granite. The degree to which
3 Granite is reconfigured would serve to undo significant
4 value currently provided to customers from the portfolio
5 because of Northern's ability to interchange volumes along
6 Granite and control flows at multiple receipt locations
7 that it does -- that it has today under the integrated
8 design.

9 Under various scenarios, the cost to
10 customers include limiting access to favorably priced
11 supplies, lost opportunities to optimize daily dispatch,
12 more challenges and risk in managing balancing agreements
13 with upstream pipelines, and reduced reliability of
14 supply. I think we will be talking about reduced
15 reliability of supply, but it does come at a potentially
16 huge cost in terms of dollars for portable replacement
17 supplies and also for potential loss of service.

18 And, I think, as Kevin had said earlier,
19 if Granite didn't exist today, we would probably be here
20 with a proposal to construct it, which would allow us to
21 utilize our portfolio in an integrated basis, as we have
22 the opportunity to do now.

23 If we turn to Slide 31. As I mentioned,
24 cost to marketers will essentially be passed on to our

1 transportation customers. All the marketers, if you think
2 back to the -- look back to the list on the prior page,
3 have Pleasant Street, which is the Massachusetts
4 connection, interconnect, as a receipt point; again, this
5 is on the southern end of Granite and interconnects with
6 Tennessee. Supplies from Tennessee Gas Pipeline are
7 generally less expensive than supplies from the north, for
8 two reasons: New supplies are flowing in to the northern
9 side of Tennessee's system. These include supplies such
10 as Rockies Express and the Marcellus Shale. The other
11 reason, the second reason is that there are significantly
12 more competition in the Tennessee market area than there
13 is on the joint facilities, which is in the north. So,
14 the Tennessee market area has numerous suppliers and
15 competitors and has published index pricing. Whereas, on
16 the north side, there is no published index, and there are
17 very few shippers bringing lots of gas up there. So, it's
18 more of an oligopolistic constrained, less competition
19 type of market.

20 Restrictions on access to Tennessee
21 would likely cause marketers to restructure their upstream
22 contracts, resulting in increased costs that would be
23 passed on to customers. The same holds true for Northern
24 and would impact sales service customers.

1 Changes to Granite would also introduce
2 more complex scheduling and retail choice program
3 administration burdens. Taken together, these factors
4 could discourage some marketers from serving our
5 customers. Fewer marketers would mean less competition,
6 and less competition would mean higher costs for our
7 transportation customers. It is worth noting that, while
8 transportation customers include our major employers and
9 institutions that are vital to the communities that we
10 serve.

11 Unless there are any questions on gas
12 supply, that concludes my comments on that.

13 CMSR. BELOW: Well, I do have some
14 questions. These are all sort of directional statements.
15 Did you attempt to quantify any of these in any scenarios?
16 Did you try to model what some of these might look like,
17 in terms of dollar value?

18 MR. FURINO: So, in the course of
19 preparing the study that was filed last February/March,
20 no, there was no quantitative work that actually appears
21 in the study. It's all qualitative. So, while we all get
22 the sense that and we all understand that there would be
23 harm to the value of the portfolio, it's not been
24 quantified and it's not reflected in the cost values that

1 we present. We'll be talking about some of the more
2 recent post study scenarios we looked at. And, we have
3 got some quantitative analysis for gas supply costs in
4 those scenarios.

5 CMSR. BELOW: Okay. I mean, for
6 instance, in theory, you could at least look at the price
7 separation between the joint facilities supply point and
8 the Tennessee Gas Pipeline supply point over a course of a
9 year, correct?

10 MR. FURINO: Right. And, that's one of
11 the comments I was making or trying to make. Is that the
12 lack of a published index on the joint facilities makes
13 that a little challenge. There's not the transparency
14 that there is down on the Tennessee system.

15 CMSR. BELOW: Though, you presumably
16 have had some price quotes yourself, but they're not --
17 you're saying that it doesn't create a real history?

18 MR. FURINO: Right. So, we have an
19 operating experience of trying to purchase supplies. And,
20 we do purchase supplies off the joint facilities when it's
21 advantageous to us. But we know from experience that
22 there are very few marketers or suppliers selling gas on
23 the north end, and they know that, and that they're able
24 to extract economic rents as a result of it.

1 CHAIRMAN GETZ: So, you'll get into this
2 in these post study scenarios a little bit?

3 MR. MEISSNER: Yes.

4 (Chairman and Commissioners conferring.)

5 CHAIRMAN GETZ: I'm just trying to think
6 through the timing. Because I think we're getting close
7 to needing at least a 10 or 15 minute recess, and the
8 alternatives of talking a lunch recess and coming back or
9 taking a short recess and try to get through this. I
10 think we lean toward taking a short recess, perhaps after
11 we get through these scenarios, and before we get into the
12 legal/regulatory considerations and the conclusion. But,
13 gentlemen in the back, I don't know, did you -- were you
14 interested in making a public comment? We could do that.

15 MR. EMERTON: No, not at this time.

16 CHAIRMAN GETZ: Okay. Because we'll
17 give you the opportunity at the end of the day. I didn't
18 know if you had --

19 MR. EMERTON: Okay. Appreciate it.

20 CHAIRMAN GETZ: Okay.

21 MR. EMERTON: Thank you.

22 CHAIRMAN GETZ: All right. Well, then,
23 let's get through the scenarios, we'll take a 10 or 15
24 minute recess, and then come back to it.

1 MR. FURINO: Okay. So, to introduce the
2 scenarios, I'll turn it back over to Kevin and Tim.

3 MR. BICKFORD: Okay. I'm on Slide 33,
4 and this is regarding the post scenarios. We're calling
5 it "15" and "16". And, basically, what this is, is it's
6 -- 15 is keeping the system at transmission pressure, but
7 with abandoning the disbonded segment and abandoning the
8 Little Bay, the Little Bay Bridge crossing. Again, that
9 was -- that's keeping the system at transmission pressure.
10 So, you would have a one-way supply from Haverhill,
11 essentially to Exeter, New Hampshire. The middle segment
12 would be a one-way supply from Newington into the
13 Portsmouth area. And, then, finally, there would be a
14 two-way supply, we would have to add a new gate station on
15 the Eliot, in Eliot, Maine, across the border from New
16 Hampshire, so the Maine segment would be fed from two
17 supply points. Yes. And, in addition to that --

18 CHAIRMAN GETZ: Just a question about
19 timing. Were these studies done before or after Staff's
20 November 18 filing with the Commission?

21 MR. BICKFORD: After. I do want to
22 point one thing out. Because the Little Bay Bridge, in
23 Scenario 15, is abandoned, you do have a segment of
24 pipeline in New Hampshire that would be back-fed from

1 Maine, across the border, and serves approximately 10,000
2 customers in the Dover/Somersworth area. So, it's
3 important to note that the segmented Maine system would
4 feed back into New Hampshire.

5 CMSR. IGNATIUS: What's the consequence
6 of that? You make it sound like that's something that
7 would be of concern.

8 MR. BICKFORD: The consequence -- the
9 consequence is that if -- so, it's essentially a one-way
10 supply, a one-way feed -- this thing's not working anymore
11 -- into the system. There we go. So, it would be --
12 whereas, today, as I mentioned earlier, we'd have the
13 luxury of having two supplies in that area. It would be a
14 one-way supply back across the border into New Hampshire.
15 And, if we were to find an anomaly or had to do
16 maintenance on the pipeline, on that segment of pipeline,
17 we would have to find a -- we wouldn't have a secondary
18 source, and would probably have to do it with temporary
19 portable LNG, liquefied natural gas systems, and that
20 would be very difficult. I'll get into a little more
21 detail on that.

22 Scenario 16 is the same, but the only
23 difference being we lowered the pressure in the analysis
24 to distribution. Which cause us to have to replace a lot

1 of segments of the pipelines so that it would operate
2 under the 20 percent of SMYS mark. In addition, you know,
3 several new facilities would have to be installed.

4 I spoke -- I just spoke about, I'm on
5 Slide 34 now, and we talk about segmenting the system into
6 those three different segments. In two cases, first of
7 all, from Haverhill to Exeter, that would be a one-way
8 feed, as I mentioned earlier. And, if there was to be a
9 shutdown, whether it be planned or unplanned, again, you
10 don't have that secondary supply. You know, we have an
11 example here, I won't skip ahead too much here, but, in
12 the Exeter or on that Haverhill feed, we'd be looking at,
13 you know, a huge -- a huge event, if we had some sort of,
14 you know, repair to make. We'd be talking about 200
15 mutual assistance crews, for a seven to ten day
16 restoration, could cost as much as \$2.5 to \$3.5 million
17 just to make the repair.

18 Again, we have -- today, we have the
19 luxury of being able to sectionalize that. Let's talk
20 about the middle section, it's the same. Newington would
21 feed that one section. And, if you had an interruption in
22 that system, you'd be in the same situation, pretty much
23 the same number of customers. And, I will note that a
24 week ago today we had an emergency shutdown of the

1 Newington gate station. It was unplanned. It happened
2 very quickly. We lost supply for a couple hours.
3 Luckily, it was -- a supplier was able to make the
4 repairs. But, had that pipeline been segmented, as it is
5 in Scenario 15 or 16, we would have lost that system. We
6 would have lost, you know, approximately 10,000 customers.
7 And, again, as I mentioned earlier, the same is, the line
8 coming back across the border, in the third segmented
9 system from Maine, that would also lose the reliability
10 that we have today.

11 MR. MEISSNER: In terms of reliability,
12 it's probably worth pointing out that, you know, the types
13 of scenarios that could result in an interruption of
14 service, I mean, we could have a situation or a failure on
15 the pipeline itself, the Granite pipeline. We could have
16 an incident involving the gate station or the regulator
17 station feeding that portion of the system. Or, we could
18 have some sort of incident or supply situation involving
19 supply to our system externally. And, we have had those
20 situations in the past as well that I think Rob could
21 probably speak to.

22 MR. FURINO: Well, there are, you know,
23 there are different times when pipelines upstream are
24 going to have -- experience conditions on their system

1 that will cause them to post restrictions. And, you know,
2 when they post restrictions, it requires the companies
3 that are shipping on their pipeline to maintain, you know,
4 very strict tolerances with respect to their deliveries
5 and receipts on those upstream pipelines.

6 So, we had a recent experience with
7 Maritimes, had called and posted a restriction, and
8 Northern had been banking gas with them as part of our
9 OBA, our Operational Balancing Agreement, and had been
10 counting on drawing down those supplies. But they threw
11 up this restriction, without any evidence of what the
12 underlying problem was on their system, and this prevented
13 Northern from using those supplies to satisfy its demands
14 on some of the coldest days.

15 Now, because we had flexibility on the
16 system, we were able to bring supplies in at other receipt
17 points on Granite and offset that loss of our expected
18 supply.

19 CMSR. IGNATIUS: Could I ask one other
20 question? Other than the flexibility/reliability issues,
21 are there any safety issues in having a one-way feed that
22 are of concern?

23 MR. BICKFORD: Well, I think it becomes
24 a safety issue if you were to have, you know, a

1 significant pressure loss. I mean, obviously, I think the
2 things that come along with re-gasification of a system,
3 it depends on how many distribution systems it effects.
4 But, you know, certainly when we have loss in pressure,
5 you know, it's a safety concern, as well as, you know, a
6 concern about losing customers. There's certainly risks
7 involved with low pressure situations.

8 CMSR. IGNATIUS: Thank you.

9 MR. EPLER: Yes. If I could, I want to
10 emphasize this issue a bit, because sometimes, in the
11 engineering analysis, it can kind of sound dry. But, in
12 terms of the real consequences of it, it is very
13 significant. The situation that Mr. Bickford mentioned
14 before, in terms of Newington Station, if we had -- if we
15 had an operations where the pipeline was split, and there
16 was only a one-way feed, that would mean total loss to the
17 Portsmouth customers. And, you're talking about then,
18 once you restore that system, you have to go
19 house-by-house to relight those customers. So, and I'm
20 not sure of the exact number of customers we have there,
21 but that's a major undertaking on the part of any company,
22 to go into an urban area and have to relight all your
23 customers. So, that would have occurred if we had a split
24 pipe at, you know, either the border or at the bridge, in

1 that location. I mean, that's not something that's just
2 conjecture out there. So, in any of these scenarios where
3 you're talking about splitting the pipe, and you're going
4 to a one-way feed, you have that possibility, either under
5 an emergency situation or even if you have a planned
6 outage, where you have to take the pipeline out of
7 service. We have the pipeline crossing under the
8 Piscataqua at the border, and that will be mentioned
9 coming up in one of the scenarios. I mean, if it's -- if
10 we have to do certain work on that, for safety purposes,
11 analyze the pipe under the bridge there, and you don't
12 have a Little Bay Bridge crossing, you split it there,
13 then you've only got a one-way feed into the Dover area.
14 You lose service into Dover. Now, the only means of
15 replacing that service would be through the LP gas.

16 We actually had a situation in Fitchburg
17 two summers ago, where, because of construction work on
18 the pipeline, and that's a one-way feed system, because of
19 construction work on the pipeline, we had to have the
20 entire system supplied by LP. Now, first of all, it was a
21 tremendous engineering undertaking for our company. We
22 had advance notice of this, so we were able to plan for
23 it. In that situation, we actually have locations where
24 we have LP and propane/air facilities. So, we were able

1 to use those facilities and do the planning. But it's an
2 incredibly enormous undertaking. You've got to coordinate
3 trucks going in on a constant basis. Those trucks may or
4 may not be available on an emergency basis. Even in terms
5 of a planned outage, it was a very significant undertaking
6 to reserve those trucks and to reserve those supplies. It
7 was extremely costly. We were, again, through various
8 efforts, we were able to get the pipeline to pick up those
9 costs or a significant of portion of those costs, but that
10 was a several million dollar event.

11 And, so, when you add the possibility of
12 that cost to any of these scenarios, I mean, it overwhelms
13 the dollars involved. So that the significance should not
14 be downplayed. These are events that we have experience
15 on our system. And, so, the benefit of having an
16 integrated system, with multiple areas that you take gas
17 from, both on supply and operationally, it's a tremendous
18 benefit to the system, and one that you really want to
19 think very, very hard at moving away from. And, we've
20 said this internally to ourselves constantly as we've gone
21 through this study. If we had a bifurcated system, a
22 system that was split or a system that was at low
23 pressure, we would be researching now how to get to an
24 integrated system at the higher pressures, because of all

1 the benefits that we have.

2 So, a lot of that is sometimes hard to
3 capture in a study. When you're looking at the dollar
4 values, a lot of those qualitative issues are not captured
5 in the dollars. So, I just want to caution, in terms of
6 like when you go back and look at the matrix and you see
7 that some of the dollars look close, they don't capture
8 the qualitative benefit of the system supply and the
9 reliability and the safety that you get from an integrated
10 system.

11 MR. SPRAGUE: One discussion that we've
12 had with Staff, and it has been brought up today, is that
13 there are radial portions of our Northern system that
14 serve several thousand customers. But, in this situation,
15 or if we are to split the pipeline in several sections,
16 not only do we have those areas, but now we're exposing a
17 larger number of customers to other events that they
18 aren't exposed to now. So, it does have an effect on
19 reducing the reliability of, you know, say, you know, we
20 have a long -- we have a one, you know, a one-way feed
21 that, you know, goes from East Kingston, all the way down
22 into the Seabrook area, that serves about 2,000 customers.
23 You know, that's the only way that those customers are
24 served. If something happens there, we lose 2,000

1 customers, as it stands today. If something happens, if
2 we split, and, say, abandon the disbonded pipe, and
3 something happens along the Granite portion, that 2,000
4 becomes 12,000, which magnifies the restoration efforts
5 and the costs that much more.

6 MR. FURINO: And, Kevin, that's on the
7 Northern system, that isolation?

8 MR. SPRAGUE: Right.

9 CHAIRMAN GETZ: So, that would be -- I'm
10 sorry. That would be the area south of the disbonded
11 pipe?

12 MR. SPRAGUE: Correct.

13 CMSR. BELOW: So, that's on Page 34.
14 You -- it's more or less the worst case scenario, which is
15 you lose your whole distribution system south of the
16 disbonded pipe segment, because it's just one big radial
17 system. And, so, your estimate of "200 mutual assistance
18 crews", that's mainly for the restoration, going from
19 customer to customer to relight?

20 MR. SPRAGUE: Correct.

21 CMSR. BELOW: And, is that -- that's the
22 cost estimate and the time restoration would be your
23 estimate for these 12,000 customers what it would take to
24 restore service, once they lost pressure to the point

1 where you had to relight them?

2 MR. SPRAGUE: Correct. That's based
3 upon the number of relights that we think an individual
4 technician could do in a given day and the cost of that
5 technician.

6 CMSR. BELOW: Okay.

7 MR. MEISSNER: And, I believe the next
8 largest system is the Dover/Rochester system, correct,
9 where we have roughly 10,000 customers?

10 MR. BICKFORD: 10,000 customers.

11 MR. MEISSNER: Which, you know, under
12 these scenarios, would be fed radially under the river
13 from Maine, getting back to that discussion. So, the cost
14 and the restoration period for that area would be
15 proportionally similar to this. It would be 10,000
16 customers, instead of 12,000. So, you know, essentially,
17 80 percent or more.

18 MR. EPLER: Also, just to point out,
19 both the Fitchburg, Fitchburg Gas & Electric gas system
20 and the EnergyNorth system, while they have one-way feeds,
21 they also have peaking capability, which helps with
22 pressure drops and pipeline supply issues. We don't have
23 those peaking capabilities here. So, and if you think of
24 adding them, then you're just adding, you know,

1 significant costs, if you go through any of these
2 scenarios where you're splitting pipes, creating one-way
3 feeds, and then you want to add that peaking capability,
4 that's a significant investment, a significant cost. And,
5 you'd have to consider, I mean, do you have a location
6 where you could add that? And, what's the line of
7 acquisition costs? And, what kind of a response you get
8 from a community, without trying to, at this date and
9 time, you're trying to put in a peaking capability where
10 one is not already present.

11 MR. MEISSNER: Yes, that's a very good
12 point, because it also applies to a comment made earlier
13 with respect to the other gas systems in New Hampshire. I
14 believe the other gas systems in New Hampshire have
15 significant peaking capabilities and on-site production
16 capabilities of both propane and natural gas. And, we do,
17 as well, on Fitchburg. We have a liquefied natural gas
18 plant and we have a liquefied propane plant. So, we're
19 able to inject and deliver a lot of supply into our system
20 outside the pipeline. But, in the Northern system in New
21 Hampshire, that doesn't exist.

22 MR. FURINO: Yes. And, even leveraging
23 those facilities in Fitchburg during that period which
24 Gary was talking about, when the pipeline service to

1 Fitchburg was shut down, that was during a three-month
2 period over the course of a summer, Summer of 2009. And,
3 the cost of the vaporization equipment and the trucking
4 itself was approximately \$2.3 million for that three-month
5 period. And, that was a period during the summer, when
6 loads were low. And, the customer base in Fitchburg is
7 about 15,000 customers. So, about half of the number of
8 customers in each of the divisions for Northern, in the
9 New Hampshire Division and the Maine Division each with
10 25, 26 to 29,000 customers. So, that was a significant
11 expense for us, even though we had the facilities that we
12 could use to actually plug those trucks in and have the
13 supply enter the system.

14 CHAIRMAN GETZ: Okay. Is there more on
15 the Scenarios 15 and 16?

16 MR. BICKFORD: Sure. If I could start
17 off on Slide 35 please. As Mr. Epler pointed out, we did
18 have a planned event in Fitchburg, and there's a
19 photograph that shows the portable LNG facility in
20 Fitchburg. And, as he also pointed out, we do have a peak
21 shaving plant that's in Fitchburg, on the Fitchburg
22 system, that was also used at the same time. We talk
23 about Scenarios 15 and 16 and reliability, and what would
24 happen if we were to have, say, a planned event where we

1 needed to have one of these portable LNG facilities? And,
2 in most of the systems, there's no place to put it. As
3 you can see from this photograph, it's a pretty big
4 operation. Secondly, the biggest difference between this
5 operation and the photograph, and what we would need on
6 the segmented Granite System, for example, in the
7 Haverhill scenario of a one-way feed, if we were to have a
8 planned interruption, we're looking at a portable LNG
9 system that requires more pressure than something like
10 this can actually put out, there's only one unit in New
11 England that's capable of the pressures that we would
12 need. And, depending on the time of the year that we
13 would need it, it may not even be able to supply the
14 demand. So, that's, you know, a big concern.

15 MR. FURINO: You know, and, Tim, we say
16 "one unit in New England", but that unit travels
17 throughout the country.

18 MR. BICKFORD: That's correct.

19 MR. FURINO: It's not always in New
20 England.

21 MR. BICKFORD: Yes. It's not in New
22 England right now, I don't believe. And, again, there
23 really is no place to set up an operation like that. A
24 lot of this pipeline, especially in Maine and in southern

1 New Hampshire, is in the rural areas. You know, and
2 you're talking about setting up an operation that would be
3 bigger than what's in the photograph.

4 I want to talk a little bit about
5 Scenario 13A, which was one of the most economical
6 scenarios. It was strictly a split at the Little Bay
7 Bridge, with two supplies in New Hampshire. And, so, you
8 would have the disbonded piping would still be in place,
9 it would be replaced. So, we'd have a feed from Haverhill
10 to Newington and Newington back, split at the bridge, and
11 then a new gate station in Eliot, so you'd have two-way
12 supply in Maine. But you're still vulnerable on that leg
13 in New Hampshire that goes back across the border and
14 serve Dover and Somersworth. In addition, we would still
15 be required to do our IMP work. That's still required.

16 Again, to emphasize on this scenario,
17 the reliability and redundancy that we lose. And, the
18 other thing that I'd like to mention is that, you know, in
19 order to site a gate station and do all that IMP work, and
20 there's also a few other system improvements that would
21 have to be put in place, that we certainly, you know, in
22 the timing of the Little Bay Bridge Project, we certainly
23 don't have a whole lot of time to accomplish this kind of
24 work. It's a very short period of time to do a lot of

1 work, especially the gate station, which requires siting
2 and, you know, it can take quite a long time.

3 I'm on 37 now. And, I'm going to go
4 over Scenarios 15 and 16. And, just to remind everyone,
5 15 and 16 are the three segmented systems; one, 15 being
6 at transmission pressure and 16 being at distribution
7 pressure. Again, our concern are the risks associated
8 with losing our redundancy. You know, an emergency event,
9 as mentioned earlier, we estimate could cost as much as
10 \$3.5 million to handle, you know, in a seven to ten day
11 period of time. And, even a planned maintenance event, we
12 estimate could be as high as a million dollars. And,
13 again, as I mentioned earlier, the largest portable LNG
14 unit is typically not available, and does require a pretty
15 hefty reservation fee.

16 Again, you know, I know I've said it a
17 lot, but we have the flexibility now to conduct our
18 pipeline integrity work. We can shut down segments of the
19 pipeline to cut out valves and fittings that are
20 non-piggable. So, we can do that without interruption to
21 our customers.

22 And, in Scenario 15, for example, where
23 we would still be obligated to do pipeline integrity work,
24 we would really, you know, we'd be in a tough spot. We

1 wouldn't be able to have that flexibility to shut down our
2 system. And, again, the LNG, the portable LNG
3 requirements for pressure are just too high.

4 Should I touch on ---

5 CMSR. BELOW: On Page 37, the numbers
6 you have for "increased gas supply cost", are those an
7 annual estimate or example?

8 MR. FURINO: Yes, that's an annual
9 estimate. The \$1 million represents the cost of
10 approximately 10,000 decatherms of Tennessee capacity that
11 would no longer be deliverable to the Granite/Northern
12 combined system, because of the disbonded coating being
13 out of service and the smaller service area that that one
14 area feeds. So, that looked at our least economic
15 Tennessee capacity and release that on a permanent basis,
16 and it assumes some cost mitigation by releasing that and
17 obtaining back value for that, and then also replacing it
18 with capacity on the joint facilities.

19 And, then, the second piece of that is
20 the higher cost of the two. Being restricted from being
21 able to use Tennessee Gas Pipeline supplies is, you know,
22 we did provide some numbers to Staff and we conducted some
23 analysis on that. And, you know, the supplies in the
24 Tennessee area being brought to our system versus the cost

1 of replacement supplies on the north side of the system of
2 the joint facilities, times the volumes that would be
3 restricted, no longer deliverable from Tennessee, creates
4 this 2.5 million per year. And, that reflects all
5 customers, the sales service customers and also
6 transportation customers.

7 MR. BICKFORD: One thing I'd like to
8 point out is, as far as take away from Tennessee Gas goes,
9 as it is today, we have a lot of demand in the
10 Dover/Somersworth area that pulls a lot of that gas, you
11 know, from Tennessee. And, you know, we can back off
12 Newington to get more gas from Tennessee. But, in
13 Scenarios 15 and 16, as well as 13A, Dover/Somersworth is
14 isolated and fed from the Maine side, so you can't, you
15 know, you lose that demand. And, that's a big part of --

16 MR. SPRAGUE: So, where we haven't
17 quantified the gas supply impact of the Scenario 13A, it
18 is an increase over our Baseline Scenario right now, but
19 it's probably less than the Scenario 15 and 16 costs.
20 Just because there is -- you are maintaining, you know, a
21 little bit more load in New Hampshire under Scenario 13A
22 than you would in Scenarios 15 and 16.

23 CHAIRMAN GETZ: Okay.

24 MR. EPLER: I also want to underscore an

1 additional issue with respect to splitting at the Little
2 Bay Bridge. It requires, as has been mentioned, the
3 siting of a new station, Eliot station. And, while we're
4 able to give with some confidence an estimate of doing the
5 horizontal drilling and replacing that piece of pipe
6 that's now on the bridge and going underneath the river,
7 we have a very high degree of confidence in that, in part,
8 because there was a recent project, I believe within the
9 last two years, that also went under the Piscataqua. And,
10 so, we've approached the same company. And, so, under
11 very similar conditions, by the same company, we have an
12 estimate of cost.

13 For the Eliot station, it's only a rough
14 estimate. I mean, you've got permitting issues, site
15 location. We don't have land there now. So, the estimate
16 of cost is -- we just don't have a lot of confidence in.
17 So, that could be, you know, we could be off on that
18 estimate by a factor, and it's just an unknown. And,
19 also, you just don't know what kind of opposition you may
20 have in terms of siting. I'm sure the Commissioners are
21 very familiar with in other cases before it, siting of
22 facilities in this day and age is a very difficult thing
23 to undertake because of local opposition.

24 CMSR. BELOW: Well, did you provide an

1 estimate of that take station cost? I mean, you're
2 referring to it, I'm just not sure I notice the number for
3 it.

4 MR. EPLER: Yes. We could talk about
5 that in the financial analysis, but I believe our estimate
6 was about two and a half million dollars.

7 CMSR. BELOW: Okay.

8 CHAIRMAN GETZ: Speaking of which, the
9 Financial Model Analysis, are we ready for that?

10 MR. SIMPSON: I'm ready, if you're
11 ready.

12 CHAIRMAN GETZ: Okay.

13 MR. SIMPSON: I will get through this
14 quickly. The purpose of the financial analysis is, you've
15 heard throughout this morning talk of the different
16 scenarios that the Company has analyzed. And, each of the
17 scenarios comes with it its own set of capital projects,
18 you know, which translates into plant in service, and also
19 operating expenses. And, for each of the scenarios, these
20 capital projects and these operations expenses have their
21 own set of timings. They don't all occur in the same
22 year, they occur throughout time.

23 So, the purpose of a financial model is
24 to organize these, the timing of the capital projects for

1 each of the scenarios, and the O&M expenses for each of
2 the -- each of the scenarios. And, we're talking capital
3 and O&M related to the major engineering construction
4 projects, the take station, and the abandonment of the
5 pipe, and similar projects. But, for the integrity
6 management, there is also their own set of capital and
7 spending streams throughout time. And, it's specific to
8 the configuration of the pipe. What is at high pressure?
9 What's at low pressure? How things are integrated or not.

10 So, the financial model takes all of
11 these into consideration. It expresses the plant in
12 service for each year, for each scenario, plus the
13 operations expenses, in terms of a regulated revenue
14 requirement. And, then, the financial model calculates
15 the net present value of the stream of revenue
16 requirements associated with each of the scenarios. And,
17 in that way, we can do a quantitative comparison of the
18 different scenarios. Which, of course, doesn't get into
19 the qualitative considerations that Tim and Kevin have --
20 and Rob have talked about.

21 But I want to draw your attention to
22 Slide 40. That I think, first of all, I can say that this
23 financial model is well vetted. We have shared this model
24 with the Maine Commission -- Maine and New Hampshire

1 Commission Staffs and the OPA and OCA. And, as a matter
2 of fact, the New Hampshire Commission Staff found a minor
3 bug in one of the formulas. We fixed that. It didn't
4 have any effect on the conclusions, but it was, you know,
5 a good exercise that they went through to, on their own,
6 validate the calculations that we've made. And, we have
7 made, throughout time -- or, from the time that the report
8 was filed in 2010, based on the analysis we had done at
9 that time, we have made updates and revisions to the
10 model. Most of the updates have been for the purpose of
11 putting into effect suggestions and recommendations from
12 the New Hampshire staffs, you know, so that we could
13 consider the new scenarios that they wanted to look at
14 that would avoid having to pay for or to replace the
15 disbonded pipe, for example.

16 The table at the bottom of Slide 40 is
17 now. This is a summary representation of the results that
18 come out of the financial model. It shows, for each of
19 the five scenarios that are represented in this table, it
20 shows the net present value revenue requirement at two
21 decade intervals, 2020 and 2030. And, then, just for ease
22 of review, it also shows the ranking of those different
23 scenarios for -- at those decade milestones. And, all
24 things taken together, the revenue requirement present

1 valued impact of the integrity management projects and the
2 engineering capital projects, the *status quo* Baseline 1
3 project is the lowest cost option.

4 Again, in a way, this quantification
5 does not take into account the safety and reliability
6 considerations. And, also, let me add that, as Rob
7 explained, we have included, in the financial analysis,
8 quantification of the gas supply impacts for the scenario
9 in which the disbonded -- in which the pipeline was
10 abandoned at the disbonded segments. But we have not
11 quantified the gas supply impacts of the scenarios where
12 the pipeline would be split at Little Bay Bridge, so that
13 we could avoid the costs of the Little Bay Bridge
14 crossing.

15 So, what that means is that the
16 financial model results for Scenario 13A and Scenario 5 on
17 this table are understated, because we have not -- we have
18 not quantified the gas supply impacts for -- associated
19 with those scenarios.

20 That's all I wanted to say about the
21 financial model.

22 CMSR. BELOW: Well, just one quick
23 question. Your first bullet on Page 40 says that the
24 Scenarios 15 and 16 "were added", but they're not in the

1 table at the bottom?

2 MR. SIMPSON: That is correct, because
3 those scenarios are so expensive, they are sort of "off
4 the chart", literally and figuratively. They're very --
5 all things considered, what has to be done to deal with
6 the implications of Scenarios 15 and 16 is that they are
7 very expensive scenarios, both gas supply and the
8 engineering-related considerations.

9 CMSR. BELOW: But do you have numbers to
10 support them? I mean, did you run them through the model?

11 MR. SIMPSON: Absolutely, we did.

12 CMSR. BELOW: Okay.

13 MR. SIMPSON: And, I don't have it in
14 front of me right now. But I can tell you that Scenario
15 15 is at least double the cost of the Baseline Scenario.
16 And, I say "at least", because there are different
17 interpretations between the Company and the Staff as to
18 the gas cost implications. But, at the most conservative
19 way of estimating the gas cost implications, the Scenario
20 15 is double the cost of the Baseline Scenario.

21 CMSR. IGNATIUS: But I thought you were
22 making a point that you hadn't included the gas cost
23 repercussions --

24 MR. SIMPSON: I'm sorry, I wasn't clear.

1 CMSR. IGNATIUS: -- at 13A and 5, so why
2 are they necessarily included, and the other, being 16 and
3 15?

4 MR. SIMPSON: Because those were --
5 well, I'll start, and maybe Mr. Furino has something to
6 add. That 15 and 16 were new scenarios that were just
7 started to be considered in the last couple of weeks.
8 And, you know, they did get some traction, because there
9 was some -- it did seem slightly logical that, if you
10 could avoid having to replace the disbonded pipe, that
11 that would be a significant cost savings. If you could
12 avoid having to deal with the Little Bay Bridge crossing,
13 that would be a significant capital savings. And, so,
14 then, the question became "Well, what are the other
15 implications of Scenarios 15 and 16? And, do those other
16 implications outweigh the savings that are associated with
17 15 and 16?" And, the quick answer is, you know, it, on
18 its surface, 15 and 16 looked interesting enough that the
19 full analysis was done, I think is the simple way to say
20 it.

21 MR. MEISSNER: I mean, I think one of
22 the things that factors in just simply is 15 and 16 I
23 think were studied over the last two to three weeks maybe,
24 and I think 13A is an alternative was raised again only in

1 the last one or two days. And, so, I don't think there
2 was time to actually evaluate the cost of that
3 alternative. It was re-raised, I guess, in the last
4 couple days. So, some of this was just truly last minute,
5 preparing for the presentation.

6 MR. EPLER: Well, I don't want to give
7 the impression that it wasn't studied. We performed these
8 studies for the initial report. There were no additional
9 questions at the time we submitted the report or after
10 submitting the report. I believe, probably in terms of
11 timing, I guess, as a consequence of some issues that came
12 up as a result of the rate case at FERC for Granite State,
13 the Staff issued its memorandum on November 18th, many
14 months after we finished the report and many months after,
15 you know, our last conversations on these issues. So, we
16 were requested to undertake a new scenario. The Staff,
17 you know, as part of this process that we're here before
18 you, the Staff issued a number of data requests, and, as
19 part of that, basically asked us to undertake a new study.

20 Internally, in our shop, we didn't think
21 that the new scenario that was requested was a viable one,
22 but we undertook the study nevertheless, and we got the
23 results that it showed. And, in order to demonstrate
24 fully the -- that it wasn't a viable alternative, we had

1 to go and include the gas costs to demonstrate that there
2 were significant issues that would affect gas supply, gas
3 supply costs significantly. And, so, we worked, and we
4 worked in concert with the Staff in developing the
5 estimates of those gas supply costs. So that, when you
6 add them to that scenario, it shows that the cost
7 comparison -- I mean, continuing the integrated analysis,
8 running it as an integrated pipeline as it currently is,
9 is much cheaper than this new scenario that we were asked
10 to run.

11 Subsequent to that, and we had a
12 conversation with Staff where they acknowledged that, that
13 that scenario was no longer viable. They then --

14 CHAIRMAN GETZ: That scenario being?

15 MR. EPLER: The 15 and 16, having three
16 separate, independent segments. Subsequent to that, they
17 indicated that there was still interest in looking at what
18 we've indicated here is Scenario 13A, splitting it at
19 Little Bay Bridge. And, so, we -- but that conversation
20 was, I believe, Wednesday afternoon. And, so, in quickly
21 preparing for this, we went back to that analysis to take
22 a look at it. And, the difficult -- the problems that
23 that scenario presents are those that were pointed out
24 previously, in that you create a one-way feed, and you

1 have those reliability and safety concerns by creating
2 that one-way feed in the Dover/Rochester area. There are
3 -- because it's a split of the pipe, and you can't run it
4 as an integrated system, it also has gas costs, some type
5 of gas supply costs. We didn't do the specific analysis
6 on gas supply costs for that scenario that we had done for
7 15 and 16, because there simply wasn't enough time. But
8 just the fact that you were splitting the pipe means that
9 it has some impact. It's not an equal comparison. There
10 is some impact on that, so that would have to be factored
11 into the cost of service analysis that's done, that shows
12 you as those two scenarios being relatively close.

13 CHAIRMAN GETZ: Okay. Let's take about
14 a 15 minute break.

15 (Whereupon a recess was taken at 12:38
16 p.m. and the hearing reconvened at 1:00
17 p.m.)

18 CHAIRMAN GETZ: Okay. Mr. Epler, I
19 guess we're --

20 MR. EPLER: Yes.

21 CHAIRMAN GETZ: Unless there's something
22 more on the financial model, we're up to the legal and
23 regulatory analysis, and I guess, after that, the
24 conclusion. Though, I think we've gotten a head-start on

1 that a couple of times already.

2 MR. EPLER: Right.

3 (Laughter.)

4 MR. EPLER: Well, as we said, for us
5 internally, after doing this study for a while, it did
6 become -- we believe it became obvious. Okay. Well,
7 talking about some of the legal and regulatory
8 considerations, some of this has been mentioned before
9 during different parts of the discussion, so I'll try to
10 go through this quickly, also in the interest of time.

11 Basically, as was indicated at the
12 outset, Granite State's engaged in the transportation of
13 natural gas and interstate commerce within the meaning of
14 Section 2(6) of the Natural Gas Act, and, therefore, it
15 falls under the regulatory jurisdiction of the Federal
16 Energy Regulatory Commission. And, here I'm going to
17 focus mostly on the FERC jurisdictional issues.

18 So, what that means is that the rates
19 and terms of service are subject to the FERC, and the
20 corollary to that is that the rates and terms of service
21 are not subject to the jurisdiction of the states.
22 Moreover, the states do not have the authority to order an
23 interstate pipeline to change its jurisdiction. That
24 authority is with the FERC. The FERC would determine

1 whether an interstate pipeline should no longer be subject
2 to its jurisdiction, and it would go through an
3 abandonment process under Section 7(b) of the Natural Gas
4 Act. And, that can be accomplished different ways,
5 either, as we've discussed, by actually reconfiguring the
6 facilities so that they no longer are interstate
7 facilities. There are also a couple of provisions where
8 you -- where the pipeline, even though it has some
9 interstate characteristics, jurisdiction is given over to
10 the states. There is an -- what's called an "area
11 determination", that's Section 7(f). And, there's also a
12 thing that's been commonly referred to as a "Hinshaw"
13 pipeline, where, again, under certain characteristics,
14 even -- again, even though it's an interstate pipeline,
15 jurisdiction over that facility and the gas that's flowing
16 over that facility is given to the states. The FERC looks
17 for different kinds of things, but there are
18 qualifications that you'd have to show in order to meet
19 those criteria.

20 Should there be a desire to change, that
21 has to be volitional on the part of the interstate
22 pipeline. As I said earlier, that an interstate pipeline
23 subject to FERC cannot be ordered by the states to change
24 its jurisdiction.

1 And, that's a significant point, because
2 that relates to the Settlement Agreement that the Company
3 signed and where the provision for undertaking the study
4 appears. That Unitil, as the parent company in signing
5 the agreement, did not agree that it would change the
6 jurisdiction, the configuration or the jurisdiction of
7 Granite, with no conditions. It was a conditional
8 agreement to do a study and to determine if there were
9 operational reliability costs and general public interest
10 considerations that would support such a change. And, if
11 those conditions existed, it would then look at the
12 potential of going before the federal agencies and seeking
13 a change in jurisdiction. And, so, at the initial -- at
14 the outset of the study, the Company met with its FERC
15 counsel, and we had an initial, very preliminary analysis
16 done of the alternatives that I mentioned before, the
17 Section 7(f) determination and the Hinshaw possibility.
18 And, essentially, the information that we received is
19 outlined starting at Page 32 of the Granite State report.
20 We just -- we got a very high level analysis from outside
21 FERC counsel, and we really didn't go into detail into the
22 possibilities, because at that point we thought it was
23 very premature, because the driver, based on what's in the
24 Settlement Agreement and what we were looking at, were

1 these operational configuration changes. And, so, after
2 having that, getting that initial information, we then
3 turned the attention of the study to the engineering
4 analysis. And, therefore, once it became very evident to
5 the Company that there were no operational savings or
6 reliability savings or benefits, and, again, you know,
7 looking at the specific criteria that's laid out in that
8 paragraph that I -- that's quoted on Page 42 of the
9 handout, the consideration of planning, costs, operations,
10 management of supply, access for third party suppliers,
11 reliability, safety, and public interest, looking at all
12 those considerations, and given what we've tried to
13 explain today, there was a determination not to pursue a
14 change in the status of the pipeline as an integrated
15 interstate pipeline. And, so, we didn't pursue further
16 any legal analysis. So, that's where the core legal
17 analysis stands.

18 And, there has also been -- so, there
19 has been some concern expressed that there isn't a more
20 in-depth legal analysis. Whether, even if assuming that
21 the Company was in favor of seeking a change of
22 jurisdiction, for -- because one of the studies or a
23 change in operation was seen to deliver benefits, it is
24 not guaranteed that such an application for change at the

1 federal agency would be successful. There is no very
2 specific case on point that gives, you know, an exact fact
3 situation that Granite presents itself with a pipeline
4 that crosses three states, where the gas flows both from
5 Massachusetts, from Maine, from points in New Hampshire,
6 through the system. There is -- you cannot point to any
7 one point along the pipeline and conclude that gas
8 entering into the state only stays within the state, gas
9 flows across the boundaries, going both north and south.
10 So, there's no exact fact pattern at FERC currently. So,
11 it's not clear whether or not FERC would grant the
12 exemption, unless there was some clear change in
13 configuration that changed the nature of the interstate
14 pipeline. So, it is an unknown, even if the Company
15 willingly decided to seek such a change from the FERC.

16 So, because of the results in the study,
17 the Company determined that it wouldn't be cost-effective
18 to try to pursue having a more in-depth legal analysis.
19 There was just no need to take that further.

20 With respect to regulatory costs, there
21 has also been concern expressed by both participants in
22 Maine and here in New Hampshire about the regulatory costs
23 and the concern that regulatory costs that ultimately are
24 borne by customers are higher, if the Company continues

1 with its operation as a federally regulated pipeline, as
2 opposed to somehow coming under state jurisdiction. We
3 think that that's highly questionable. One is, it's not
4 clear whether or not there would be any less regulatory
5 filings. While there's clearly a cost to filings, if the
6 pipeline were made part of the states, there are costs
7 associated with the issues that we discussed, such as the
8 Integrity Management, the Little Bay Bridge crossing, or
9 the replacement of the disbonded pipes. And, so, the
10 timing of recovery of those costs might be such to add to
11 regulatory filings on the part of Northern, if it was an
12 integrated pipeline. So, it's not clear that, just
13 because you're at FERC, you're experiencing more or higher
14 costs, regulatory costs, than you would if you're
15 regulated by the states.

16 There are also additional cost
17 considerations that have to be taken into account, and
18 those are the allocation of costs, if there was an attempt
19 to make the pipeline part of the Northern facilities and
20 regulated by the states. Allocation issues have often, in
21 the past, our understanding, at least under NiSource
22 ownership, the previous ownership, have been somewhat
23 thorny. And, while there may be best intentions at the
24 outset to try to allocate those costs equitably between

1 the states, it's not necessarily so. It's nothing that
2 can be guaranteed. And, there's a possibility of disputes
3 down the road. And, the concern, on the part of the
4 Company, is that, effectively, it may lose opportunities
5 to recover costs because of differences between the
6 states. And, it's a significant financial risk upon the
7 Company to proceed in that manner.

8 So, we feel that the regulatory cost
9 issue is not one that should be given much weight, in
10 terms of a determination as to which direction to go, and
11 it was mostly discounted, in terms of the analysis.

12 The other thing to point out, in terms
13 of regulatory costs before the federal agencies, a lot of
14 that is driven by the participation of intervenors. A
15 significant part of a rate case cost is responding to
16 discovery, both on the part of internal staff resources
17 and if there are any external consultants hired by the
18 Company in pursuing rate cases and similar cases. And,
19 so, those are considerations.

20 If regulatory costs are -- as regulated
21 costs have been raised as a concern, I mean, the Company
22 did move forward in its filing at its last regulatory
23 filing at FERC where it presented a plan to have,
24 basically, an added tariff factor to account for the large

1 construction projects that it was facing, and, therefore,
2 to allow compensation through that factor and avoid rate
3 cases. But that was not accepted or agreed to by the
4 intervenors, by the states and by the public advocate's
5 office, so that's a cost-saving opportunity that was lost.
6 And, so, in order to recover the construction costs that
7 we're talking about, the Company will have to file
8 additional rate cases. And, we hope that there are
9 mechanisms and procedures that can be employed to try to
10 keep those costs at a minimum, and that the Company would
11 certainly look in favor of trying to meet with the -- meet
12 with the state staffs before filing, and try to see if
13 there are issues that can be settled beforehand, and
14 possibly try to approach FERC with a settlement of those
15 issues. So, again, a lot of that depends on the
16 willingness of the parties to engage in efforts like that
17 and to try to keep costs at a minimum. It's not something
18 that's wholly within the control of the Company.

19 And, that's all I have to say on that
20 subject.

21 CHAIRMAN GETZ: So, then, we're prepared
22 to move on for other comments? Anything further?

23 MR. MEISSNER: It might be worth just
24 spending one minute on conclusions. I won't rehash

1 anything we talked about. But I did want to bring it back
2 to what we talked about at the beginning. Which was, we
3 came into this study really from an engineering and
4 planning perspective. That was the objective of the
5 study. And, we approached this study from the standpoint
6 of making a physical or operational change to the pipeline
7 that would avoid costs that didn't otherwise need to be
8 incurred. So, that was really the goal of the study.

9 I think the primary objective coming in
10 was to de-rate the pipeline or reduce the operating
11 pressure of the pipeline, in order that it would fall
12 outside the definition of a jurisdictional transmission
13 pipeline. And, we determined, I mean, coming into it, we
14 thought that that would probably be feasible. We
15 determined it's really not economically or operationally
16 feasible.

17 We did also look at alternatives to
18 change the configuration of the pipeline to avoid other
19 types of costs, like Little Bay Bridge Project or the
20 disbanded pipe and the Integrity Management costs. But,
21 at the end of the day, what we found was that the
22 pipeline, in its current configuration and operating at
23 its current pressure, is the least cost alternative,
24 without factoring in any of the qualitative things we

1 talked about, like reliability, like operational benefits,
2 like supply. All of those qualitative benefits also favor
3 the pipeline in its current configuration. None of those
4 were incorporated into the financial analysis itself.

5 So, from our standpoint, the pipeline in
6 the current configuration is the clear winner, both on the
7 basis of cost and on the basis of all the qualitative
8 factors. And, while we did evaluate a few new scenarios,
9 referred to as "15", "16", and we revisited 13A, none of
10 those scenarios fundamentally change that conclusion from
11 the original study. Thank you.

12 CHAIRMAN GETZ: All right. Thank you.
13 Who would like to go next?

14 MS. FABRIZIO: I think it may be me.

15 CHAIRMAN GETZ: Ms. Fabrizio.

16 MS. FABRIZIO: Before I begin my more
17 formal statement, I'd like to address a couple of the
18 issues raised by the Company today. The Company counsel
19 has suggested that the cost -- the project cost difference
20 highlighted in Staff's memo are not as significant as they
21 are in reality. But Staff would note that the fully
22 loaded costs that were shown on Slide 16 today were not
23 provided during the course of the study. And, when the
24 Company filed its rate case at FERC four months later,

1 Staff noted that the project costs had actually increased
2 by about 30 percent. It was the cost differential in the
3 FERC filing, as well as the anticipated increase in IMP
4 costs occurring at changes that are going on at the
5 federal level that triggered Staff to raise its concerns
6 and look more closely at some of the issues in this
7 proceeding during the course of the FERC rate case. We
8 would also note that, as we've stated in the memo that was
9 filed on November 18th, that, although the parties
10 participated in discussions throughout the study process,
11 and it was a collaborative effort to some extent, the
12 final report itself represents the analysis and
13 conclusions of the Company, and not necessarily that of
14 either the Maine or New Hampshire staffs.

15 And, finally, on the scenario analysis
16 that you saw presented today, regarding the most recent
17 scenario changes and analysis, Staff did not actually see
18 the results of that analysis until this morning. So, we
19 will continue to look and reassure ourselves on the cost
20 studies that we've done so far with respect to that
21 analysis.

22 CHAIRMAN GETZ: Is that for 15, 16, and
23 13A?

24 MS. FABRIZIO: Yes. Okay. Since filing

1 its memo on November 18th, Staff has continued to work
2 closely with the Company to resolve the issues raised in
3 the memo. The most pressing being whether it's in the
4 public interest to replace or retire the approximately
5 7 miles of disbonded pipe on the Granite System. The
6 study filed as part of the merger proceeding in this
7 docket did not include a look at the costs and benefits of
8 retiring that section of disbonded pipe and operating the
9 system at reduced pressure to avoid Pipeline Integrity
10 Management costs. With the Company's cooperation in
11 preparation for today's hearing, the analysis of the
12 disbonded pipe project is now much closer to completion
13 and the results preliminarily suggest that replacing the
14 pipe may be the most cost-effective option at this time.

15 Staff and the Company analyzed the
16 additional gas supply costs that would be incurred if the
17 disbonded pipe were retired. And, our analysis indicates
18 that those costs could exceed 2 million per year for at
19 least the next eight years, which is when Northern's
20 contract for PNGTS capacity expires. It is Staff's
21 expectation that Pipeline Integrity Management costs are
22 likely to increase significantly as a result of recent
23 transmission line failures, in Marshal, Michigan;
24 Romeoville, Illinois; Hanoverton, Ohio; and most notably

1 in San Bruno, California. But those potential costs are
2 not reflected in the analysis conducted thus far. As
3 you've heard today, federal safety regulations require
4 immediate Integrity Management assessments to be completed
5 on all interstate transmission lines by 2012, with
6 remedial action plans to be finalized and implemented
7 based on the results of those assessments. Given the
8 relative certainty of the additional gas supply costs,
9 versus the uncertainty of the potential increase in
10 Pipeline Integrity Management costs, the decision to
11 replace the disbonded pipe at this time appears to be a
12 reasonable one.

13 Another major project raised in Staff's
14 memo concerns the section of pipe on the Little Bay
15 Bridge, which must be removed when the bridge is being
16 replaced. As you've heard, the Company plans to use
17 horizontal drilling to lay pipe under the river, although
18 the study found that abandoning that section of pipe and
19 building a new gate station could be a cheaper option.
20 That issue needs to be resolved. Though, the bulk of the
21 work and associated expense for this project is not
22 scheduled to occur until 2013, we heard today from the
23 Company, as presented on Slide 36, that the alternative
24 option of siting the Eliot Station in two years is

1 apparently almost impossible. Staff would like to work
2 with the Company to analyze the costs and benefits of the
3 Little Bay Bridge Project as thoroughly as we did the
4 Disbonded Pipe Project.

5 Also of concern to Staff is the
6 Company's conclusion in the study regarding the
7 jurisdiction issues raised in the merger proceeding and
8 addressed on Page 42 of that study.

9 The study states, and I quote:
10 "Unitil's decision to continue to operate Granite as an
11 integrated, uninterrupted pipeline would preclude Granite
12 from filing for abandonment of Granite's FERC certificate
13 based on a changing of its configuration to two intrastate
14 pipeline segments. Moreover, as the Granite Study has led
15 Unitil to a conclusion that de-rating the pipeline and
16 filing for an exemption from PHMSA regulation, or
17 separating the pipeline at the border and seeking
18 exemption from FERC regulation are not the most effective
19 long-term solutions for Northern and Granite or Northern
20 and Granite customers. Unitil has not identified any
21 other reasons which would justify a change in ratemaking
22 jurisdiction for Granite."

23 Staff's preliminary review of keeping
24 the pipeline a distribution pipeline, rather than a

1 transmission pipeline, was based on the following factors:

2 Northern Utilities recently expended
3 approximately 450,000 to reduce operating pressure on
4 intrastate pipelines from transmission level to
5 distribution level, so as to avoid Integrity Management
6 costs for a five mile segment between Dover and Rochester.

7 Second, a potential avoidance of an
8 estimated \$5 million of incremental capital expenditures
9 between 2011 and 2013 are considered possible by retiring
10 the disbonded pipeline and operating the pressures at
11 distribution pressures.

12 Third factor was a potential avoidance
13 of replacement of all mainline valves with remote operated
14 valves. This remote operation requirement would apply
15 only to transmission pipelines, not distribution lines.
16 And, the cost is conservatively estimated to be about
17 between 1.9 to 3.8 million in New Hampshire and Maine.

18 And, fourth, the potential avoidance of
19 hydrostatic testing of transmission pipelines where
20 records are untraceable, incomplete, or unverifiable.
21 This federal recommendation is estimated to possibly
22 result in a cost of \$3.5 to \$5 million to occur prior to
23 2014.

24 The legal analysis in the Granite study

1 does not consider the possibility that even -- excuse me
2 -- without changing Granite State's configuration or
3 operations, FERC could grant state jurisdiction if the
4 Company were to petition for it. Staff is not and has
5 never suggested that we would ask this Commission to
6 direct the Company to change jurisdiction. And, moreover,
7 the federal statutes indicate that FERC can hold a hearing
8 on the determination of service area under a Section 7(f)
9 that was referred to earlier upon its own motion.

10 The regulatory and legal analysis
11 contained in the Final Study does not consider the
12 additional regulatory costs of operating under two
13 regulatory regimes; that is Northern, under the state
14 regime, and Granite, under the FERC regime. Granite's
15 recent rate filing at the FERC reflected an annual
16 regulatory expense of \$83,000 and estimated rate case
17 expense of over half a million dollars. In response to
18 Staff Data Request 6-178 in this proceeding, Granite
19 expects to file a rate case at FERC in each of the next
20 three years, at a cost of 350,000 per filing. In addition
21 to Granite's rate case expenses, Northern customers bear
22 the cost of state intervention. There are no shippers to
23 represent the customer interests in Granite's rate
24 proceedings before FERC, because Granite's affiliated

1 customer, Northern, takes over 90 percent of Granite's
2 capacity and Northern itself does not intervene. Indeed,
3 to do so would not be in the best interest of its parent
4 company. Were it to do so, but not contest any of
5 Granite's proposed costs, Northern's intervention would be
6 essentially ineffective to protect the interests of its
7 ratepayers. As a result, New Hampshire ratepayers are
8 limited in representation to the New Hampshire and Maine
9 state commissions and consumer advocates, rather than
10 direct and unaffiliated customer stakeholders. Another
11 disadvantage to New Hampshire ratepayers in Granite
12 remaining under FERC jurisdiction is the lower level of
13 scrutiny involved in a FERC proceeding, a result of
14 resource scarcity, rather than FERC intention, but a
15 result that is more likely to lead to ever increasing
16 rates borne by New Hampshire ratepayers.

17 Not only are regulatory proceedings
18 before FERC expensive, the costs of which are passed
19 directly through to ratepayers, the continued operation of
20 the Granite pipeline at transmission pressure under FERC
21 jurisdiction raises additional issues, such as the costs
22 associated with meeting federal Integrity Management
23 requirements of transmission pressure pipelines, as
24 mentioned earlier, and what Staff believes is the lower

1 level of scrutiny over safety management, as well as rate
2 base and revenue requirements, than would occur under
3 state jurisdiction. Staff believes that the Granite State
4 pipeline more appropriately fits under state jurisdiction,
5 rather than FERC, with only 87 miles of pipe and only
6 three firm customers, one of which, Northern, holds 93
7 percent of the firm capacity as an affiliated customer.

8 Page 20 of the Commission's Order Number
9 24,906, dated October 10th, 2008, cites the following
10 language from the settlement in the underlying docket:

11 "The purpose of the study will be to assess whether
12 customers of Northern and Granite would be better served
13 by integrating Granite and Northern and/or otherwise
14 reorganizing them and their operations." Staff believes
15 that customers would certainly benefit from eliminating
16 half a million dollars a year of federal regulatory
17 expenses.

18 Overall, the study has been a valuable
19 exercise, and both the Company's and Staff's understanding
20 of the Granite system has been greatly enhanced, in
21 particular by our more recent collaborative efforts since
22 the filing of Staff's memo in November. That said, the
23 explicit goal of the Study was to determine what
24 operational scenario is in the best interest of Northern

1 and Granite's customers, and Staff believes the Report
2 falls short in that respect. We believe that the Little
3 Bay Bridge Project needs further analysis, as does the
4 issue of whether customers are better served if Granite
5 were under state jurisdiction. Unitil's conclusion that
6 there should be no change in regulatory jurisdiction is
7 not supported by the analysis provided thus far.

8 It is Staff's recommendation that
9 further inquiry into those issues is warranted. We
10 therefore recommend that the Commission open an
11 investigation into these matters, but allow the Staff and
12 the Company to work together on the issues raised here, as
13 we are doing with respect to the disbonded pipe project,
14 and report back to the Commission before the Company files
15 its anticipated rate case petition at FERC in the second
16 quarter of this year. We also recommend that, to the
17 extent the jurisdiction and related affiliate issues
18 remain unresolved, they be included in the scope of the
19 rate case anticipated to be filed by Northern this spring.

20 And, Mr. Chairman, with your permission,
21 I would like to give the microphone to Randy Knepper, to
22 respond to some of the issues raised regarding reliability
23 and one-way flows earlier in the Company's presentation.

24 CHAIRMAN GETZ: Okay. Mr. Knepper.

1 MR. KNEPPER: Yes. You heard a lot
2 today about, I guess, reliability and safety. And, there
3 is a big difference of opinion between the Company and
4 Staff as to how one weights what the impact is for one-way
5 flows. Unfortunately, here in New Hampshire, we have a
6 history of having, given the geography of where our
7 communities are and where the pipelines are, we have a lot
8 of places where there's one-way flows. The majority of
9 the EnergyNorth system is, once you get off the Tennessee
10 Gas pipeline that comes into this state, they have one-way
11 flow from right here in Concord, up to seven communities
12 up north. There's one-way flows going into -- from
13 Windham to Nashua. There's one-way flows throughout the
14 system. And, that's not unusual. And, so, because of
15 that success, I mean, we look at that and we have not had
16 a tremendous amount of accidents or incidents in the past
17 or reliability issues. So, we take that into account and
18 factor that into when you look at the reliability of these
19 things.

20 If you look at the Seacoast area, where
21 Unitil serves or Northern serves, you know, the Salem
22 distribution system is a one-way flow. Even after the
23 study, it's going to continue to be a one-way flow. It's
24 fed from one pipeline. If you look at these green areas

1 on this, looking up at Rochester, there's one-way flows.
2 So, it is the nature of what we have here. And, so,
3 although we don't ignore it, we just may not emphasize it
4 to the same degree that the Company does, about having to
5 have redundant systems and totally reliable things.

6 As far as the safety impact, to me, the
7 safety impact is the same. You have to be -- you have to
8 operate a safe system, that's the ticket to get in the
9 door, no matter what the condition is or the geography of
10 the pipeline. So, you know, we are not requesting them to
11 do redundant pipelines and looping systems everywhere; we
12 don't do that. We make sure that what they have and what
13 they have and operate is done in a safe manner. So, I
14 don't find that the safety and the reliability, I do find
15 that they're distinct issues.

16 And, really, what it boils down for me
17 is, you know, we have two big buckets, either you're
18 classified as "transmission" or you're classified as
19 "distribution". And, as Lynn mentioned in her statement,
20 San Bruno, California and the four other transmission
21 pipeline incidents that have occurred since the study has
22 taken into effect are game-changers. I mean, it's
23 literally going to change the industry. And, it's going
24 to change it, and it's going to be very expensive.

1 There's going to be more and more onerous requirements
2 under Integrity Management for those in transportation,
3 and so -- I mean, transmission lines, than those in
4 distribution. So, that really was the onus, is to look at
5 it while this study was going on, and that's why we did
6 some requests later on to factor those things in. Because
7 when we -- they weren't really part of it when we
8 initially took it out, took the study upon itself. So, it
9 was a snapshot in time, but this -- the snapshot is
10 changing, the landscape around it is changing. And, so,
11 we felt -- I do feel that the study doesn't necessarily
12 reflect all those costs. They're very difficult to, you
13 know, put a precise number on, but it's definitely going
14 to be large.

15 Unfortunately, I'm not so sure that the
16 gas supply issues that they have and the supply costs,
17 that they're going to outweigh those things, because
18 they're very onerous to overcome as a -- in the review.
19 And, so, it wasn't until those, I don't know, I would say
20 those gas supply costs really came out to the forefront
21 within the last, I don't know, couple weeks, is that we
22 were really able to pin those down through the help of our
23 staff, and Unitil has been very forthcoming in that, that
24 it really was able to emphasize the degree of what those

1 existing contracts are and how much of an impact they
2 have. So, that's when things really came into being.

3 But the whole point was, is to try to
4 avoid costs for Northern Utility customers in the end by
5 looking at that distribution -- that distribution level
6 requirement. And, one of the things that I do think is,
7 from our take, it wasn't as far -- when we initially
8 looked at it, it was pretty far apart. But, when you
9 start throwing these other costs on there, it gets a lot
10 closer. What tips it back in favor, I think of Unitil and
11 keeping it as it is, those -- I call them "gas supply
12 contracts" that are in existence with PNGTS that are going
13 to be a problem, where you can't move the gas supply
14 around as easily as you could before.

15 So, I guess that's all I have to say.

16 CHAIRMAN GETZ: Thank you. Anything
17 else, Ms. Fabrizio?

18 MS. FABRIZIO: No thank you.

19 CHAIRMAN GETZ: Questions?

20 CMSR. IGNATIUS: I do. I have a couple
21 of questions. I'm not sure if they -- who they relate to,
22 so I'll leave you to divvy up who you think best. One is
23 on the disbonded pipe. And, is there any -- would you
24 agree with the Company's description that the location of

1 the disbanded pipe is this particular area that was coated
2 after it was in place? And, I guess that was leading to a
3 suggestion that you wouldn't have that situation in other
4 parts of the pipeline? Or, maybe put more directly to
5 you, are you aware of any other locations where there are
6 indications of the same problem or you think there may be
7 the same problem?

8 MR. KNEPPER: Well, I guess I kind of
9 heard for the first time today that NiSource had given
10 them, Unutil, knowing about that disbanded pipe section,
11 we looked at that initially in the study and kind of
12 focused around there, looked at some of these scenarios
13 earlier. It wasn't until late in the report that that was
14 actually, you know, in the last review that it was kind of
15 mentioned, it was kind of mentioned that it was there. It
16 does cause a question as to, that occurred in what you
17 call a "low consequence area", I guess, where there's not
18 a lot of population. But, if it's a characteristic of how
19 it was applied in the field, you know, it questions one --
20 whether those same application/construction techniques of
21 applying that coating were done elsewhere on that
22 pipeline. Because, if you look at the history of this
23 pipeline, and you look at the dates and the vintages, it
24 could be in other places, and it may not have just -- just

1 may not have shown up yet.

2 CMSR. IGNATIUS: All right.

3 MS. FABRIZIO: Commissioner Ignatius, if
4 I could just say, --

5 CMSR. IGNATIUS: Sure. Go ahead.

6 MS. FABRIZIO: -- the Staff has been
7 pretty much limited to the information provided to us by
8 the Company. So, perhaps the Company would prefer to
9 respond directly to that question.

10 CMSR. IGNATIUS: All right.

11 MR. MEISSNER: Tim.

12 MR. BICKFORD: That segment of pipeline
13 was -- actually was used pipe that was acquired, I
14 believe, back in the late '50s or maybe early '60s, and it
15 was acquired from the government. And, it was the -- the
16 coating was field-applied when it was installed. And,
17 that is the only segment that has field-applied coating.

18 CMSR. IGNATIUS: Thank you. On the
19 issue of the possibility of directional drilling at the
20 Little Bay Bridge, does Staff have any concern about the
21 high-velocity current that the Company referenced and what
22 that might mean for having an underground pipeline running
23 there?

24 MR. KNEPPER: Probably not in what

1 you're envisioning. The reference to the high current is
2 for them to do inspections if it was aboveground. And,
3 so, it would be, I don't know, not -- it would be
4 challenging, I guess, is probably -- Kevin, that's
5 probably how he would state it is, versus if it was still
6 water and they had easier access. But, going underneath
7 and doing the horizontal directional drill, I don't
8 believe the currents are going to have any effect on that.
9 What's going to affect that more is what kind of granite
10 you hit and the bedrock that's underneath there. Until
11 those test bores are done, until it's actually in the
12 middle of being able to do it, will you find out how
13 accurate all those assessments or estimates were.

14 They did say that, at the Piscataqua
15 River, when the -- I guess it's the joint facilities were
16 put in, that they had a pretty successful one. But, if
17 you just go down the street, looking at in Durham, when
18 UNH ran 30 percent of their horizontal drills, some of
19 them were very much more expensive than what they
20 anticipated because of the rock that they hit. So, New
21 Hampshire is quirky. You can have a problem of smooth
22 sailing on one side of the street, and go down 300 feet,
23 and it can be as difficult as possible. So, it's tough
24 for them to estimate, but the cost could be definitely

1 higher. It's all dependent upon what happens.

2 CMSR. IGNATIUS: One other question, and
3 it's one of timing. Ms. Fabrizio, you suggested that an
4 investigation would be appropriate, but you also know
5 there are deadlines coming forward for the Company, both
6 on the assessment and on the Little Bay Bridge
7 construction. How do you see those deadlines and a
8 Commission investigation working together in a way that's
9 ultimately successful?

10 MS. FABRIZIO: Well, we haven't quite
11 thought through the exact timing of possibilities. But,
12 because this is an open docket, and we have been working
13 closely with the Company on resolving some of the issues
14 that we've been discussing today, perhaps it would be most
15 practical to continue working with the Company and report
16 back to the Commission at some point before its
17 anticipated rate filings, either at the FERC or here at
18 the Commission. And, an investigation, I suppose, could
19 be in a new docket, after that point, if the Commission
20 agrees that the issues warrant further investigation.

21 CMSR. IGNATIUS: Well, I guess -- but I
22 still don't quite follow, if, let's say the investigation
23 were to take six months, maybe a little more, maybe less,
24 but how does the Company then -- does it still have enough

1 time to implement construction plans with Little Bay
2 Bridge, one way or another, if that were to happen, or to
3 get on with the assessments that need to be done for the
4 rest of the system to meet that deadline? Are they, by
5 having an investigation, do we put out for too long the
6 next steps that have to happen under -- it sounds like on
7 many of the scenarios some of those steps are going to
8 have to happen, and in some cases they wouldn't have to
9 happen. But how does the timing fit? Do we have the
10 luxury of another six plus months to study things? Or,
11 are there waivers to some of the deadlines that could be
12 requested? Is that another way to try and continue to
13 investigate and deal with the deadlines that are now
14 present?

15 MR. FRINK: I would like to say the
16 Little Bay Bridge Project I think could be addressed very
17 quickly. A major consideration is the gas costs. With
18 what we've done on the disbonded pipe piece, I think we're
19 well along the path to where we can do a fairly quick
20 turnaround on that issue, which weighs heavily in the
21 decision. So, I don't think that we're looking at
22 anything near a six-month investigation, I think something
23 that could be wrapped up fairly quickly, within a month or
24 two.

1 And, as far as the regulatory issues,
2 I'm not sure when the Granite filing is -- when the
3 Company intends to make that Granite filing. But that
4 doesn't have the same urgency. And, I don't think
5 there's, to be honest with you, I'm not too sure we could
6 come to an agreement on that one. And, I don't think
7 there's a lot of research to be done in that. But one
8 thing I would be interested on that piece, it's not the
9 same urgency in that, and also Maine's -- there's been a
10 request for Maine to open an investigation, their
11 Commission to open an investigation in a request by the
12 OPA there. So, I'm somewhat interested to see what
13 happens there.

14 So, I don't see us inhibiting their
15 ability to do what they need to do to meet their
16 construction projects and IMP requirements, especially
17 since we've put the disbonded pipe, resolved that pretty
18 much. And, as far as the regulatory piece, I just -- I
19 think we can take our time on that to some degree. And,
20 we do have a couple of dockets that we know are coming up,
21 and it may be that, if we can't resolve them, we can
22 address them there.

23 CMSR. IGNATIUS: Thank you.

24 CHAIRMAN GETZ: Okay. Then, Mr. Traum,

1 do you have a comment?

2 MR. TRAUM: No. The OCA does not have a
3 position.

4 CHAIRMAN GETZ: Okay. Thank you.
5 Gentlemen, anything, a public comment?

6 MR. EMERTON: No. Not at this time.

7 CHAIRMAN GETZ: Anything further then
8 today?

9 (No verbal response)

10 CHAIRMAN GETZ: All right. Hearing
11 nothing, then we'll close the status conference and take
12 the recommendations under consideration. Thank you,
13 everyone.

14 (Whereupon the status conferenced ended
15 at 1:46 p.m.)

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