

1 CHAIR: Please be seated.
2 Good morning. I'd like to call the meeting of the New
3 Hampshire Site Evaluation Committee to order. The first
4 item on our agenda is review of proposed correspondence
5 to Public Service Company of New Hampshire concerning
6 the rebuild of the R187 transmission line. Mike, do you
7 want to quickly summarize that?

8 ATTORNEY IACOPINO: For the record, my
9 name is Mike Iacopino, counsel for the Committee.
10 What's before the Committee is a correspondence from an
11 attorney for Public Service Company of New Hampshire,
12 Christopher Allwarden, dated August 29, 2000, as well as
13 a proposed response to Mr. Allwarden regarding the
14 intent of Public Service Company of New Hampshire to
15 upgrade the R187 line. They have taken the position
16 that that line, because it is a transmission line, is
17 exempt from, not is exempt but, is not within the
18 jurisdiction of the Site Evaluation Committee but still
19 subject to local governance through local authorities,
20 which would include the Department of Environmental
21 Services as well as the various towns through which the
22 transmission line runs. I have provided a memo,
23 confidential memo, to the Committee laying out our
24 review of the legal issues which are involved in there.

1 And to summarize that, we believe that the company
2 is correct with their interpretation that any absence of
3 the petition process, which is laid out in RSA 162-H,
4 this proposed upgrade is not subject to the jurisdiction
5 of the Committee to issue a Certificate of Site and
6 Facility.

7 CHAIR: And Mike Walls from
8 the Attorney General's Office, who also was involved in
9 this review and drafting of the letter, any comments?

10 ATTORNEY WALLS: No, I have no
11 additional comments.

12 CHAIR: Thanks Mike. Do we
13 have a motion to approve the letter?

14 MS. BROCKWAY: So moved.

15 CHAIR: Second?

16 MR. CANNATA: Second.

17 CHAIR: Any further comments
18 or questions? All those in favor say "Aye."

19 GROUP: Aye.

20 CHAIR: Item number two is
21 review of correspondence dated September 15, 2000 from
22 Committee member Mike Cannata, chief engineer PUC,
23 concerning the progress report of compliance with
24 conditions under Certificate of Site and Facility for

1 AES Londonderry, Docket No. 99-02. Michael?

2 MR. CANNATA: Yes. I sent you this
3 letter, Mr. Chairman, because when the Applicant sent in
4 some compliance documents that they were required to
5 send to the PUC, I went to Attachment B on the
6 Certificate and it appeared to be mis-worded and it
7 appears that it was the same as the Newington Project,
8 which we sited and approved, I think, within a couple of
9 weeks of that time. And I've made a couple of small,
10 suggested changes to Attachment B which would take out
11 the reference to 345 KV, and that's what drew my
12 attention to it because this project does not have 345
13 KV. It was clear it was going to be a combination of
14 230 and 115 KV interconnections. And another item was
15 that it referred to a single line which, again, we knew
16 right out front that there was going to be at least two
17 lines that were going to emanate from the project out to
18 the transmission system. So that's what I called
19 Condition 1 and Condition 2, to make appropriate changes
20 there. And I also stated that the condition in the
21 permit was satisfied as far as we could do at this time
22 because the other conditions were ongoing, such as
23 operation and maintenance requirements which you can't
24 do until the project is actually in service.

1 And I wanted to reaffirm that the system impact
2 studies, which we required, are not yet complete through
3 the appeal process at NEPOOL. And I wanted to affirm in
4 writing that the Applicant could not connect to the
5 system until those studies were, in fact, completed and
6 approved by NEPOOL, and that's all outlined in my
7 letter. And that would be the proposed response that I
8 would like to give it.

9 CHAIR: Thank you. The form
10 of response, should it be in the form of a letter or an
11 order or, any thoughts? Mike?

12 ATTORNEY IACOPINO: Yes. Obviously the
13 reference to 345 KV instead of 115 is a typographical
14 error, and I think that can be remedied by the issuance
15 of an order of errata, or an errata sheet, just
16 indicating that, in fact, there's a typographical error.
17 There's really little, if any, ramifications of that as
18 a result of Condition 2 and Attachment B to that
19 particular order, and that is because the Applicant is
20 still subjected to the approvals of NEPOOL/ISO. And if
21 the ISO said, "It's 115," it's 115. So there is no real
22 ramification and that's clearly just a typographical
23 error. And they are subject to the set Condition 2
24 which requires the ISO approvals. So I would suggest

1 that we simply issue an errata sheet to that particular
2 order indicating that Condition 1 of Attachment B should
3 have referenced a 115 KV transmission line. And, Mr.
4 Cannata, it slipped my mind as to what the other --

5 MR. CANNATA: Alright --

6 ATTORNEY IACOPINO: You mention a single
7 --

8 MR. CANNATA: Condition 1, I think
9 it has to mention both 115 and 230 because it was going
10 to be a combination. And I have suggested words there
11 which would replace "345 KV transmission line
12 connecting" with "ISO approved 115 and/or 230 KV
13 interconnections which connect," just to substitute
14 that. Then in Condition 2 there was a singular word
15 "line" which should be "lines," plural.

16 ATTORNEY IACOPINO: So we could just make
17 that the errata sheet, that portion of his letter, if
18 the Committee believes that's appropriate?

19 CHAIR: Does that sound
20 reasonable?

21 COMMITTEE MEMBER: I'd so move.

22 CHAIR: So moved. Second?

23 MS. GEIGER: Second.

24 CHAIR: Seconded. Any further

1 comments or discussion? All those in favor of the
2 motion say "Aye."

3 GROUP: Aye.

4 CHAIR: Motion's approved. We
5 now have some time before the start of the hearing, and
6 I think probably need some time to meet with counsel.

7 MR. PATCH: I would move that we
8 recess the hearing so that we can meet in private with
9 legal counsel.

10 MS. GEIGER: I second.

11 CHAIR: Any discussion,
12 comments? All those in favor of the motion say "Aye."

13 GROUP: Aye.

14 CHAIR: Okay. Thank you. We
15 will now meet alone as a committee and ask that our
16 visitors return at 10 a.m. sharp. Thank you.

17 (Off the record)

18 CHAIR: I'd like to call this
19 hearing to order. This is the adjudicatory hearing on
20 the application of Tennessee Gas Pipeline Company,
21 Docket No. 00-01, Application of Tennessee Gas Pipeline
22 Company Londonderry 20-inch replacement project.
23 Application of Tennessee Gas Pipeline Company
24 ("Tennessee",) for a Certificate of Site and Facility to

1 construct, install and operate 19.3 miles of 20 inch
2 replacement pipe commencing in Dracut, Massachusetts,
3 terminating in Londonderry, New Hampshire, and to
4 construct, install and operate delivery point
5 facilities, including a meter station, to allow
6 Tennessee to provide firm transportation service of
7 natural gas to a new industrial end-use customer, AES
8 Londonderry, LLC or AES. Tennessee Gas Pipeline Company
9 will abandon the existing 19.3 miles of eight inch
10 pipeline segment that comprises part of Tennessee's
11 Concord Lateral.

12 Good morning. My name is Bob Varney. I'm
13 Commissioner of the New Hampshire Department of
14 Environmental Services and serve as chairperson of the
15 Site Evaluation Committee for the State of New
16 Hampshire. This hearing is held pursuant to RSA 162-H.
17 The Site Evaluation Committee has been requested to
18 grant a Certificate of Site and Facility to the
19 Tennessee Gas Pipeline Company. As I just indicated,
20 the application of Tennessee Gas Pipeline Company, or
21 "Tennessee," is for a Certificate of Site and Facility
22 to construct, install and operate 19.3 miles of 20 inch
23 replacement pipe commencing in Dracut, Massachusetts and
24 terminating in Londonderry, New Hampshire; and (2) to

1 construct, install and operate delivery point
2 facilities, including a meter station, to allow
3 Tennessee to provide firm gas transportation service of
4 up to 130,000 dekatherms per day of natural gas to a new
5 industrial end-user, AES Londonderry, LLC or AES.
6 Tennessee Gas Pipeline Company will abandon the existing
7 19.3 miles of eight inch pipeline segment that comprises
8 part of Tennessee's Concord Lateral. Tennessee
9 estimates the total cost for the project at 32.4 million
10 dollars and proposes to place the project in service by
11 October 1, 2001.

12 The Applicant, Tennessee Gas Pipeline Company, is
13 represented today by Attorney Greg Smith in the law firm
14 of McLane, Graf, Raulerson & Middleton. The public is
15 represented by Public Counsel from the Department of
16 Justice by Attorney Marguerite Wageling. And,
17 Marguerite, you are -- There you are. Welcome. The
18 following parties have formally intervened in this
19 docket and have been granted general appearances: the
20 Town of Londonderry, represented by Bernstein, Cushner
21 & Kimmell, the Londonderry School District also
22 represented by Bernstein, Cushner & Kimmell, and the
23 Londonderry Neighborhood Coalition represented by Gadsby
24 Hannah, LLP.

1 On February 14, 2000, pursuant to RSA Chapter 162-
2 H, Tennessee Gas Pipeline Company filed an application
3 with the State of New Hampshire Site Evaluation
4 Committee for a Certificate of Site and Facility. On
5 March 23, 2000 the Committee found the application
6 complete and notified the Applicant the application was
7 accepted for consideration by the Committee.
8 Informational hearings were held at the Pelham High
9 School, Pelham, New Hampshire, on April 18, 2000 and at
10 the Londonderry High School, Londonderry, New Hampshire,
11 on April 26, 2000. During said hearings the Applicant
12 presented information pertaining to the requested energy
13 facility. At the informational hearings the public was
14 permitted to address questions to the Applicant's
15 representatives, the Committee and the Public Counsel.
16 The Committee issued a notice of public hearing,
17 pursuant to RSA Chapter 162-H:10(II) and RSA 541-
18 A:31(III), of this adjudicatory hearing which is being
19 held at the offices of the Department of Environmental
20 Services, 6 Hazen Drive, Concord, New Hampshire. The
21 notice scheduled the hearing for 10 a.m. on October 23,
22 2000, and thereafter as necessary. The Applicant has
23 filed affidavits demonstrating that the notice was
24 published in *The Union Leader* on September 20, 2000 and

1 in the *Derry News* on September 22, 2000. These
2 newspapers have a general circulation in Rockingham and
3 Hillsborough Counties in which the energy facility is
4 proposed to exist. The Applicant and the parties have
5 been conducting discovery and developing the issues in
6 this matter. In addition, the various state agencies
7 have been reviewing the application and the
8 environmental and other impacts associated with the
9 application. The application is now ready to be
10 presented to the Committee.

11 The hearing will commence with the Applicant making
12 their presentation to the Committee. This will include
13 the testimony of witnesses and the introduction of
14 exhibits into the record. After the presentation of the
15 witnesses' testimony the other parties to the proceeding
16 will have the opportunity to cross-examine the
17 witnesses. Upon conclusion of the Applicant's
18 presentation the other parties will present their
19 witnesses and such witnesses will be subject to cross-
20 examination. Additionally, certain state agencies have
21 submitted reports or draft conditions for a certificate.
22 The Committee may request the testimony of
23 representatives from those state agencies. The
24 representatives from the state agencies will be

1 permitted to summarize their report or draft conditions.
2 Thereafter, they'll be subjected to questioning by all
3 parties and the Committee. Members of the public will
4 be given an opportunity at the beginning and at the end
5 of the adversarial hearing to make comments. Members of
6 the public who have a comment or point of interest they
7 would like addressed may notify the Committee
8 Administrator, Cedric Dustin, who will inform the
9 Chairman. Please note that if there appears to be
10 insufficient time for public comment we may permit the
11 public to submit written comments after adjournment of
12 these hearings. The entire proceeding will be
13 transcribed and published. Copies of all transcripts
14 will be filed with the town clerks of the municipalities
15 affected and made available to the public.

16 Next, I would like to introduce members of the
17 Committee. Leon, could we start with you?

18 MR. KENISON: Sure. Leon Kenison,
19 Commissioner of Department of Transportation.

20 MS. SCHACHTER: Deborah Schachter,
21 Director of the Governor's Office of Energy & Community
22 Services.

23 MR. DUPEE: Brook Dupee, Assistant
24 Director, Office of Community & Public Health.

1 MR. CANNATA: Mike Cannata, Chief
2 Engineer, Public Utilities Commission.

3 MR. TAYLOR: Jeff Taylor, the
4 Director of the Office of State Planning.

5 MS. GEIGER: Susan Geiger, Public
6 Utilities Commission.

7 MR. PATCH: Doug Patch, Chairman,
8 Public Utilities Commission.

9 MR. VARNEY: Bob Varney,
10 Commissioner, Department of Environmental Services.

11 MR. WRIGHT: Craig Wright,
12 Department of Environmental Services, Air Resources
13 Division, sitting in for Director Ken Colburn.

14 MR. NYLANDER: Russell Nylander,
15 Chief Engineer, Water Division of DES, sitting in for
16 Harry Stewart.

17 MR. MCLEOD: Rich McLeod, Director
18 of Parks and Recreation.

19 MR. BALD: George Bald,
20 Commissioner, Department of Resources and Economic
21 Development.

22 ATTORNEY WALLS: Mike Walls from the
23 Attorney General's Office.

24 ATTORNEY IACOPINO: Mike Iacopino and to

1 my left is Vincent Iacopino, counsel to the Committee.

2 MR. DUSTIN: I'm Cedric Dustin,
3 Administrator for the Site Evaluation Committee.

4 CHAIR: As a point of
5 information, Russ and Craig are not voting members of
6 the Committee but are here for informational purposes
7 only. Committee, staff have been presented.
8 Applicant's attorneys?

9 ATTORNEY SMITH: Yes, Mr. Chairman. My
10 name, for the record, is Gregory Smith and I am counsel
11 for the Tennessee Gas Pipeline Company appearing from
12 the McLane Law Firm here in Concord. With me is Ellen
13 Arnold, who's also with the McLane Law Firm, Stuart
14 Richmond, to her left, and I have one other associate,
15 Meredith Hatfield, who is here to assist, as well as
16 Shannon Bolduc who is a paralegal and will try to help
17 us manage the exhibits and the information in this case.
18 To my right is Robert Haas, who is the project developer
19 for Tennessee Gas Pipeline Company, and will be our
20 first witness. We have with us also here today several
21 other witnesses that we will put forward when we get to
22 that point in the testimony, as we understand has been
23 the practice in the past. As the Applicant we have
24 spent a good deal of time trying to organize the formal

1 record into a list of exhibits, and those would appear
2 in the box here on the corner of the table. We have a
3 revised exhibit list. We sent out a draft as we were
4 working on that last week. And has that been handed out
5 or -- Mr. Dustin has copies of that for you. We assume
6 that other parties may want to use that. They're
7 welcome to use that box if they wish. People should
8 have copies of all of those documents already. Any
9 exhibits that we were proposing to introduce at this
10 hearing, of course, would be different, but we have
11 tried to include all the ones we expected to introduce
12 in this box for administrative ease. And we will expect
13 to leave that here and to try to conform it at the end
14 of the hearing to what happened. Other counsel may have
15 their own exhibits or exhibit lists. I have not
16 represented that this is complete. While it might
17 include some things that other parties wish to have in
18 here, we did not make an effort to include all the
19 things they might want to have in here and I have put
20 them on notice that they should make their own judgments
21 about whether there's something else they'd like to have
22 there.

23 CHAIR: T h a n k y o u .

24 Marguerite, do you have any comments?

1 ATTORNEY WAGELING: I do not. I have had
2 a chance to look through the exhibit box and I was
3 intending, with the permission of Mr. Smith, to be able
4 to utilize that box and I will reference his exhibit
5 list in my examination of not only their witnesses but
6 my witnesses as well.

7 CHAIR: Thank you. And could
8 we have an introduction of the Intervener's attorneys?
9 Elizabeth?

10 ATTORNEY GOODMAN: My name's Elizabeth
11 Goodman. I'm from the law firm of Bernstein, Cushner &
12 Kimmell and we represent the Town of Londonderry and the
13 School District of Londonderry. We have a motion
14 pending which I assume we'll be discussing shortly?

15 CHAIR: Yes. Thank you.

16 ATTORNEY ROCHWARG: Good morning Chairman
17 Varney. My name is Leah Rochwarg. I'm with the law
18 firm or Gadsby Hannah and I represent the Londonderry
19 Neighborhood Coalition, and with me this morning is my
20 colleague.

21 ATTORNEY EDWARDS: Good morning Chairman.
22 My name is Bill Edwards with Gadsby Hannah for the
23 Londonderry Neighborhood Coalition.

24 ATTORNEY ROCHWARG: And I also have an

1 oral motion and I would request that it be heard this
2 morning. I discussed it with Attorney Iacopino outside
3 and I haven't had an opportunity to address the
4 Committee with it and would appreciate the opportunity
5 now.

6 CHAIR: Okay. We will have a
7 few motions to discuss in a few minutes. Thank you.
8 Welcome. The motions that we have to discuss,
9 apparently there are four or five of them total. First
10 is a motion from Gadsby Hannah on behalf of the
11 Londonderry Neighborhood Coalition, and it's a motion of
12 the Londonderry Neighborhood Coalition to supplement its
13 witness list and pre-file direct testimony. Leah, do
14 you want to speak to that briefly?

15 MS. BROCKWAY: Mr. Chairman?

16 CHAIR: Yes.

17 MS. BROCKWAY: Can you find a mic for
18 the attorneys who will be speaking so that this reporter
19 can have it on tape?

20 CHAIR: Yes. We should try to
21 make one of those seats available. Thank you.

22 ATTORNEY ROCHWARG: Yes. Good morning
23 again. With regard to the Motion to Supplement, I
24 believe that I would rely upon the basis which I set

1 forth in the written motion itself. I believe that it
2 was filed within the time periods provided for in Model
3 Rules. And, like I said before, the basis upon which I
4 would ask the Committee to consider allowance of that
5 motion are set forth in the motion itself. Essentially,
6 the witnesses that I have identified, many of whom are
7 present today, their testimony would fall within the
8 general scope of pre-filed testimony which was
9 previously filed in a timely fashion and according to
10 the rules.

11 CHAIR: Okay. Thank you. And
12 this was circulated to the service list. Any comments
13 from the Applicant?

14 ATTORNEY SMITH: This is the motion
15 that was filed last week, is that correct?

16 ATTORNEY ROCHWARG: That is correct. The
17 written motion, I believe, that is with Chairman Varney.

18 CHAIR: Yes, the written
19 motion that was dated October 16, 2000.

20 ATTORNEY SMITH: The Applicant does not
21 object, Mr. Chairman.

22 CHAIR: Any comments from the
23 Town's attorneys?

24 ATTORNEY GOODMAN: No objection.

1 CHAIR: Any questions,
2 comments, from Public Counsel?

3 ATTORNEY WAGELING: No objection.

4 CHAIR: Any -- I'll move we
5 grant the motion. It's been moved. Is there a second?
6 Second. Any discussion or questions? All those in
7 favor of the motion say "Aye."

8 GROUP: Aye.

9 CHAIR: The motion's approved.
10 Thank you. You also indicated that you have a verbal
11 motion this morning?

12 ATTORNEY ROCHWARG: Yes, I do, Chairman.
13 Just this past Friday, October the 20th, I received two
14 volumes of materials from the Tennessee Gas Pipeline and
15 I'd like to address that, if I may, at this point in
16 time. In accordance with the Model Rules of Practice
17 and Procedure, Section 81103, there's a mandatory pre-
18 hearing disclosure of witnesses and exhibits which must
19 be provided within five days prior to the hearing dates,
20 and the position of the Londonderry Neighborhood
21 Coalition is that was not timely filed. I have an
22 overnight package evidencing that it was not forwarded
23 to me until the 19th of October. I received it on the
24 20th of October which as the Committee, and Chairman, you

1 are well aware does not comply with the procedural
2 requirements either of the draft EFSEC rules or the
3 procedural order issued on the 18th of April this year,
4 nor does it comply with the Model Rules. It is the
5 position of the Londonderry Neighborhood Coalition that
6 in receiving this material at such a late date that we
7 were severely prejudiced in our opportunity to prepare
8 and, at this point in time, there were four witnesses
9 who were involved. There were two supplemental filings
10 made for direct pre-file testimony of which I have less
11 of an issue over, albeit it was not timely filed. There
12 were two additional witnesses, who I understand from
13 speaking with counsel from the Attorney General's
14 Office, in fact, they were roughly discussed at the pre-
15 hearing conference, however, they were never identified
16 to myself by name. These witnesses offer a substantive
17 testimony on blasting issues and on endangered species
18 issues. I feel as though the Committee should consider
19 either striking their testimony or, in fact, leaving the
20 hearings open, as the rules provide that once these
21 hearings are completed on Wednesday they are closed to
22 further evidence. Specifically, one of the witnesses
23 identified as Roger Tredell in his direct pre-file
24 testimony that, in fact, NEA, which is the Northern

1 Ecological Associates for whom he works, anticipates
2 completing surveys of the project areas within Beaver
3 Brook for the end of October and will provide a full
4 report as soon as it is available. I can't possibly be
5 expected to cross-examine this witness on a report that
6 I haven't even seen. So, therefore, I would ask,
7 respectfully, that the Committee either suspend the
8 hearing to allow the Coalition and other interveners and
9 parties sufficient opportunity to cross-examine these
10 witnesses or consider the Londonderry Neighborhood's
11 motion to strike their testimony in its entirety as I do
12 believe that we are severely prejudiced in our inability
13 to properly cross-examine these witnesses on a report
14 that, as I said, does not even exist.

15 With respect to some additional related issues, on
16 the blasting issue, let me just go back to the witness
17 for that, Paul Kretschmer, excuse me, I'll get his name
18 properly, listed by the Tennessee Gas Pipeline, Paul
19 Kretschmer, he goes into several issues that were raised
20 by the Haley & Aldridge report. And the expert witness
21 hired by the Office of the Attorney General and counsel
22 for the public obviously had concerns about sufficient
23 opportunity and ability to cross-examine that witness as
24 I have had insufficient opportunity, as of this point in

1 time, to adequately review and consult with an expert of
2 my choice, or even just to review the reports
3 themselves, to be prepared to cross-examine that
4 witness. As I stated previously, as to that witness, as
5 well, I would request sufficient opportunity as leave of
6 the Committee not to close the hearings but rather
7 consider perhaps a half day of hearings or even just a
8 few hours of hearings to give us sufficient opportunity
9 to cross-examine at least those two witnesses.

10 In addition, I would point out to the Committee
11 that Tennessee Gas Pipeline hasn't even asked this
12 Committee for permission to file that supplemental
13 testimony in the form of a motion. Perhaps one exists,
14 but I haven't seen it. In addition, I would point out
15 that counsel for the Town of Londonderry has filed a
16 motion which is pending before this Committee. And I
17 understand that it hasn't been addressed as of this
18 point in time but it is my understanding, after having
19 spoken with counsel this morning, that, in fact,
20 Attorney Smith would like a sufficient opportunity to
21 respond to whatever filings counsel for the Town of
22 Londonderry makes and, obviously, I would request a
23 sufficient opportunity to respond to that as well. And
24 I would just respectfully request that the Committee,

1 and also you Commissioner Varney, consider these
2 requests as I do believe that the Londonderry
3 Neighborhood Coalition and the interests of the citizens
4 of the Town of Londonderry have been adversely affected
5 and we are severely prejudiced by the late filing.

6 CHAIR: Thank you. A response
7 from the Applicant?

8 ATTORNEY SMITH: Yes, Mr. Chairman. I
9 don't think there's any prejudice at all by this filing.
10 The documents that were included in this filing all fall
11 within the scope of the issues which were raised by
12 other parties during the discovery process by either
13 data requests or communications with us. Now, under the
14 process in this hearing, we could come back and present
15 all of that testimony at the time of rebuttal, and we'd
16 have every right to do that. What we said at the
17 meeting of counsel, some time ago, was that if anyone
18 identified additional witnesses they would try to make
19 that known to others as soon as they had that
20 information and let them know what the testimony would
21 be about, and that's what we did. We mentioned at that
22 meeting that because issues have been raised about
23 blasting or about safety issues or about the water
24 issues, we would try to address those as early as we

1 could develop that information and get it to others.
2 There's no surprise about these issues. They're the
3 very same issues. What they now have in front of them
4 is the testimony that might come tomorrow or the next
5 day as to what our witnesses think about those issues
6 that have been raised, so it actually allows them to
7 preview what we could have presented at this hearing.

8 With respect to the kind of overlegalistic argument
9 that the standard rules at the AG's Office present that,
10 I think that's simply a mistaken view of the law. Those
11 rules do not prevent that. Those rules can be applied
12 when there is specific notice to the parties that they
13 apply in this proceeding. All parties have been
14 notified that your procedural order which follows the
15 draft guidelines of this Committee, are mindful that
16 they're not adopted guidelines but they became an order
17 of this Committee. Those are the rules that apply to
18 this proceeding. And even if these Model Rules adopted
19 by the Attorney General's Office applied here, that
20 statute and those rules provide that they will be waived
21 in all cases where strict application would somehow
22 frustrate the purposes of the proceeding.

23 Finally I would say, having had the privilege of
24 being at these proceedings before, I think what we

1 should all keep in mind is that this is a process of
2 trying to build a project in which the proponent has to
3 put forward all of the conceptual plans and then refine
4 those to the level of detail they're able to do that.
5 But the proponent always has the burden of proof. The
6 proponent always has to show what it is they're going to
7 do. We put forward a project we felt was approvable at
8 every step of the proceedings but, as this inclusive
9 process unfolds, people represented by counsel may
10 continue to serve data requests or raise questions about
11 how we're proposing to do things. And what we do is try
12 to understand what those concerns are and then, as
13 promptly as possible, file additional information about
14 those so everyone can have that and then they can be
15 properly addressed. There are a couple of permits in
16 this submittal. The request for variance -- I should
17 say there's one, I think, the request for variance.
18 That's actually already in the application. We filed it
19 again because, arguably, a different form might be used
20 by this department. But substantively, it's exactly the
21 same thing that's already there. The Condition No. 6,
22 the turbidity standard has been present in this case all
23 the way along. We simply filed our proposal for that
24 condition, I suppose we could have filed that after the

1 hearing, so everyone could see what our testimony will
2 be about the turbidity standard and how that condition,
3 that has been circulated among counsel, might be
4 modified. We have added witnesses, as we said we would
5 at the meeting of counsel, such as Mr. Kretschmer
6 because he is providing additional depth within the
7 scope of the same issues that were already joined in our
8 original pre-file testimony. We have not gone outside
9 the envelope of that. What we've done is put in the
10 pre-file testimony before you and bring here behind me
11 people who, as we like to say these days, "you can drill
12 down with." If you want to ask more questions about the
13 science of blast measurements, or more questions about
14 any of these technical issues, we're trying to bring the
15 people either to this table, into these filings, or make
16 sure that they're in this room behind us so that the
17 Committee can ask questions of them and get to the
18 bottom of those issues.

19 Finally, I would say that all those people will be
20 here and be questioned about these issues. This is not
21 a broadening of the scope of the issues. And if there's
22 anything more that counsel would like to comment on with
23 respect to those issues we are all mindful there's
24 already requests to keep the record open for two more

1 weeks for additional filings. We do not intend to
2 object to that. We intend to ask that we have two weeks
3 after that to file any additional comments that we have
4 so that you end up with a most complete record to make
5 the best decision possible.

6 CHAIR: Thank you. Do we have
7 any comments from counsel for the Town of Londonderry
8 and the Londonderry School Board? If so, feel free to
9 step up to the microphone.

10 ATTORNEY GOODMAN: Thank you, Mr.
11 Chairman. First of all, I'm wondering if there could be
12 two seats at this table for the interveners during the
13 proceeding of the hearing? I think that would be
14 helpful to us.

15 CHAIR: Yes, we'll take care
16 of that.

17 ATTORNEY GOODMAN: And also, a seat
18 available for my engineering consult behind me, if
19 that's possible, so I can confer with my consultant.
20 Thank you. We have filed a motion to extend the
21 record for two weeks to file additional comments. But
22 since I came here I was handed -- In addition to the
23 supplemental filing which I personally received on
24 Friday, which, by the way, includes 21 applications for

1 trench cut permits before the Town of Londonderry, I
2 have not had the opportunity to review that permit
3 request or the permit request filed today which is a
4 building permit and Site Plan Review. I don't see how
5 I can review those with my clients and get responses to
6 the Committee.

7 I think the issue before the Committee is one of
8 due process and really not a legalistic determination of
9 which set of rules you're going to apply. I would like
10 now to orally amend my motion and ask that after the
11 hearing we reserve the right to request additional
12 hearing time. We don't have the report, for example,
13 from Tennessee Gas. In the Beaver Brook there's a
14 report coming on the Brook Floater Mussel, which isn't
15 done, and in order to ask questions about that we need
16 to look at the methodology, we need to look at the
17 analysis and we need to look at the results. And so,
18 I'm afraid that given the extent of local permits that
19 are pending, and now these additional witnesses that are
20 testifying or are available at this hearing for which
21 cross might be appropriate, I'd like to reserve, also,
22 the right certainly to file written material for up to
23 two weeks. And we did try to limit that so that there
24 would be adequate time for the Committee to receive our

1 comments. And then I'd like to, with that written
2 material, make a determination as to whether the Town
3 would like to request additional time for a hearing.
4 I'd like to review that with my client. And then maybe
5 your Committee can rule at that time whether a further
6 hearing date would be necessary. I'm just posing that
7 as another alternative. But certainly, at a minimum,
8 we've got to have two weeks to file some additional
9 material.

10 CHAIR: Thank you.

11 MS. BROCKWAY: Mr. Chairman?

12 CHAIR: Yes Nancy.

13 MS. BROCKWAY: May I ask a question?

14 Have you been responding directly to the motion, the
15 oral motion, that was just made by the Londonderry
16 Neighborhood Coalition? If not, could you also do that?

17 ATTORNEY GOODMAN: Sure. I think I was,
18 in part, responding to it but, yes, I would support it
19 if the Committee wants to set it down for two weeks to
20 file additional written materials, two weeks for the
21 Applicant to respond and then a subsequent hearing date.
22 We would support that.

23 CHAIR: Excuse me. Do we have
24 questions from the Committee, additional questions?

1 ATTORNEY IACOPINO: How about Public
2 Counsel?

3 CHAIR: Public Counsel?

4 ATTORNEY IACOPINO: I don't know if Public
5 Counsel has a position.

6 CHAIR: I'm sorry. I'm sorry,
7 Marguerite.

8 ATTORNEY WAGELING: Thank you. Briefly,
9 I think the position of counsel for the public revolves
10 around some assumptions and understanding from the pre-
11 hearing conference that took place. As I explained to
12 counsel for the Town of Londonderry and the Londonderry
13 Neighborhood Coalition, it was my understanding and
14 assumption from that meeting that the panel of experts
15 from the Tennessee Gas Pipeline would be here at this
16 hearing to present not only testimony but answer
17 specific questions relative to their expertise. And so,
18 I came, hopefully, prepared to adequately cross-examine
19 them and raise issues of concern that have been
20 developed by counsel for the public. So I, with all due
21 respect, I don't feel that there is any prejudice, at
22 least there wasn't any on the part of counsel for the
23 public because I was anticipating their presence and the
24 testimony. I'm appreciative of the fact that it was

1 filed prior to the hearing so that I was able to review
2 it with my experts, but I understand the time
3 constraints that have been placed on everybody and I'm
4 sympathetic to them.

5 It, additionally, was my understanding from
6 speaking to different personnel that I would be allowed
7 through the testimony of my expert, Haley & Aldridge,
8 who are present for the hearing today, to flesh out some
9 of the subjects that are unresolved. Not only have I
10 provided the pre-filed testimony but it was my
11 understanding that based upon that pre-hearing
12 discussion that we would be able to flesh out some of
13 those issues through their testimony as specifics. And
14 so, that was my intent at this hearing also. I did not
15 file any supplemental pre-filed testimony to accomplish
16 that task because it was my belief that I was going to
17 be allowed to do so. So with that in mind, I guess I
18 certainly don't have any objections, understanding the
19 time guidelines and constraints of this Committee to
20 make a decision on the Certificate, to allow for the
21 motion by the Town of Londonderry to supplement. And
22 also, if the Committee chooses to have a further hearing
23 I certainly would defer to your position on that and be
24 present if one is requested and allowed. Thank you.

1 ATTORNEY IACOPINO: I just want to make
2 sure the Committee understands your objection. You're
3 objecting not to the supplemental direct pre-filed
4 testimony which was contained in the packet from Friday
5 of Mr. Auriemma and Mark Hamarich, is that correct? You
6 don't object to that?

7 ATTORNEY WAGELING: That's right.

8 ATTORNEY IACOPINO: You object to the pre-
9 filed direct testimony of Roger Tredell?

10 ATTORNEY WAGELING: Correct.

11 ATTORNEY IACOPINO: With respect to Mr.
12 Tredell, what specifically are you asking from the
13 Committee?

14 ATTORNEY WAGELING: Specifically what I
15 would ask is the opportunity to actually see the report.
16 As I stated earlier, the NEA anticipates completing
17 surveys of the project areas within the Beaver Brook
18 before the end of October and will provide a full report
19 as soon as possible.

20 ATTORNEY IACOPINO: That's the second
21 report regarding Brook Floater Mussel?

22 ATTORNEY WAGELING: That is correct. And
23 essentially what I would ask the Committee is the
24 opportunity to sufficiently respond either in writing

1 and/or the opportunity to properly cross-examine that
2 witness once I've had an opportunity to see that report.

3 ATTORNEY IACOPINO: And with respect to
4 the pre-filed direct testimony of Paul Kretschmer, you
5 object to that as well?

6 ATTORNEY WAGELING: That is correct.

7 ATTORNEY IACOPINO: And what's the
8 specific relief you're requesting with his testimony?

9 ATTORNEY WAGELING: The relief requested
10 would be the same, the opportunity to sufficiently
11 cross-examine that witness, have an adequate opportunity
12 to hear his direct testimony on this date, and I would
13 request either the opportunity to present the
14 Londonderry Neighborhood Coalition's responses in
15 writing but I would prefer to do so at a subsequent
16 hearing date if the Committee would consider that, and
17 I think it could be accomplished rather quickly.

18 ATTORNEY IACOPINO: And did you have
19 specific objections to any other portion of the October
20 18th supplemental filing?

21 ATTORNEY WAGELING: Well, as counsel for
22 the Town of Londonderry pointed out as well, there are
23 applications for 21 additional permits as well. I'd
24 like the opportunity to sufficiently respond to and

1 address the issues raised in the entire filing,
2 including the permits and additional witnesses and their
3 testimony.

4 MR. PATCH: Mr. Smith, did you
5 wish to respond to some of --

6 ATTORNEY SMITH: Just to try to clarify
7 this a little bit further, if I take some of them one at
8 a time, the request for PUC approval, the request for
9 the local road cuts, for example, the waiver of
10 Shoreline Protection Act, are all already covered in the
11 application. It's only a formal difference. For
12 example, all the route is laid out. The crossings of
13 the roads are all laid out. None of those things are
14 new. All these are are the technical documents that
15 would go for review at the local level and review here
16 for each of those road cuts, for example, or the review
17 of the water crossings. As you may know, there's some
18 question about jurisdiction there but to be safe we
19 filed the document so there wouldn't be a question about
20 that.

21 With respect to the endangered species surveys, the
22 reason that is not complete is because it hasn't been
23 possible to do it because of weather conditions. We
24 have been sending people all this season into the field

1 to try to do that. I'm told that it is complete as we
2 sit here this morning and that testimony will be offered
3 live at this proceeding about concluding that and that
4 the Brook Floater Mussel was not found in this right-of-
5 way. But we were trying to get that done and filed
6 sooner, and it wasn't possible. The visits had to be
7 canceled because of schedules or weather conditions and
8 it wasn't suitable to do the work. If we could have
9 filed any of these things sooner we would have. I don't
10 think there's any prejudice or denial of due process.

11 Finally, I would say that I think that we're not
12 objecting to these parties asking to be supplied further
13 information after this hearing if we have an opportunity
14 to respond to that and provided it does not delay this
15 proceeding, which is on a statutory clock, because it's
16 important to the project proponents to stay on a
17 schedule or the project could be severely hampered.
18 That really would be prejudice.

19 MR. PATCH: Unless the Committee
20 feels otherwise, I think it would be best if we heard
21 arguments with regard to the motion by the Town of
22 Londonderry and Londonderry School District to allow the
23 record to remain open for two weeks before we make a
24 decision on this other oral motion since the two, I

1 think, are tied in together. So, any objection from the
2 Committee? If not than I'd say we receive further
3 arguments on that motion. So the proponent of the
4 motion can go ahead. Is there anything I should ask so
5 that you don't repeat everything, arguments you've
6 already made? Is there anything you want to say to
7 supplement what you put in writing?

8 ATTORNEY GOODMAN: Just to clarify, we
9 are asking for two weeks to file written comment. We're
10 not saying that Tennessee Gas is dragging its feet.
11 What we're saying is that we do need time to review
12 those technical details which are in the application for
13 the trench cut permits, the site plan review. We do
14 need time to review those and to comment. And there
15 are, in the supplemental filing which was recently done,
16 there are route alternatives that go around the schools
17 of the Town of Londonderry. And that's a very important
18 point to my client, in fact, one of the most important,
19 and we need adequate time to comment on that. And I
20 would, again, urge that you allow us, after we prepare
21 those comments, to reserve the right to ask for
22 additional hearing time if my client feels that there is
23 some other issues that arise as a result of that review
24 for which we need to allow this Committee to hear

1 testimony.

2 MR. PATCH: And when you say
3 "comments," I want to make sure I understand, are you
4 talking about testimony by an expert witness or are you
5 talking about just sort of general comments? Now the
6 statute that you've cited, 162-H:10(III), suggests that
7 sort of after the hearings we can allow in informational
8 reports submitted to it by members of the public. But
9 to me, it doesn't say that an expert witness could
10 submit something after the hearings are closed.

11 ATTORNEY GOODMAN: Right, which is why
12 the Town's motion -- When I came today I was prepared to
13 only file written material, then I was handed a site
14 plan and a building permit application as well. And
15 then counsel for the Londonderry Neighborhood Coalition,
16 who are residents of the Town of Londonderry, has
17 requested that the hearing be extended. So, since that
18 motion is pending before you I'm saying I support that
19 motion as well. I definitely want the two weeks for
20 written material and I want to reserve the right to
21 discuss that with my client and ask for additional
22 hearing time if necessary.

23 MR. PATCH: So the written
24 material you're talking about is just comments or is it

1 experts to review what has been submitted? Now I
2 understand that you may be asking for further hearings,
3 which I assume would be testimony from an expert
4 witness.

5 ATTORNEY GOODMAN: Okay. Okay. It would
6 be a report of our engineering consultant or a summary
7 of that report, yes. It would have some -- That might
8 be one of the problems but that's what we would submit.
9 And if the Committee decides they don't need to have a
10 hearing on that then fine, we'll submit our report.

11 MS. BROCKWAY: Question. I thought
12 I understood the status of things and now I'm not so
13 sure. My question is going to be, when did you find out
14 that you would need more time? When I read the motions
15 this morning the only thing that appeared to me as far
16 as a reason for needing more time was that the Town had
17 recently changed counsel, not having to do with trying
18 to respond to recently provided information from the
19 Applicant. The oral discussion this morning has
20 revolved almost entirely around a desire to have time to
21 respond to information that just recently came into your
22 possession, so I'm a little bit confused. Are you
23 looking -- Let's say nothing had been filed on Friday
24 and you hadn't received anything this morning, would you

1 still be looking for two more weeks and, if so, why did
2 you wait until recently to file a motion for that?

3 ATTORNEY GOODMAN: Yes, the Town of
4 Londonderry would be seeking the two more weeks
5 regardless of the material filed by Tennessee Gas,
6 that's correct. And I'm not attempting to hide that
7 fact. That's why we filed a written motion. We were
8 only retained in a very short time period, and there's
9 nothing I can do to cover for that fact. We were
10 retained, essentially, by the School District on Friday.
11 So, we've done our best to be prepared for this hearing
12 and we've hired an engineering consult and we've been up
13 and seen the site. And you can talk to Tennessee Gas
14 people. We asked them to meet us. We've got the
15 documents as best we can. I don't have the exhibit
16 list. I did make, and Mr. Iacopino can verify, a number
17 of phone calls trying to get the docket, trying to get
18 a copy of what had been filed already in this case, and
19 trying to get all materials from Attorney Radigan's
20 office. And we're certainly prepared to represent our
21 client here today. But in the best interest of our
22 client, yes, we're asking for two additional weeks.

23 MS. BROCKWAY: Can you share with us
24 any information about why your client came forward so

1 recently to hire counsel, and I gather that the Town
2 also just changed counsel so? Why this is happening at
3 this point in the proceeding rather than earlier?

4 ATTORNEY GOODMAN: I wish I could tell
5 you. I can't. I don't know what happened before we
6 were hired.

7 MR. PATCH: Okay. Responses to --

8 MR. CANNATA: May I ask a question,
9 Doug? As I read the motion, the motion incorporates the
10 type of information we're looking at into the statement
11 of position. And in reading it, very quickly, it talks
12 about new routes, safety review, construction
13 requirements, review of emergency plan, impact on the
14 community, and I could go on and pick out other few
15 words. That sounds like a complete redo of this
16 process. It was my understanding that's what we're
17 doing here today, and I wonder if you would just comment
18 on that for me please.

19 ATTORNEY GOODMAN: I think that today
20 Tennessee Gas is presenting all of its project. And I
21 think that the Town has certain specific concerns which
22 we intend to report back on and we're going to limit
23 those to the areas of direct concern to the Town. Local
24 permitting is one of them. The impact of the route

1 directly adjacent to three schools is a serious concern
2 of the Town, and we've recently hired an engineering
3 consultant. To my knowledge, before this the Town had
4 no engineering consultant. And I did attend the public
5 hearing with our engineer and we did speak with, I think
6 you're from the Public Utility Commission, Mr. Marini,
7 and we reviewed his report. We'd like to prepare a
8 report on that. So, yes, to the extent that there are
9 issues being dealt with today, yes, the Town would like
10 to also file written materials relating to that, things
11 that are going to be considered today, but not to the
12 full breadth of matters. For example, I don't think
13 we'll be submitting comments on the water process, which
14 I think is a big issue here.

15 MR. CANNATA: Thank you.

16 MS. SCHACHTER: Mr. Chairman, may I
17 ask a question? If I might direct a question to the
18 Applicant's counsel. If you could help clarify, in my
19 mind, your position relative to this request? I heard
20 you say that you have no objection to two weeks of
21 additional time provided the Applicant also has two
22 weeks thereafter to respond. I didn't hear you address
23 the potential to have another half day or some several
24 hours of hearings, and I wonder if you could address

1 that as well as whether there's any limit, in your mind,
2 on the scope of issues that might be addressed in
3 writing, issues or the type of material presented, to
4 the extent it's evidentiary, and if you have a position
5 on that?

6 ATTORNEY SMITH: Thank you. We don't
7 think that further hearings would be necessary and I am
8 not supporting, or not objecting to the motion intending
9 to convey to the Committee the idea that we think
10 further hearings are necessary. We see no reason for
11 that at this point. I guess I'd like to make, if I may,
12 two or three additional points. One was just raised by
13 Attorney Goodman, and I wasn't planning to address it
14 now but I will. First, a fairly simply straightforward
15 matter. There was an allusion to the Applicant filing
16 a recent alternative route analysis. What we have filed
17 is the information which was prepared several months ago
18 and filed with FERC. And, while I'm not counsel at the
19 FERC proceeding, I'm aware of the fact that this
20 Committee is on the service list and so are these other
21 parties participating at FERC, and this parallel
22 proceeding is addressing many of the same issues. So in
23 some cases we have filed FERC documents here so your
24 record would be more complete and you would have that

1 information in the legal record if it's going to be
2 subject to judicial review, and we may continue to do
3 that. All we have filed is the alternative's
4 information that's in the FERC proceeding that these
5 parties have already seen. Secondly, we are taking
6 the position we believe is the right position to take,
7 that the Applicant should be permitted to put its
8 project forward. And we will get all aspects of it to
9 you as promptly as we reasonably can do that in
10 conformity with the statute, and we appreciate the great
11 care and the knowledge and experience this Committee
12 brings to this process. But with all due respect to
13 counsel for the Town, the Town of Londonderry has
14 participated in these proceedings, as has the LNC for
15 months, and it is not the Applicant, in any true sense,
16 that's late. It's the Town of Londonderry. This is the
17 issue I was not going to raise but, while the Town of
18 Londonderry's recent counsel has told you they couldn't
19 get copies of orders and didn't know what was going on
20 in this case because they came in so late, I learned
21 yesterday morning, at 8 a.m., that on Friday of this
22 past week they did find their way to Londonderry, were
23 in contact with two of the people on my project team and
24 went out to the right-of-way and spent several hours

1 examining the right-of-way, questioning people on my
2 project team, taking digital photographs, I'm told,
3 complained that they didn't have more information
4 provided in response to their questions, and they have
5 never contacted me or any one of my staff in my law firm
6 to get any of this information. I don't think that's
7 the proper way to do it. It is not the Applicant who is
8 playing hard to get here. The information that we have
9 laid out in this most recent filing is all essentially
10 within the envelope, I'll describe it, of the issues
11 that we have all been joining for some time, and the
12 Town of Londonderry has had counsel. They chose to get
13 new counsel at the last minute but did not come forward
14 and deal with other counsel. That was how they chose to
15 prepare for this hearing. And now they want to come
16 here and say that they need more time to respond to what
17 happened here.

18 Let me add one other fact which has been alluded to
19 here and I think is relevant to your determination of
20 how to fairly proceed. The Town of Londonderry, with
21 their new counsel, apparently, in attendance, asked for
22 a meeting in the Town. I believe it was on September
23 27th. It was the 25 , September 25 Counsel that is
24 telling you they're late to this proceeding were at that

1 meeting. The Town counsel directed inquiries to my
2 client. Tennessee Gas Pipeline Company attended that
3 hearing, at the request of the Town, and answered all
4 the questions that they could at that hearing. I
5 believe it may have been recorded. And counsel was able
6 to sit there and steer, if they wished to, whatever
7 questions the Town was going to ask. So, we have gone
8 to public hearings. We've gone to informal meetings in
9 the town. We have been available and I'm in the
10 telephone book. If these people wanted to know what was
11 going on in preparation for this hearing they could have
12 called. They have been preparing. And so, to
13 address your point about what would really be the scope
14 then of what they should file, I believe it should stay
15 within the parameters of what's happened up to this
16 point, and I believe that Public Counsel and counsel for
17 the Applicant have done that. Where issues have been
18 joined, we have refined our analysis on those issues.
19 We have not raised brand new issues late. And if that's
20 what's coming in this package in the next two weeks is
21 a whole set of new issues, say alternative routes that
22 are very different from the ones that have been
23 discussed at FERC or have been discussed in this
24 proceeding, we may find ourselves objecting to that

1 saying that it is too late to bring those things up.
2 But I am trying to make sure, as I know you are, that
3 all parties get a fair hearing here. I do not think
4 anybody ought to surprise someone else, take advantage
5 of that, and I don't think it's the Applicant that's
6 doing that, with all due respect.

7 MR. PATCH: Mr. Smith, can I just
8 ask one question to clarify? I think you said before
9 that you didn't object to leaving the record open for
10 two weeks, but for what purpose? I just want to make
11 sure that I understand that the purpose that you are
12 taking the position it ought to stay open for.

13 ATTORNEY SMITH: I think if the Town
14 wishes to file an engineering report, and if it remains
15 in a way that we can all appreciate is essentially
16 consistent with the parameters of the issues that have
17 been joined through this orderly process to this point
18 in time and in this hearing, in a proper way, that we
19 don't object to their filing follow-up documentation on
20 those issues. If it injects completely different
21 issues, things that could have been raised at this
22 hearing and aren't, then we will object to that. And we
23 are not objecting provided it does not delay these
24 proceedings which, as you know, are very important to

1 the survival of this project, that they stay on time,
2 and that the Applicant have an opportunity to respond to
3 whatever it is they intend to file.

4 MR. PATCH: Questions? Public
5 Counsel?

6 ATTORNEY WAGELING: I only had one other
7 comment I'd like to make because I don't believe I made
8 comment. Insofar as the Applicant has requested an
9 additional two weeks to respond to any filings made on
10 the part of Londonderry, I too would ask for that. I
11 failed to mention that earlier on in my comments.

12 MR. PATCH: Could you expand on
13 that a bit?

14 ATTORNEY WAGELING: Surely. As I
15 understand it, Londonderry, through their written
16 motion, has asked for two weeks to file further comments
17 after today's hearing. And the Applicant has indicated
18 to you, as I have, that I have no objection, nor did the
19 Applicant. However, the Applicant went further and
20 asked for two weeks past that two week deadline to file
21 any response to the Londonderry filing. And I failed to
22 ask for that additional two weeks also, and I would just
23 like to ask for that same consideration.

24 ATTORNEY ROCHWARG: If I may, Chairman

1 Varney? On behalf of the Londonderry Neighborhood
2 Coalition I would request the same opportunity in the
3 event that this Committee allows the motion.

4 ATTORNEY SMITH: I'd object to that,
5 Mr. Chairman, if that's a request that the LNC can
6 respond in the second two week period.

7 ATTORNEY ROCHWARG: I simply want
8 permission, like my sister counsel, my brother counsel,
9 to have an adequate opportunity to respond, and it's
10 obviously up to the Committee as to what the time frame
11 would be. And certainly as to the Town's motion, I
12 would just request an opportunity to respond like
13 counsel for the public and counsel for Tennessee Gas.

14 ATTORNEY GOODMAN: If I may comment, Mr.
15 Chairman? I think the issue here, or one of the
16 questions I've been hearing, is scope of the Town's
17 additional filings, what the Town is allowed to file.
18 And I think we're pretty clear on the engineering
19 issues. We have an engineering consultant. I think
20 everyone's in what the Town thinks as to the safety of
21 the pipe to be proposed to be installed. I think Mr.
22 Smith is trying to limit the Town in commenting on
23 alternative routes, and I would strongly request that
24 that be part of this scope. There's not a big

1 difference in the routing. If you look at the Town of
2 Londonderry on the map and the current easements and the
3 housing developments, it's not like we're going to
4 suggest that you put it through a lot of houses. I
5 don't think there's a large area of alternative routes
6 but I do see, initially, an area where route
7 alternatives around the schools might be possible. And
8 I apologize for not being prepared to present that today
9 but for my client I have to ask for the right to present
10 that to this Committee. And I add that there is no
11 prejudice to the Applicant. We're not asking for a
12 delay of the decision date. We're asking for the right
13 to make an informed request. I don't want to wing it.
14 I don't want to suggest something that isn't useful to
15 my client, the School District or the Town. But I want
16 to reserve the right, if possible, to comment on an
17 alternative route. And if you want to say "alternative
18 routes in location to schools," "around the school
19 area," that would be fine with us. I would like to
20 comment on the safety aspects of the pipeline and
21 construction and monitoring, and on the emergency plan.
22 That would be the scope of the written comments we'd
23 like to reserve the right to file on.

24 CHAIR: Could you tell me when

1 this application was filed with this Committee?

2 ATTORNEY GOODMAN: When the application
3 by Tennessee Gas was filed? It was before March. I
4 think it was February.

5 CHAIR: And so, that's how
6 many, several months?

7 ATTORNEY GOODMAN: That's correct.

8 CHAIR: Quite a few months.
9 And the hearings that were held at Londonderry High
10 School and Pelham High School were back in April?

11 ATTORNEY GOODMAN: There were some
12 initial hearings in April. I believe that there were
13 changes --

14 CHAIR: Informational hearings
15 in April?

16 ATTORNEY GOODMAN: That's correct.

17 CHAIR: And were issues of the
18 route of concern back then?

19 ATTORNEY GOODMAN: I assume they were.
20 I assume that issues of route have been a concern
21 throughout the process, that's correct.

22 CHAIR: And why is it that you
23 need additional time to evaluate alternative routes if
24 this proceeding has been, a filing was back in February

1 and in March was found to be complete and accepted for
2 consideration by the Committee? Why are we, in October,
3 now having to deal with this issue?

4 ATTORNEY GOODMAN: I think one of the
5 genesis for the concern here is the tragic accident in
6 Carlsbad in August. I think that that is an issue and
7 a lot of public response has turned around the position
8 of the Town. And I think when faced with concerns about
9 their schools there's been an impetus that has been
10 generating over the course of this process. And as
11 Tennessee has gone into the Town and made its
12 presentations, people and the School District ward have
13 become increasingly informed and they have, only
14 recently, carried out that concern. And we're just
15 asking for two weeks. We're not asking for a delay in
16 the hearing time. He's accepted the two week period,
17 and it's a question of scope. And I think that that's
18 the best I can answer for my client. I don't think
19 we'll be prejudicial. And certainly, today I was handed
20 additional permits, which I understand are to be
21 included in the scope of this, and I'm asking for the
22 right to comment on all of those local permits as well.

23 MS. SCHACHTER: May I ask a question
24 to clarify further? Is it the intention of the Town and

1 your intention to cross-examine witnesses on those same
2 issues in this proceeding? As a member of the Committee
3 I'll share that however the Committee comes out in terms
4 of post-hearing procedure, I'm certainly invested in
5 having this proceeding be developed as fully and
6 thoroughly as possible on these issues that are of
7 concern to the Town.

8 ATTORNEY GOODMAN: Yes. We were speaking
9 with Public Counsel about whether Mr. Marini would be
10 present, and I'm still trying to ascertain whether his
11 -- So it depends, in part, I think, on the other
12 witnesses. But yes, I have Mr. Hamarich's pre-filed
13 testimony. He's the one most focused, I believe, on the
14 safety issues and I would like to cross.

15 MS. SCHACHTER: I just was responding
16 to your comment that you're not prepared on some aspect
17 of this and I wanted to understand more fully whether
18 you're prepared to conduct as full cross-examination as
19 possible in the context of this proceeding so that the
20 Committee can have the benefit of those questions and
21 answers?

22 ATTORNEY GOODMAN: Yes, I'm doing the
23 best I can to do so. Yes.

24 ATTORNEY VINCENT IACOPINO: I guess --

1 The question that disturbs me, a little bit, is whether
2 or not we're going to conclude the evidentiary part of
3 the hearing when these adversarial hearings are over?
4 And that's an important question. And I take it that
5 you'll hedge on me if I ask you that question. Will
6 you?

7 ATTORNEY GOODMAN: Well, I think what I
8 would propose for the Committee is two alternatives.
9 One is to just allow the Town two weeks, at a minimum,
10 allow the Town two weeks to file any comment that you
11 file.

12 ATTORNEY VINCENT IACOPINO: And that
13 would be it?

14 ATTORNEY GOODMAN: That's one
15 alternative. Another alternative would be to allow the
16 Town to request, at the time they file in two weeks, the
17 opportunity for additional hearing if my client thinks
18 it's worthwhile. I haven't even consulted with my
19 client about whether there should be an additional
20 hearing, so I'm at a loss. I'm not sure that an
21 additional hearing is warranted but I think it might be
22 given the review. I don't know how the safety aspects
23 will be, what the report of our consultant will be on
24 the safety issue, how concerned he'll be about the

1 project as proposed.

2 MS. SCHACHTER: May I ask a follow-up
3 question? Given that at this time, before those issues
4 have developed in the course of these hearings, you're
5 not, perhaps, in a position yet to make a recommendation
6 to your client about the need for a request for an
7 additional half day hearing. Would you consider
8 withdrawing that portion of the request and framing it
9 again to the Committee at the conclusion of these
10 hearings if you deem that you still need to leave that
11 option open, with the hearings, perhaps, further
12 informing your decision and your advice to your client
13 in that regard?

14 ATTORNEY GOODMAN: Right, and maybe if
15 the Committee can tell me whether we actually do have
16 two weeks to file additional documentation. That would
17 assist me in advising my client.

18 ATTORNEY M. IACOPINO: I have just a couple
19 of questions for right now. When you say "the
20 possibility of an additional hearing," are you talking
21 about where you would present your engineer or are you
22 talking about calling the witnesses back that the
23 Applicant or other parties have already put on for
24 further cross-examination?

1 ATTORNEY GOODMAN: It would be either
2 one, obviously. I think if you're requesting additional
3 hearing time you'd want to do either one.

4 ATTORNEY M. IACOPINO: And you're aware that,
5 at least initially, that the procedural schedule in this
6 case required parties who are not the Applicant file
7 pre-filed testimony by August 18th?

8 ATTORNEY GOODMAN: I am aware of that.
9 And that's why, originally, we didn't ask for any
10 additional hearing time. We just asked for the written
11 material.

12 ATTORNEY M. IACOPINO: And that was -- To
13 this point the Town has not presented any pre-filed
14 testimony of any witnesses which -- It hasn't filed any
15 pre-filed testimony, period.

16 ATTORNEY GOODMAN: That's correct.

17 ATTORNEY M. IACOPINO: So as an attorney, are
18 you really asking to change the procedural schedule?

19 ATTORNEY GOODMAN: Well, yes, I am asking
20 for an amendment of your procedure. And I think it's
21 warranted in the circumstances that the Town has
22 recently gotten some additional material, right here,
23 plus the interest in informing the Committee, as much as
24 possible, about the Town's concerns. We only want to

1 try and give the Committee as much information as we can
2 about the Town's issues. And if the Committee wants
3 that to be in written format only, than that's what
4 we'll do.

5 MS. GEIGER: Mr. Chairman?

6 CHAIR: Yes Susan?

7 MS. GEIGER: Ms. Goodman, did you
8 intend to have any of your experts present with you to
9 assist you in developing questions for your cross-
10 examination during this hearing?

11 ATTORNEY GOODMAN: I have an engineering
12 consultant but he has only recently been retained and he
13 has not had the opportunity to review all the
14 documentation. Will he be present to hear whatever --

15 MS. GEIGER: Yes.

16 ATTORNEY GOODMAN: He's present now.

17 MS. GEIGER: Thank you.

18 ATTORNEY GOODMAN: And he will continue
19 to be present to hear the Applicant's witnesses and any
20 other testimony that's presented concerning issues which
21 he is concerned with.

22 CHAIR: Any other questions?
23 Would you like to take this under advisement, as well,
24 and discuss a little bit later?

1 MR. PATCH: I think it would be
2 wise for the Committee to consult with legal counsel
3 before arriving at a decision on these motions. I think
4 there is one other motion, as I understand it, that was
5 filed with the Committee that I think we need to hear
6 argument on.

7 CHAIR: That's the protective
8 order? Okay, why don't we take this item under
9 advisement and move onto the next which is a letter to
10 me dated October 20th and received this morning. And
11 it's a request by Tennessee Gas Pipeline Company, and
12 it's a Motion for a Protective Order for Tennessee's
13 Emergency Operating Procedures Manual. Would Tennessee
14 Gas like to present this order, which I do not believe
15 was shared with any of the parties? Is that correct?

16 ATTORNEY SMITH: I don't believe that
17 is correct. I believe that the second page of the
18 letter, at least my copy -- Do you have a second page to
19 the letter?

20 CHAIR: Yes, cc's?

21 ATTORNEY SMITH: Yes. This is a
22 special motion that was addressed to the Chairman of the
23 Committee with copies to all legal counsel in this
24 proceeding, and the copy of the document for which we

1 seek protection was only included with the copy that was
2 sent to the Chairman of the Committee. The document for
3 which we seek a special arrangement is an Emergency
4 Operating Procedures Manual. It's not an emergency plan
5 that we use during construction but instead it is a
6 document that governs emergency procedures after
7 operations begin. I am told that this document is
8 proprietary information. It is not available,
9 generally, otherwise. And we are concerned not only
10 that it is proprietary information but that the very
11 purpose of this kind of procedural manual could be
12 frustrated if it were generally available, if people
13 knew exactly what our emergency procedures would be in
14 the event of any kind of an incident. If an overflight
15 helicopter went down, or there was a slow leak or a
16 major problem, this plan, tailored to this project,
17 would specify who would be called and how those things
18 would be dealt with. So we believe that this should not
19 be generally available to the public. And what we
20 proposed is a kind of combination procedure, a ruling
21 from the Committee that it is not a public document in
22 the public record in this case. And we would ask that
23 if counsel for parties wish to see this document, and I
24 would think they would, that they would represent that

1 they will not copy this document and distribute it
2 further, that it will not be copied and delivered to
3 their clients or generally be distributed any further.
4 And they may review it, and they may comment on it for
5 purposes of participating in this proceeding, but it's
6 otherwise subject to this protective order. And the
7 reason, finally, is simply that we believe the purpose
8 of such a plan will become frustrated if this becomes
9 generally available.

10 CHAIR: Leo?

11 MR. KENISON: Counselor, could you
12 distinguish that from a normal or an emergency operating
13 procedure you might establish with the community and
14 other surrounding emergency responders?

15 ATTORNEY SMITH: There are procedures,
16 and I think as this project goes forward there will be
17 meetings between fire departments, police departments
18 and the people that work in the various contracting
19 teams. There are up to 400 people who will be involved
20 in this project. So there will be meetings, and
21 arrangements, and telephone numbers planned, exchanged
22 and so forth, so that if there's a need to address
23 emergency planning during the construction those people
24 will all become completely current in being familiar

1 with the project and each other. This plan is a
2 different one. This is the one which, when tailored
3 finally for operation of this facility, will identify
4 how a response will be undertaken across the board. In
5 other words, if you wanted to know what the plan would
6 be in Londonderry in calling the police department or
7 triggering an emergency mutual aid pact, you could
8 probably find the Londonderry part by going down to
9 Londonderry and asking the chief what he does. The
10 problem with this is the whole cookbook. It's how
11 you're going to deal with everything for 19 months. We
12 do not think that document ought to be public.

13 MR. CANNATA: In your FERC
14 application, is that material supplied to FERC --

15 ATTORNEY SMITH: I --

16 MR. CANNATA: And if so, is it
17 public?

18 ATTORNEY SMITH: It's my understanding
19 it is not and it is not public at the federal level.
20 They may look at such documents but they are not public
21 documents.

22 CHAIR: Yes. I thought you
23 had your hand up. Sorry. Start with Public Counsel.

24 ATTORNEY WAGELING: Thank you. I think

1 insofar as I would need to have that document available
2 for me to consult with not only other state agencies but
3 possibly other experts, I would think that it would have
4 to be available for that purpose. I understand their
5 concerns, but I am certainly not the person that can
6 review a document and determine whether or not it is as
7 complete and thorough and addressing all issues. I
8 don't have that expertise. So understanding their
9 constraints, or the constraints that they're asking to
10 be placed on the document, I would object. I would need
11 to consult with other people in reviewing the document.

12 ATTORNEY SMITH: Mr. Chairman, --

13 CHAIR: Yes.

14 ATTORNEY SMITH: Can I make clear what
15 I may not have made clear? We're not proposing that
16 counsel can't show it to their clients. We're asking
17 them not to let it leave their offices or be reproduced.
18 So their clients can come and review it with them and
19 they can look over the document and make a meaningful
20 review of the document. We're concerned about it being
21 reproduced and distributed from the offices of counsel.
22 They may show it to their clients but they shouldn't
23 reproduce it or release it, in our view.

24 ATTORNEY WAGELING: And I guess my

1 response or my comment is, what does "client" mean? And
2 I don't mean to be getting into a minutia legal
3 discussion here but. As counsel for the public, I do
4 not have a client that I would be showing it to. It
5 would be experts or other agencies. And so, with that
6 exception, I would have no objection as long as we're
7 all on the same page.

8 ATTORNEY SMITH: I agree with that.

9 CHAIR: Elizabeth?

10 ATTORNEY GOODMAN: Just questioning when
11 our comments on this emergency plan would be submitted
12 if the hearing is closed today or if the record is
13 closed at the end of this hearing? I would like to have
14 the opportunity to show this to my client. I think he
15 said the Londonderry portion would be public if it were
16 in the police, fire department. I'd like to be able to
17 show that to my town officials and experts and get
18 comments.

19 ATTORNEY SMITH: Just a point of
20 clarification. I don't believe that that part of this
21 document would be there. Some corresponding planning
22 documents would probably be available at Londonderry and
23 they would match, but parts of this document are not
24 broken and put in various public agencies' hands.

1 ATTORNEY GOODMAN: I guess it's hard to
2 comment because we haven't had the opportunity to review
3 the document.

4 ATTORNEY SMITH: May I say, Mr.
5 Chairman, that as we prepared for this hearing, and
6 being mindful of how this process has worked in other
7 cases, there are many planning documents. Some have
8 been exchanged among counsel, or during data request
9 exchanges, and they've become increasingly refined, just
10 as our experience has been in other projects. What
11 we've tried to do is to move those things up to this
12 point in time if we could. The standard procedure is
13 that we'd say, "We would accept conditions," which is,
14 "We will develop an emergency plan. It'll be available
15 60 days before we go in operation," for example. We're
16 raising this now because we're trying to get it to
17 people, making copies of it, let them look at it and ask
18 questions today, if they want to, about that. We could
19 have simply, I think, maintained that we would have this
20 available and file it in our, it would be in the
21 requisite places to make sure this operated. The PUC
22 could look it over under a condition in their
23 certificate, and it wouldn't be at this hearing at all.
24 We are trying to move these things back so people have

1 a meaningful opportunity to look at them now.

2 ATTORNEY GOODMAN: Could I just ask a
3 follow-up question to that? I guess I'm not
4 understanding the use of the documents being filed here
5 today. Are you saying that because they're here, at
6 this hearing, that we shouldn't subsequently be able to
7 comment or are you saying that you're giving it to us
8 now and you would also accept a condition that you would
9 develop a plan and that it would be subject to local
10 review and comment?

11 ATTORNEY SMITH: Any plan of this type
12 that we developed would not be any more public than what
13 we're proposing here today. It would be in the hands of
14 the company. It would not be filed with localities. If
15 FERC wanted to look at it I assume they might be able to
16 do that, and if the PUC wanted to look at it I believe
17 they could do that, but we would ask that it not be made
18 a part of the public record. That's how these are
19 handled, as I understand it. There are emergency plans,
20 local emergency plans, now for the existing pipeline,
21 and I believe those are referenced in our application.
22 This is a plan that would be developed after we
23 installed the new pipeline. And we wanted to make it
24 available to counsel so that they could ask questions

1 about this now if they want to, but it would be during
2 the course of these hearings. If they wanted to look at
3 it with their consultants, they already can look at
4 emergency plans that exist and have been in this case
5 for some time. And, as I said, we could have taken the
6 position that we would file this six or eight months
7 from now in compliance with a condition, the fact that
8 we have one, not the document itself. We didn't do
9 that.

10 ATTORNEY GOODMAN: I'm still unclear on
11 what this means to the Town. Does this mean that the
12 Town's comments are limited to this hearing or are you
13 saying that you would file this now and make it subject
14 to local review and comment?

15 ATTORNEY SMITH: What I've said before,
16 on the other motion upon which the Committee has not
17 ruled, is that we don't object to comments being filed.
18 It is our understanding that people can file comments in
19 this process for the benefit of the Committee after this
20 hearing is over. So, comments could be filed on this
21 document in that two week period. I'm told that the
22 plans we have at the Town are essentially the plans
23 we're going to have at the Town after the new facility
24 is up and operating. Those are not going to change.

1 What this does is it identifies telephone numbers of
2 people when it's finally in place. It would allow
3 someone who had a copy of this, if they got the final
4 document, to know exactly who's going to be called and
5 how the plan is implemented across the project. We are
6 not going to release that to any of the municipalities
7 now or later.

8 ATTORNEY ROCHWARG: Yes, if I may?
9 Obviously, I think, as that many of you are aware at
10 this point, that one of the, or several of the primary
11 concerns of the Coalition, and I think the Town has
12 previously stated, are for that of health and public
13 safety. And I would join Attorney Goodman in stating
14 that having not had an opportunity to see it it's
15 difficult to respond to it at this point in time. And,
16 based on my past experience, I'd be surprised if the
17 document contained all confidential and proprietary
18 information. Frequently what I've seen done is portions
19 that are confidential and proprietary in nature are
20 redacted. I don't know if that's a feasible option in
21 this particular instance because I haven't seen the
22 emergency procedure. But I know that I would like the
23 opportunity to at least have adequate time to review the
24 emergency plan with my client to see what concerns they

1 might have. And if the Committee, I think, and I don't
2 want to put words in Attorney Goodman's mouth but, if
3 the Committee is considering the introduction of the
4 plan as part of the hearing process that it just leave
5 open an opportunity for counsel to comment on that
6 particular proposed emergency plan rather than have the
7 automatic closure date at the end of the adversarial
8 hearings. That would be my comments.

9 ATTORNEY M. IACOPINO: I understand the
10 Applicant's got some concern with security regarding the
11 plan. Would any of the parties object to the condition
12 that, regardless of whether comments are permitted or
13 not, object to the condition that plan not be reproduced
14 and go out of, basically, counsels' office? That's one
15 portion, part of what I think they're asking for. Is
16 there really an objection to that if you can have your
17 experts look at it at your office, and whatnot, and not
18 reproduce it and disseminate it?

19 ATTORNEY GOODMAN: I guess, for the Town,
20 I don't know whether one copy in the Town
21 Administrator's office would be acceptable to Tennessee
22 or --

23 ATTORNEY SMITH: No. I'm proposing
24 that it remain in the hands of legal counsel who

1 represent that they will not release it from their
2 custody. And so, they can have people look at it. They
3 will take the responsibility for keeping control of
4 these documents. It will not be placed in the hands of
5 other people or left at the Town offices.

6 ATTORNEY GOODMAN: I'd have to look at
7 it, and I'd like the opportunity to call my client and
8 see whether there's an objection. I don't know.

9 CHAIR: Nancy?

10 MS. BROCKWAY: I will confess that I
11 can only speculate as to why there is the security
12 concern that the Applicant has raised. However, with
13 that speculation, I can see that there is going to be a
14 need for security and it strikes me that we've had an
15 offer from the counsel for the two interveners to review
16 the material and consult with their advisors and then,
17 perhaps, have all the three counsels sit down together.
18 There may be things that people would rather not
19 discuss, but once we're out of adversarial context
20 everyone can agree that it's just common sense and it's
21 not prejudicing anybody's position.

22 ATTORNEY SMITH: If I may? I think I
23 essentially agree with that but what I'm suggesting is
24 that the rules of handling this document are that they

1 will not release it further. So, that's really what I'm
2 suggesting is getting it into their hands so they can
3 decide how they'd like to comment on it but they agree
4 that when we turn it over to them they are not going to
5 release it further. And then we can decide what they
6 want to do in terms of this hearing or comments after.

7 CHAIR: Brook?

8 MR. DUPEE: Thank you, Mr.
9 Chairman. Attorney Smith, could you tell us a little
10 bit more about why you want to keep this document
11 confidential? Elaborate on that please.

12 ATTORNEY SMITH: Well, it's difficult,
13 I guess, to -- I think we all know that there's
14 information, parts of which may be public in various
15 places. For example, for 25 years we've dealt with
16 criminal history records. And because of important
17 public policy considerations, even though you could go
18 to various courts and try to find those records where
19 they're compiled in a computer database, where someone
20 can find them all in one document, they're not
21 available, and that's to protect people's privacy. Here
22 I'm concerned about the potential to frustrate these
23 emergency plans. You've asked me the question. I'll
24 tell you that it has been suggested to me by

1 representatives of some of the people who appear in
2 these proceedings that they will do whatever it takes to
3 stop the development of this project. And I know, from
4 work I've done on these issues over the years, that
5 these kinds of plans, if someone has them generally
6 available and the public at large, falling into the
7 wrong hands can be frustrated. It's always a concern of
8 people who have them that that might happen. I don't
9 know that someone's actually going to do that but I
10 think it's an unwarranted risk, really, to take a plan
11 which covers the entire, allow someone to see the entire
12 game plan, to know exactly who's going to be called and
13 how it's going to work, and then sit down and try to
14 figure out how they might frustrate that. We live in an
15 age in which, regrettably, that's become an increasing
16 concern. We're not trying to make this at all
17 difficult. We really brought it up in time now rather
18 than simply having it later. But the other approach
19 would have been to have it later in our hands and to say
20 if the PUC, like FERC, wishes to review it they may do
21 so on a condition in the certificate, but it won't be
22 filed at the PUC either. And they can determine and
23 comment on it and tell us what they'd like us to do, but
24 it will be retained by the company as the company's

1 operating game plan to deal with all of these. This
2 particular document is not refined for this project yet,
3 but it's the template for how that plan would work. I
4 hope that's sufficiently helpful.

5 MR. DUPEE: Thank you.

6 CHAIR: Deborah and then Doug.

7 MS. SCHACHTER: I was going to ask,
8 following up on Commissioner Brockway's question, if it
9 might be appropriate at a break to have counsel for the
10 Applicant share the document while retaining control of
11 the document, if you so wish, with counsel for the other
12 parties so that perhaps they can, with that additional
13 information, form their views and seek to reach
14 agreement on terms for sharing the document? And if all
15 the counsel think that might work if you could also
16 discuss, at that time, any restrictions on portions of
17 the hearing that might address the document, should
18 there be questions about it, or are we to grab a
19 protective order of any sort? How would that, if at
20 all, affect our handling of questions?

21 ATTORNEY SMITH: Thank you. We would
22 do that.

23 ATTORNEY V. IACOPINO: Can I ask a question
24 Mr. Smith? Is this document required by any agency or

1 government, federal or state?

2 ATTORNEY SMITH: The answer -- Would
3 you speak up louder?

4 UNKNOWN SPEAKER: 615, 192. 192.615.

5 ATTORNEY V. IACOPINO: And does the DOT regs
6 or statute give you any protection under that?

7 MR. RICHARDSON: No, it does not. It
8 says that we must have it. It does not say that it must
9 be publicly available or known. It does require that it
10 must be available to OPS inspectors to look at and
11 examine it to make sure it's adequate.

12 ATTORNEY M. IACOPINO: Is that a separate
13 regulation than 605 which requires a procedural manual
14 for operation, maintenance and emergencies? Are we
15 talking about the same manual?

16 MR. RICHARDSON: 605, let me tell you,
17 I may have misspoke. It may be 605 instead of 615.

18 ATTORNEY M. IACOPINO: Does it include all
19 three of those areas, operation, maintenance and
20 emergencies?

21 MR. RICHARDSON: Emergencies, yeah.
22 And the operations, in my view, of course, is the whole
23 --

24 ATTORNEY SMITH: For the record, that's

1 Mr. Alan Richardson who was speaking, if that was being
2 picked up, who will be available during these hearings
3 to assist in some of these issues.

4 CHAIR: Thank you. Doug?

5 MR. PATCH: Well, I just wanted to
6 make sure I understood whether counsel for the Town and
7 counsel for the Neighborhood Coalition, if they were to
8 meet as Ms. Schachter has suggested, would agree to keep
9 the information confidential pending the Committee's
10 review?

11 MR. KENISON: Public Counsel also.

12 MR. PATCH: Pardon?

13 MR. KENISON: Public counsel also.

14 MR. PATCH: Public Counsel also,
15 yeah. I just wanted to know if that was the case, if I
16 could get an answer on that?

17 ATTORNEY WAGELING: That's fine with
18 Public Counsel.

19 MR. PATCH: Okay.

20 ATTORNEY GOODMAN: Mr. Chairman?

21 CHAIR: Yes.

22 ATTORNEY GOODMAN: I think the
23 requirement we're talking about is 49 CFR 192.615. It's
24 the Federal Energy Regulatory Commission's regulation

1 requiring emergency plans. I believe that's what this
2 plan is filed --

3 UNKNOWN SPEAKER: That's FERC or DOT?

4 ATTORNEY GOODMAN: It's FERC. I'm sorry,
5 it's DOT. And again, I would have to look at the plan.
6 I would like the right to look at the plan, say during
7 the break here, contact my client and see. But I think
8 that the best way for the Town to provide comments on
9 this, at the appropriate time, would be to have one copy
10 available in the Town Administrator's office and that
11 could be subject to no duplication. I think the Town
12 Administrator could be charged with, because it requires
13 review by police and fire and other local officials.
14 And to come to counsel's office to do that may not be as
15 feasible as to have one copy in the Town. But I'll try
16 and reach agreement with Mr. Smith.

17 MR. PATCH: Mine's really a very
18 narrow question. During that break, are you willing to
19 keep that information confidential so that you can
20 review it during the break and come back and comment to
21 the Committee about whether it ought to grant the
22 motion?

23 ATTORNEY GOODMAN: Yes, absolutely.

24 MR. PATCH: Okay, that's all I'm

1 asking.

2 MR. KENISON: And just --

3 MR. PATCH: Well, wait a minute,
4 if I could just get an answer from counsel for the
5 Neighborhood Coalition?

6 ATTORNEY ROCHWARG: Yes, in response to
7 your question, Mr. Patch.

8 MR. PATCH: Thank you.

9 ATTORNEY ROCHWARG: Briefly, if I may, I
10 don't anticipate any problems whatsoever in keeping that
11 material confidential, and the information contained
12 therein confidential, at this point in time. What I
13 would like is for the Committee not to just give the
14 Coalition the opportunity to respond today, I'd like to
15 look at the regulation itself. I've seen it just now
16 and I've reviewed it very quickly. But I'd also like to
17 contact the Department of Transportation to find out
18 what the protocol is on other projects of this nature to
19 find out whether those documents are made public by
20 redaction or if, in fact, the entire document remains
21 confidential. And I'd just like the opportunity to find
22 out what the DOT's position is with respect to that,
23 whether it is generally made public in a redacted form.
24 Obviously, I don't think it would be necessary to

1 publish all of the telephone numbers and have them
2 disseminated for obvious safety concerns that someone
3 might impede an emergency response reaction by Tennessee
4 Gas or any other federal, local or state agency.
5 However, I do think that the public has a right and an
6 opportunity to at least know what is the emergency
7 procedure and what is the protocol that's required to be
8 followed. And I think that, perhaps, I haven't heard a
9 response from Attorney Smith with respect to, is it a
10 document that can be redacted? And again, that might be
11 cleared up, Mr. Patch, by having the opportunity to
12 look at it briefly outside.

13 MR. PATCH: If the Committee would
14 agree to take this issue up say like tomorrow morning or
15 something, would that give you enough time to do what
16 you asked to do?

17 ATTORNEY ROCHWARG: I can certainly make
18 efforts to make those calls and have someone in my
19 office makes those calls this afternoon. To the extent
20 that that's not feasible then I would bring it before
21 the Committee's attention tomorrow morning and seek
22 additional time, but I'll certainly try to have a
23 response by tomorrow morning.

24 MR. KENISON: Mr. Chairman, I think

1 this may fall, a little bit, in the area of
2 responsibility of administering transportation of
3 radioactive material, particularly high level, where the
4 public is not granted all the insight to plans for such
5 movement and so forth. But the second thing that I
6 would make is if this is placed in the Town
7 Administrator's hands, I guess I would be bewildered as
8 how the public could not have it under the right to know
9 law. So, I like the idea of postponing this, letting
10 them look at it and see what they can agree to. If not,
11 maybe the Applicant wishes to just withdraw it.

12 CHAIR: Public Counsel?

13 ATTORNEY WAGELING: The only other comment
14 I'd like to make is that, at least in my previous
15 experience, when there was concern about confidentiality
16 the court would often not grant the motion as proposed
17 by the applicant but granted in its first instance and
18 allow other counsel, if they choose to vary from it, to
19 file a motion before the committee for leave to
20 disseminate it to other individuals, and they'd have an
21 opportunity to file the motion and present their
22 position on that request and allow the applicant to
23 object and have a full and fair hearing on that issue.
24 And I don't see any reason why that couldn't take place

1 under this circumstance, that in the first instance it's
2 to be held confidential and if anybody, in the weeks
3 that follow, chooses to disseminate it for any reason
4 that they have to file a motion with this Committee
5 allowing the Applicant to object and present positions
6 and then the Committee can issue an order.

7 ATTORNEY SMITH: May I say something,
8 Mr. Chairman? We've kind of come full circle on this.
9 I want to be very clear about something that may not be
10 clear to everyone and that is that there are plans in
11 existence and they're on file, available to these towns,
12 so Londonderry is aware of the plans. When they say
13 they want to look at the rest of this plan they mean
14 they want to comment on what's going on in other towns
15 along the pipeline because they already are involved in
16 their own planning for an existing facility, and that
17 planning will be advanced as this facility is upgraded.
18 What we had in mind in filing this was that there have
19 been questions raised about the overall emergency
20 planning for this project. Like the other filings that
21 we've made, we are trying to respond to the issues that
22 people have raised and give them a full opportunity to
23 be heard at these hearings on those issues. When I
24 framed this request in the letter I said that we'd like

1 to know whether counsel would agree to these conditions,
2 that they will not reproduce it, photocopy it, hand it
3 out to anyone else. They will represent, as members of
4 the Bar, that they will keep a copy of this document in
5 their own custody. They may review it with people in
6 their office at their conference table to prepare, or
7 here in this Committee room, but they will not give it
8 to anyone else. I will take the word of members of the
9 Bar that they will keep custody of this document for
10 that purpose. But when I suggested that we would offer
11 it with that commitment they would make, what I had in
12 mind was if they won't make that commitment we'll
13 withdraw it. I don't think there's any obligation to
14 have this document at this time. We were trying to
15 facilitate a meaningful review by these counsel because
16 they raised questions about it. I'm happy to show it to
17 them and keep custody of it over a break, and they can
18 decide what position they want to take, but we'll simply
19 withdraw the document and ask that it be returned to us.
20 It's not a public document. It shouldn't be a public
21 document. And I'm afraid we may be going off on a
22 sidetrack here when there's more important things to
23 address.

24 CHAIR:

Thank you. Michael?

1 MR. CANNATA: One follow-up
2 question, Mr. Chairman. When I was asking earlier
3 whether this document was public at FERC and the answer
4 was that it was not, I take it Tennessee has more than
5 one pipeline that it operates so it has many emergency
6 plans. Are any of the emergency plans public on any
7 other pipelines that you operate throughout the United
8 States, to your knowledge?

9 ATTORNEY SMITH: It's our understanding
10 that what you would find is the same elsewhere as what
11 you would find here. You will find plans that if you
12 saw this document and you saw the plans, say, at the
13 Town of Londonderry, you would realize that they have a
14 common genesis. There's similar patterns. So emergency
15 response teams, and people who have to have these
16 things, are going to be aware of the plans that they
17 need to have. What they do not have is all the plans.
18 Now, I suppose they could go up and down a facility and
19 try to find them all and piece them altogether and
20 create a document that would allow them to see more
21 clearly what the entire operational emergency plan is.
22 It's our understanding, Mark Hamarich was consulting
23 with me, that an overall plan like this is not made
24 available. Federal authorities, for the reasons we've

1 articulated here today, do not require them to be filed
2 publicly. They look at them and they comment on them.
3 And you could go around and find pieces of these
4 documents in municipalities. You wouldn't find an
5 overall document like this, to the best of our
6 knowledge.

7 MR. CANNATA: Thank you.

8 CHAIR: Thank you. I think
9 it's the will of the Committee to have the lawyers meet
10 at some point today to discuss this issue. I think that
11 the meeting will bring clarity to the issue and
12 hopefully a consensus, and would urge the counsels to
13 reach a consensus at this meeting, if at all possible,
14 or subsequent to that meeting if additional calls are
15 necessary, but would expect that a consensus can be
16 reached on this issue once you have better knowledge of
17 the content of that material. I have the option of
18 having it so it's more obvious to me but it may become
19 more obvious as you review it. It's now five of 12. We
20 have been set back on our schedule a bit here. We're
21 hoping to have the opening presentation of the
22 Applicant. I'm told that lunch is across the way in the
23 anteroom, so we have our choice of either breaking now
24 for lunch, we need to decide how long a time period we

1 want for lunch, or we could have the opening
2 presentation and then break for lunch after that. What
3 makes the most sense to members of the Committee? How
4 long do you think the opening presentation will be?

5 ATTORNEY SMITH: I think it might be
6 ten or 15 minutes, but I'm not sure Mr. Chairman.

7 MR. PATCH: Mr. Chairman, I kind
8 of think it would be wise if the Committee met with
9 legal counsel over lunch to discuss some of the motions
10 this morning. So I almost think it would be a good idea
11 to wait until this afternoon and then do the opening.
12 I could go either way but that's --

13 CHAIR: Yes?

14 ATTORNEY ROCHWARG: Yes, Chairman, may I
15 just address one housekeeping matter? Counsel for the
16 Committee, Michael Iacopino, had asked me, prior to the
17 commencement of these hearings, whether the Coalition
18 would object to testifying as a panel. That may assist
19 the Committee in decision making and also move things
20 along. The Committee [sic] does not have an objection
21 to testifying as a panel or in two smaller panels.

22 CHAIR: Great. Thank you. I
23 heard some suggesting we break now. I've heard others
24 suggest we have the 15 minute presentation and then

1 break. Which would you --

2 ATTORNEY SMITH: Mr. Chairman?

3 CHAIR: Yes.

4 ATTORNEY SMITH: If it's pretty much
5 either way, in your view, I think we'd prefer to start
6 our case with the opening and move right into our first
7 overall witness. I think it fits together pretty well.

8 CHAIR: Okay. Does a one hour
9 break sound reasonable? Do we want to take a half hour
10 and then meet with our counsel for the second half hour,
11 make sense, have a working lunch, so to speak? Lunch is
12 across the hall and there's also, just so you know, a
13 cafeteria --

14 (Off the record for break)

15 CHAIR: Everyone? As you may
16 recall from my opening statements, we indicated that we
17 would have an opportunity for public comment and we
18 intend to provide that opportunity later today as well
19 as tomorrow. But there is a member of the public who
20 indicated, due to scheduling, that she would not be
21 available later this afternoon so I would like to
22 provide an opportunity for Valerie to address the
23 Committee.

24 MS. MAZZOLA: Good afternoon. My

1 name is Valerie Mazzola and I am a member of the
2 Londonderry Neighborhood Coalition and I'm also a
3 resident of the Town of Londonderry. And I have to tell
4 you that public speaking has never been something I have
5 enjoyed. In fact, in college and in graduate school it
6 was always something I dreaded. However, I felt
7 compelled to come here today to speak at these meetings.
8 I was not present at the last EFSEC hearings for the
9 siting of the AES Power Plant, but I am aware of the
10 important content of the testimony that was presented
11 during those hearings. I fear that nothing that is said
12 during these pipeline hearings will produce anything but
13 another unanimous decision by this Committee to give
14 Tennessee Gas permission to build their pipeline. It's
15 a shame that we all have to spend so much time and money
16 when I feel the ultimate outcome is inevitable.
17 However, I would still like to exercise my right to
18 speak.

19 When I began working with LNC I never knew how much
20 it would change my life. I have never considered myself
21 a naive person but I did believe that politicians were
22 elected by the people, for the people. I believed that
23 big business would follow the rules and regulations set
24 forth for them. I believed that regulatory agencies

1 would make sure those rules and regulations were
2 followed. I also believed that people who sit on
3 committees, like the people sitting in this room today,
4 were supposed to protect the health and well being of
5 their fellow citizens. I now feel, or I now believe,
6 none of this to be true. There's a story here that
7 should be told, and will be told, on a national level.
8 It is important that other people in our nation know
9 what has happened in the Town of Londonderry in the
10 State of New Hampshire. The story is about how two rich
11 and powerful companies descended upon a small town and
12 devastated a community. It's about how the residents of
13 Londonderry voted and how that vote was ignored by the
14 Londonderry Town Council, by the Committee sitting in
15 this room, by the New Hampshire Supreme Court and, most
16 of all, by the governor of this state. It's about how
17 a group of Londonderry residents formed a coalition to
18 fight for their rights and to fight for the health and
19 well being of their families. It's about the high price
20 they have paid for their efforts. On several occasions
21 members of the Londonderry Neighborhood Coalition have
22 been forced to file police reports because of threats of
23 violence, incidents of trespass on their private
24 property, and members being run off the road in their

1 cars. Sadly, we have always wondered whether one of us,
2 or one of our family members, would have a lethal
3 accident during this process.

4 We are here today to discuss building a large gas
5 pipeline that will feed gas to the AES Power Plant in
6 Londonderry. This power plant has not even been built
7 yet but we have already felt the negative impact on our
8 community. We have asked AES and Tennessee Gas for
9 peace, but it doesn't appear that will come anytime
10 soon. That gives us no choice but to carry on in our
11 pursuit of justice. I know and I feel this process is
12 about politics and money. I also understand this
13 project will produce much income for AES, Tennessee Gas,
14 and some select businesses in Londonderry and
15 surrounding communities. However, for the average
16 citizen in Londonderry the benefits are few. Tennessee
17 Gas says this pipeline replacement is a routine process,
18 but the safety and health concerns have to be addressed
19 by this Committee. I think the families of the people
20 who were killed in the New Mexico pipeline explosion
21 might agree that when a pipeline does explode the
22 results are catastrophic and irreversible. I'm sure
23 those people who lost loved ones in that explosion will
24 never be the same.

1 My children attend the Londonderry school system
2 and I'm sure this Committee is well aware of how close
3 its pipeline will be to our school buildings. If you're
4 going to put my children in danger in order for two
5 large companies to make a profit then I hope you will
6 require Tennessee Gas to take extra precautions. I know
7 that a pipeline explosion is unlikely, but all it takes
8 is one accident to devastate the lives of many.

9 I am a native of Massachusetts but during my
10 childhood I spent a lot of time in New Hampshire. Since
11 I was a kid I always wanted to live in the State of New
12 Hampshire. I always admired the "Live Free or Die"
13 state. After spending many years in the southwest, I
14 was finally able to move to New Hampshire. When I moved
15 to Londonderry five years ago, I couldn't have been
16 happier. When this whole process started with the power
17 plant, I had faith this state would back up the people
18 in Londonderry, that we would be free to vote and to be
19 heard. People in our country have fought and died for
20 our right to be free to vote and to be heard. This
21 country is based on a democracy. However, something has
22 gone terribly wrong with this process. To the governor
23 of our state, to the people on this Committee, to the
24 New Hampshire Supreme Court and, lastly, to the Town

1 Councilor of Londonderry, this is the United States of
2 America and shame on you for not listening to the vote
3 of the people. Thank you.

4 CHAIR: Thank you.

5 ATTORNEY SMITH: May I ask a question,
6 Mr. Chairman?

7 CHAIR: Yes.

8 ATTORNEY SMITH: You're Valerie --

9 MS. MAZZOLA: Mazzola, yes.

10 ATTORNEY SMITH: Mazzola? So you
11 delivered direct, pre-filed, testimony, did you, at this
12 proceeding?

13 MS. MAZZOLA: Yes.

14 ATTORNEY SMITH: On behalf of the
15 Londonderry Neighborhood Coalition?

16 MS. MAZZOLA: Yes.

17 CHAIR: Thank you. I wasn't
18 aware that she was on the list. Thanks. Okay. We have
19 some motions presented to us this morning. Doug, would
20 you like to --

21 MR. PATCH: Mr. Chairman, I'd like
22 to make a motion with regard to the motions. And these
23 are the motions of the Neighborhood Coalition, it was a
24 verbal motion, or oral motion, that was offered this

1 morning, and a written motion from the Town of
2 Londonderry, both of which concern keeping the
3 proceedings open. I would move that we grant the
4 motions subject to the following time frames: That all
5 parties will have ten days in which to file written
6 responses to the information that was filed by the
7 Applicant on Friday and today, and that responses to
8 that first round would need to be filed within ten days
9 after that.

10 MR. KENISON: Second.

11 MR. CANNATA: Discussion for
12 clarity? All parties would have an ability to respond
13 to the first round?

14 MR. PATCH: Yes, yes.

15 CHAIR: Any comments or
16 questions from the Committee on the motion? It's been
17 moved and seconded. All those in favor say "Aye."

18 GROUP: Aye.

19 CHAIR: Motion's approved.
20 We're now ready for the presentation by the Applicant.
21 Attorney Smith?

22 ATTORNEY SMITH: Thank you, Mr.
23 Chairman. I'm Gregory Smith, legal counsel for the
24 Applicant, Tennessee Gas Pipeline Company. And I

1 thought if we outlined, in the way it often is done in
2 a case, the issues that we intend to focus on during our
3 testimony, that might be helpful. And so, I intend to
4 sketch out for you the issues that we think might be the
5 focus of discussion at his hearing. I think it's
6 important to recognize that this company, Tennessee Gas
7 Pipeline Company, has been in business since 1943. And
8 that the facility that is the subject of this hearing,
9 that is the 19 mile facility, or approximately 16 miles
10 from the New Hampshire border northward, it was
11 originally, the first part of it, was installed about 50
12 years ago. That the second pipeline was installed in
13 phases in the 1980's. And that this, therefore, is an
14 existing route containing, as I'm sure you have in mind,
15 an eight inch and a 12 inch interstate gas transmission
16 pipeline. That pipeline is sited and the route is
17 determined by federal law and the Federal Energy
18 Regulatory Commission. That facility, it's now being
19 proposed, would be upgraded. All of those who live
20 along that pipeline or whose communities are developed
21 around that facility have known about the existence of
22 that facility since 1951, and they have known about the
23 expansion of it in the last 20 years. They receive
24 annual reports of the operation of the facility, and

1 there are public meetings that are held, I understand,
2 at least every two years. So anyone who says that they
3 didn't realize the facility was there would be mistaken
4 because if they are owners, including the Town of
5 Londonderry and the Londonderry School District, they
6 get annual reports about the operation of this facility.

7
8 I think it's very important, and again, I am
9 previewing what will be our testimony before you today,
10 to realize that if you approve this upgrade there will
11 be no increase in risk to the public health, safety and
12 the environment whatsoever. What is being proposed is
13 the replacement of an approximately 50 year old pipeline
14 with a new facility which has current, state-of-the-art
15 technology. The existing facility has manual valves.
16 You will hear testimony that this facility is proposed
17 to have automatic closing valves. Those are not on the
18 system, the current loop system, at the present time, so
19 that the facility, again, will not present any greater
20 risk. For those who wish to join the issue about
21 whether there's an incompatibility between the location
22 by Londonderry of its school facilities, including the
23 expansion of the middle school, as I understand it, and
24 the proposal just this past month to proceed with

1 breaking ground on a kindergarten, they have chosen to
2 move their schools to the pipeline knowing the pipeline
3 was there. I don't believe there's any occasion
4 presented for the Town to make a case that the pipeline
5 should be moved. They have expressed their concerns
6 about it. The facility is a safe facility and, in any
7 event, they have made choices about developing the area
8 near it. And that is also true, I understand, for most
9 of the residences which may have moved closer to the
10 pipeline. Those residences were not there when the
11 pipeline was first installed. This right-of-way was
12 dedicated for this interstate purpose a long time ago
13 and people have known that it was there and they have
14 moved closer to it.

15 We do appreciate that people would be unsettled by
16 the recent events that were in the news in the
17 Southwest. You will hear testimony, however, that those
18 events should not change any analysis that you would
19 make about whether this pipeline facility has been
20 properly installed. The new modification will be
21 properly installed and will be properly operated in a
22 way that is safe to human health, the community, and the
23 environment. We are participating in this process,
24 again, as I believe you appreciate, with a full

1 recognition that there is a very broad preemptive effect
2 of national law.

3 I know this Committee is completely familiar with
4 the idea that New Hampshire state law, in a similar way,
5 preempts local land use planning decisions. And
6 therefore, those important public bodies come before you
7 and they may make proposals that they otherwise might
8 have been able to impose upon a facility if you adopt
9 them. And we join those issues and try to address them
10 thoroughly. Similarly, our United States Congress has
11 chosen to make the design, installation and operation,
12 as well as safety factors that are such a concern, I
13 think, of those who have joined in this case a matter of
14 national law. And we believe that it's clear that state
15 law is essentially preempted on all of those matters,
16 save some developing body of law that a 401 Water
17 Quality Certificate allows states to impose conditions,
18 not too broadly but conditions, under that certificate.
19 I didn't come here to argue that point. We simply want
20 the record to be clear that that's how we understand the
21 framework that we are operating in. And I do that, in
22 part, because we have taken the time to look at former
23 proceedings of this Committee and noticed that when
24 these issues arose later there were arguments by other

1 parties that they have been raised too late. So the
2 only reason that I'm making them clear now is so no one
3 will say that they were raised too late.

4 But more importantly, I think everyone appreciates
5 that the Applicant is participating in this process,
6 attempting to cooperate in every way it can, to make the
7 review that the legislature designed in 162-H be as
8 inclusive as possible, to allow all members of the
9 public to be heard, to allow you to receive all
10 information that would come to you so that you will
11 either make decisions here, which the company will
12 comply with, or, as I understand it, you will make your
13 views known at the federal level so that these things
14 can be given effect in an appropriate way. And if we
15 look, then, to the particular issues that may be joined
16 in the next day or two, they fall into certain broad
17 categories, in my view, and you'll be hearing testimony
18 about so-called safety and blasting issues. We want to
19 point out, at the outset, that there are many
20 recommendations that have been made by the state dealing
21 with safety issues, blasting issues, and water crossing
22 issues, environmental concerns of that type. And for
23 the great majority of them the Applicant has made it a
24 matter of record in this case that it will comply with

1 them, the overwhelming majority of them. There are a
2 few where it believes that its proposal is superior, and
3 I'd like to identify those. And you'll be hearing
4 testimony from these witnesses and then they'll be
5 available for your questions or questions of other
6 parties on them.

7 One, begin with the safety issues, is what's
8 referred to as the class of pipe in certain locations.
9 It's my understanding that as we filed our proposal that
10 we coincide with the recommendations at the Public
11 Utilities Commission. I believe, as the application
12 sits before you, that our application concurs with those
13 recommendations from the PUC. With respect to the types
14 of valves that will be on this loop system, as I
15 mentioned, there are manual valves, or gas operated
16 valves, and those are what are in place at the present
17 time. The Applicant believes that the automatic closing
18 valves that it proposed are superior to those which have
19 been proposed in the draft permit conditions by the PUC,
20 and they will give their explanations for why they
21 believe that they will react more rapidly. They are
22 superior technology. And the remote control valves,
23 which are also discussed in the industry, require human
24 intervention to make them work. They require some on-

1 site reconnaissance to determine whether they should be
2 triggered, whereas an automatically closing valve closes
3 automatically. The most important distinction perhaps,
4 and there are others here who know more about this than
5 I, is that the damage that will be caused, if there were
6 a tragic incident, will be caused in the very near few
7 seconds or minutes after that occurs. And whatever
8 happens after that is probably not significant,
9 additional hazard per damage. A remote control valve
10 won't take effect, you'll hear testimony, until long
11 after the period of initial damage, whereas an automatic
12 closing valve, when there's a pressure drop, will be
13 sudden and almost instantaneous in the way in which it
14 will react.

15 We have also presented testimony that we do not
16 think there's any value to using a so-called
17 "intelligent pig," an instrument that would pass through
18 the pipe and is intended to measure deviations in that
19 pipe. It actually detects deviations from a consistent
20 pattern. Now we have proposed, as you may have in mind,
21 to use a so-called "calliper pig" or instrument. And
22 the pipe will be fitted so that either type of
23 instrument could be run through it. But the important
24 point that the witness will address is that an

1 intelligent pig actually is counterproductive in the way
2 in which the pipeline is operated because it's been
3 suggested that running an intelligent pig at the
4 beginning of the operation would create a so-called
5 baseline report. And then if sometime, five, ten or 12
6 years later, another run was made, one would compare the
7 two. And if you saw deviations, that is, where there
8 are joints or different kinds of structures, this
9 instrument will detect those differences in thickness of
10 the pipe. The suggestion would then be that if you
11 looked at that baseline report you would say, "Oh, when
12 we ran it, when we originally installed it, we found the
13 same deviation, so we understand that that was there
14 when we first installed it." The point the company will
15 make is that if they run the intelligent pig at some
16 time later, they will not accept any deviations as
17 recorded in the baseline report and not warranting an
18 investigation. Any deviations -- There'll be a zero
19 tolerance run, and any deviation whatsoever will cause
20 them to investigate why it looks different at that
21 point. So their point is that a baseline report either
22 does nothing to enhance safety, or teach us more about
23 the pipeline, or used the way it's proposed it actually
24 would be less protective. They will be more aggressive

1 later in simply identifying any supposed abnormalities.
2 You will hear testimony about that and why they believe
3 that that's the appropriate way to proceed.

4 With respect to water crossings, there are, I
5 believe, 37 proposed water crossings, and these are
6 addressed in the application and the permit conditions.
7 And for 30 of them, we have agreed that those will be
8 done in so-called "dry conditions." But for seven of
9 them the Applicant believes that a so-called "wet
10 crossing" is appropriate. You will hear testimony about
11 that, and they'll respond to your questions, but
12 essentially it comes to the practical lessons we've had
13 in trying to do this. We understand the Department's
14 view, from a regulatory perspective, on how they want to
15 try to maintain the most stringent standards at all
16 times. We also understand that in the most recent
17 pipeline case there were experiences, in Exeter, for
18 example, where if you tried to cross a body of water
19 that's too long a path to cross you run a great risk of
20 staying in the water body longer and actually causing
21 more turbidity problems than if you had simply crossed
22 it wet in the first place. If the flumes and the
23 barricades fail than you have more of a problem than if
24 you had just done it in the first place as a wet

1 crossing. That's, as I understand it, why the national
2 standard is wet crossings if the crossing is more than
3 ten feet. They will discuss that and answer questions
4 about that.

5 There is also a concern about the turbidity
6 standard that New Hampshire has in its regulations and
7 conditions, which were reflected in the filings, for how
8 to establish a mixing zone and to monitor turbidity.
9 The point that will be made by the witness here is that
10 while we have proposed a slightly altered condition from
11 the one that the Committee has used in the past, the
12 type of monitoring we have learned from the experience
13 in the recent pipeline case shows us that what we get is
14 redundant results by having someone go into the stream
15 and keep sampling all during the time that we're in the
16 stream. And that they're also counter-veiling safety
17 concerns, that while you're not getting any useful
18 additional data there's a very real concern that we're
19 asking people to go into wet conditions next to large
20 machinery and running the risk that someone will be hurt
21 or killed while we are doing that. So they're making a
22 public safety, a safety concern, rather, for the
23 employees and the people working in this project that,
24 therefore, we should modify that condition somewhat

1 because you're not going to get something that warrants
2 taking that sort of a risk. Questions have been
3 raised by Public Counsel with respect to the blasting
4 operations where that might become necessary. Remember
5 we are operating in a trench, if you will, and in some
6 cases we know that the existing eight inch pipeline
7 probably went through rock. The pipeline's not resting
8 on the rock. It's, no doubt, resting on sandbags and
9 sand and it's got a bed under it properly installed.
10 The Applicant has, I believe, come almost entirely into
11 compliance with the recommendations of the expert from
12 Public Counsel, and that will be the testimony, and has
13 agreed that the peak particle velocity as is expressed,
14 of the use of this technique, will not exceed four
15 inches per second. Now what's very important to
16 understand about that, and the witness will testify
17 about this, is that we believe that the pipeline
18 materials and the way in which it's constructed, that
19 the existing operating pipeline, it will be about ten
20 feet away from the trench activity to replace the eight
21 inch line, is able to stand two to three times that kind
22 of peak particle velocity. "Elastic vibration" is how
23 they describe it, which means that if you have an
24 impulse for a very short period of time and you have a

1 wave effect, or if it were a particle that could move,
2 it would move and move back during that very short
3 impulse. And four inches per second is a measure which
4 actually makes it sound like much more movement is going
5 on than there is because the event that sets in motion
6 that kind of a wave, or a vibration, is very, very
7 short. It's far less than a second. So we're talking
8 about, if we were to translate the distance of four
9 inches per second by the corresponding very brief
10 impulse, we're talking about eight one thousand's of a
11 second in movement. It's been described, it will be by
12 the witness, as at 100 to 200 feet out it would be no
13 more than the vibration of someone walking on a floor.
14 It is a minimal kind of vibration. I think Public
15 Counsel's expert will agree that four inches per second
16 is very conservative, that this pipeline could withstand
17 ten to 12 inches per second as a vibration. And so, we
18 will, I think, have agreement there that the standards
19 for blasting have carefully taken into account the
20 existence of the operating pipeline adjacent to this
21 operation. Tennessee knows that pipeline, it is their
22 pipeline, and they believe that they are well positioned
23 to take very good care of that during this operation.
24 Any effects on the other side of the pipeline are out

1 toward wells and properties of course will be minimized
2 because of the low level of use of this kind of force in
3 the vicinity of the existing pipeline. That was what
4 distinguishes this from any type of blasting that might
5 be going on. This will be very carefully managed
6 because of where we're conducting it.

7 Finally, I would like to call your attention to
8 this aspect of the testimony we'll offer and then we'll
9 move into our witnesses. As we prepared this, and spent
10 a great deal of time doing this, I think it became
11 clearer and clearer to all of us that there are
12 standards, of course, that are set down by various
13 regulatory bodies. And we spent a lot of time
14 evaluating how they are applied, or should be applied,
15 to real world operations. The witnesses who will
16 testify from the company for you have years and years
17 and years of experience of actually building and
18 operating pipelines. They know a great deal about how
19 these work in the real world. And so, when they make
20 suggestions about how we ought to do water body
21 crossings or how the blasting operation will occur, I
22 believe that the witnesses you'll have here have a great
23 deal of knowledge about how these things really work.
24 And so, the task for all of us would be to make a

1 reasoned application of these standards and shape
2 conditions and requirements that fit those practical
3 considerations. We will, and have in our filings, I
4 think, made a showing that we will meet all the
5 requirements for approval in the statute, and we believe
6 that at the end of these hearings that Tennessee would
7 warrant the granting of a certificate with appropriate
8 conditions.

9 Our case will proceed in approximately the
10 following fashion. I've asked Robert Haas, who's the
11 project developer, to be the first witness, who's
12 immediately to my right, and to begin with a kind of
13 overview of this project as to assist in framing
14 everyone's sense of where we're going, to be followed by
15 a panel led by Mark Hamarich, who's the project
16 engineer, and has really been running the team of people
17 who have been putting this application together. And
18 he'll be responsible for running the installation of
19 this pipeline, the actual construction job itself. So
20 he will be the man who will be responsible to run a team
21 that will expand to about 400 people to build this
22 pipeline and put it in place properly. And he will have
23 people assisting him, Eric Kleinhenz as provided in our
24 pre-filed testimony and Paul Kretschmer who is in the

1 business of monitoring blasting operations, so when that
2 panel is all here you can ask questions about safety and
3 blasting of any one of the three of them. After that
4 panel it's our plan to present witnesses who will deal
5 with water-related issues separately.

6 So, if I can repeat, what we plan to do when we get
7 to the first technical panel is I'll work our way
8 through general safety issues, if we may, and then move
9 toward the blasting issues. If it doesn't unfold that
10 way we understand that, but we're trying to do this in
11 an orderly fashion so everyone will know to whom they
12 should direct questions. That concludes our opening
13 remarks, Mr. Chairman.

14 CHAIR: Thank you.

15 **ROBERT HAAS**

16 having been duly sworn by Attorney V. Iacopino

17 was examined and testified as follows:

18 ATTORNEY VINCENT IACOPINO: State your
19 name, address, for this Committee.

20 A Name and address? Robert Haas, 68 Stewart Street,
21 Franklin, Massachusetts.

22 **DIRECT EXAMINATION BY ATTORNEY SMITH:**

23 Q Rob, I'm going to begin your testimony by handing you
24 what has been marked as Exhibit 12 for identification.

1 And if you would turn to one part of it which begins
2 with a caption "Direct Pre-filed Testimony of Robert
3 Haas dated May 26, 2000." Do you recognize that?

4 A Yes, I do.

5 Q And have you had an opportunity to review it?

6 A Yes, I have.

7 Q And was that testimony prepared under your direction?

8 A It was.

9 Q And at the time it was prepared, was it true and
10 accurate to the best of your knowledge and belief?

11 A Yes, it was.

12 Q And is it today?

13 A Yes, it is.

14 Q And do you adopt that testimony as your own here today?

15 A Yes, I do.

16 Q Do you have some additional testimony you would like to
17 offer the Committee today?

18 A Yes, I do.

19 Q Could you very briefly describe for everyone your
20 responsibilities with respect to this project?

21 A Yes. I'm the project developer for the Londonderry pipe
22 replacement, which means I'm responsible for all
23 commercial aspects related to this and also participate
24 on the project team that's developing the construction

1 and operation.

2 Q And briefly, what is your background experience as it
3 might relate to this project?

4 A I have a Bachelor of Science in accounting from Central
5 State University in Oklahoma. And I've spent 11 years
6 with El Paso Energy, the last five of those years I've
7 been in marketing and business development for the
8 company focusing on the New England markets.

9 Q And the Tennessee Gas Pipeline Company, which is the
10 Applicant here, is related in what way to the El Paso
11 Energy Companies, if you can describe that briefly?

12 A El Paso Energy is a multi-national corporation involved
13 in virtually all phases of the energy business including
14 production, gathering, processing, treating,
15 transmission of natural gas, transmission of some
16 liquids. We're also involved in power generation in
17 some areas of the country and some areas of the world.
18 Tennessee Gas Pipeline represents one segment of that
19 business, which is natural gas transmission. The
20 pipeline originates in south Texas at the Mexican border
21 and terminates in Concord which is our furthestmost
22 northern point.

23 Q And operates mainly in the eastern United States?

24 A Correct.

1 Q If you'd like to refer to the maps which we have marked
2 as exhibits, actually, would you just, again, briefly
3 describe for the Committee an overall perspective of
4 this project and its route?

5 A Yes. Just stepping back slightly -- As Greg mentioned
6 earlier, this corridor was established in the early
7 1950's. The pipeline, the original eight inch, was
8 actually placed in service in 1952 serving a local
9 distribution company now known as EnergyNorth. So the
10 pipeline, when it was established, ran about seven miles
11 through the Town of Pelham, one mile through the Town of
12 Windham, and roughly nine miles through the Town of
13 Londonderry. It continues on past Londonderry to
14 Concord, but those 16 or 17 miles are the project
15 distance that we're talking about in relation to this
16 project. That system has been reliably and safely
17 operating since 1952. We've had no major incidents in
18 the State of New Hampshire.

19 Additionally, since that pipeline was first laid,
20 there has been a considerable amount of development
21 along that project corridor which is consistent with
22 what we see all across the country. A pipeline, we try
23 and find a route and then development occurs. As
24 communities expand, they move closer and closer to the

1 pipeline. And that's the same as what we've seen in
2 this case. In 1997 we became aware of NEPOOL's movement
3 toward restructuring the way that power is sold in New
4 England. And as a pipeline company, it was quickly
5 recognized that gas fired generation would be the
6 leading method used to fire this new form of energy.
7 And as part of the marketing and business development
8 team, it was our responsibility to pursue potential
9 customers and take contact from potential customers that
10 might be interested in siting new gas fired generation
11 along our system throughout New England specifically.
12 In my role, in this project, that communication was with
13 the AES Company that was developing AES Londonderry.
14 Through the course of about 18 months we were in
15 discussions with more than 20 power developers
16 representing roughly 30 to 40 different projects in New
17 England all competing for the same set of power
18 generation opportunities, so we've had a lot of
19 experience in dealing with different sites. And during
20 that same course of time we have connected at least
21 three power plants, to date, in different parts of New
22 England with additional connections, such as this one
23 that we're developing, adding a significant amount of
24 load to the system.

1 In 1998 we began detailed discussions with AES for
2 the development of this project and pursued an
3 opportunity giving them proposals that they would
4 consider allowing Tennessee to connect to the plant. In
5 doing so, we looked at a variety of alternatives in what
6 is the best way to serve the plant. Through the course
7 of doing business development for a natural gas
8 pipeline, one of the first things we do is look at what
9 route alternatives do we have to serve the load that's
10 required. And typically, the first place we start is
11 "Where's the closest interstate natural gas pipeline?"
12 In this case, we had a pipeline that was roughly two
13 miles from the site and felt that that was a good place
14 to start. And once we determine where the closest
15 pipeline is we determine how much capacity does the
16 pipeline have and what would it take to expand it, if
17 necessary, to the requirements of the new load? And in
18 this case, in looking at that, we determined that
19 utilizing the existing corridor was the best course of
20 action and again, consistent with what we've done in the
21 past.

22 So what this project does is it replaces the eight
23 inch line that originates in Concord, Massachusetts, I
24 mean, in Dracut, Massachusetts, all the way to

1 Londonderry where we have an existing meter station.
2 We're going to take the eight inch out, and for
3 virtually the entire route we will be replacing the
4 eight with the 20 in the same ditch. There's a few
5 deviations for road crossings where it makes more sense
6 to deviate rather than try to remove the old pipe, and
7 maybe a few other locations, but primarily it's the same
8 ditch replacement. So we don't have to expand the right-
9 of-way corridor significantly, in any event, and really
10 only in minor locations.

11 Q The alternatives that you referred to, analyzing whether
12 there is some other way to do this than to use the
13 existing right-of-way, that was the subject of analysis
14 that you performed at the request of the Federal Energy
15 Regulatory Commission? And when I say "you" I mean
16 Tennessee.

17 A Correct, and there's two levels of it. When we submit
18 an application we're required to discuss alternatives.
19 And, as I said before, replacement of an existing line
20 is a very good and preferred alternative in most
21 instances, and that's where we started from. We looked
22 at five different scenarios in total when we made the
23 application. One was a no-build scenario. Obviously
24 that one was discarded because it did not provide the

1 quantity of gas on a firm basis that the power plant
2 needs to generate electricity reliably. The second
3 alternative would have been looping the entire 16 mile
4 corridor in New Hampshire which would mean we would have
5 the eight inch, we would leave the 12 inch in place, and
6 we would add a third line next to it that would carry
7 the quantity of gas that AES required. We discarded
8 that because we felt that replacement of the line was a
9 better option than expanding the width of the corridor.
10 The third option that we looked at was a compression
11 option. It's also very common in the natural gas
12 business to attempt to add compression to the system to
13 create more capacity so that you don't have to add
14 pipeline. The problem that we ran into with this
15 project was that a compression option would create a new
16 compressive station in the State of New Hampshire which
17 would be roughly 20 acres in size, and instead of having
18 19 miles of total replacement we would have about 14 or
19 15 miles of total replacement all on the northern end.
20 So we would have avoided construction in Massachusetts
21 and the southern part of Pelham. We would have added a
22 compressor somewhere in Pelham, most likely, and then
23 replace the line the rest of the way up. We didn't feel
24 that the tradeoff of a brand new compressor station for

1 four miles of replacement on the southern end of the
2 system was a good, sound decision to make. Again, we
3 opted for the replacement of the line. A final
4 alternative would have been to find a completely new
5 route from Dracut to the plant site. And obviously one
6 of our objectives is to minimize any type of
7 environmental impact we have, which means clearing trees
8 and creating a new project corridor. And, once again,
9 we felt we had an existing corridor that had been there
10 since the early 1950's. We felt very comfortable that
11 we could do in-ditch replacement of the pipe and
12 wouldn't have to widen the permanent easement, and felt
13 that that was the best all around alternative given
14 those criteria.

15 And then, Greg, you also referred to, once we
16 submitted that, FERC asked us for some additional
17 analysis on minor route deviations in specific
18 locations. And that was a data request, and we
19 responded to that data request, and that was what was
20 discussed this morning.

21 Q I'll show you this. Do you recognize it?

22 A Yes.

23 Q The document I've handed you is marked Exhibit A59. And
24 what is it?

1 A This is the supplemental responses to the data requests
2 where we looked at those route deviations I was
3 discussing.

4 Q And are some of the people who helped prepare that here
5 today?

6 A Yes, they are.

7 Q Can you say who that is?

8 A Eric Kleinhenz, who's an engineer for us in Houston, was
9 the primary responsible engineer for that analysis.

10 ATTORNEY V. IACOPINO: Excuse me, Mr. Smith,
11 what was that number?

12 ATTORNEY SMITH: Fifty-nine.

13 ATTORNEY GOODMAN: Excuse me. Could you
14 tell me the person to whom the supplemental responses
15 was addressed and the date of the response? Thank you.
16 So these are FERC?

17 A Correct.

18 ATTORNEY SMITH: For the record, Mr.
19 Chairman, this same document appears, or should appear,
20 at Tab G in Supplemental Filing No. 2 which was filed on
21 October 18. I can just say, parenthetically, it has
22 come to my attention that in some of those notebooks
23 things are out of order. I have brought extra notebooks
24 if someone wants to simply replace it. I have also

1 brought inserts where it's come to our attention that
2 there might be a document missing from an individual
3 copy. But Exhibit 59 also appears in Supplemental
4 Filing No. 2, which is -- What's the number on that?
5 It's also Exhibit 71.

6 Q Has this document we've been discussing been made
7 available to parties in the FERC proceeding?

8 A Yes. We filed it as a data response and all interveners
9 on that list would have been mailed a copy. And that
10 was June 30th when we filed that.

11 Q Alright. I'm going to show you an exhibit marked A76
12 and ask you if you recognize it?

13 A Yes, I do.

14 Q What is it?

15 A That's the Draft Environmental Assessment published by
16 FERC, August 11th.

17 Q Can you explain how that would relate to the testimony
18 you've just given?

19 A Yes. FERC would have taken into account our initial
20 application, any data requests regarding environmental
21 assessment, including route alternatives and our
22 responses, and also any comments from other interveners
23 who chose to comment on the environmental aspects of the
24 project up to that point.

1 Q Is this document made available to all interveners in
2 the FERC proceeding?

3 A Yes.

4 Q And why do you call it a draft document?

5 A FERC submits that to all the interveners and other
6 interested parties and gives them an opportunity to
7 comment on it, roughly a 30 day comment period. And,
8 like I said, it was issued approximately August 11th.

9 Q And then FERC will issue a final determination when it
10 concludes its decision making?

11 A That's correct.

12 Q Rob, do you believe that this project as proposed by
13 Tennessee is consistent with orderly regional
14 development and, if you do, would you explain why?

15 A Yes, I do, and it goes back to the comments I made
16 before. If you look at the route and the corridor that
17 exists, as I said, it was established in the early
18 1950's, and the amount of development that has occurred
19 along that corridor since that time, there's been a
20 significant amount, and it's a variety of types of
21 development that have occurred. You have everything
22 from homes and neighborhoods to schools and other
23 businesses that are along the line. For example, just
24 this year two schools broke ground in close proximity to

1 the pipeline, one in Pelham and one in the Town of
2 Londonderry. Both of those broke ground in the third
3 quarter. And, as I said, in addition, there's been
4 numerous residential neighborhoods that have been
5 developed.

6 It's also interesting to note that we have two
7 lines in the ground. One has been there since the 50's,
8 one that was added in the 80's. And there's been a
9 significant amount of development even since the line
10 was put in in the 80's.

11 Q Referring to an exhibit marked A75, can you describe,
12 for the record, what this is?

13 A Yes. This is a map that shows the street level detail,
14 approximately, of the corridor starting in Dracut where
15 we have an interconnection with Maritimes Northeast
16 Pipeline. In addition, our pipeline that comes from the
17 south arrives at that point. Also Portland Natural Gas
18 transmission at that point, and runs through to
19 Londonderry, Sanborn Road, where we have an existing
20 meter station. So the red line represents the route of
21 replacement. It's the existing line where we'll be
22 replacing.

23 Q And does this map show where the schools are to which
24 you were just referring in your testimony?

1 A It gives approximations. As I said, there are schools
2 in the Town of Pelham that abut the project corridor and
3 there's also some in Londonderry that are next to the
4 corridor.

5 Q And do you know where the schools in Londonderry are in
6 relation to the town municipal offices?

7 A They're close. I don't know exactly where they are.

8 Q And again, there are how many, if you know, in Pelham?
9 How many schools located near the pipeline? Two?

10 A One existing and one that's under construction.

11 Q And in Londonderry there are how many?

12 A There's three existing and one under construction.

13 Q And did you also provide other maps that are detailed
14 maps in each of these towns covering the same route?

15 A Yes, we blew up each town to provide more information.

16 Q And those are here available for use?

17 ATTORNEY V. IACOPINO: Has that map been
18 distributed in any form?

19 ATTORNEY SMITH: I think it's a part of
20 the original application in small form, as well as --
21 The original application includes this notebook for the
22 record itself. But you may recall we didn't reproduce
23 for everyone a copy of the FERC application because we
24 assumed it's copied all over, but it was given to the

1 PUC and the DES, so that's in the record, and alignment
2 drawings which show the pipeline from a top/down
3 perspective, the entire route, detail of alignment
4 drawings that are rolled up, so you can actually see it
5 in much greater detail than this map in the application.

6

7 Q Rob, have you evaluated this project and do you believe
8 it's consistent with the state's energy policy?

9 A Yes, I have, and I do believe that it's consistent. And
10 I say that by reviewing what the objective of the state
11 energy policy is. The first is that it meets the needs
12 of citizens and businesses. And I feel that this
13 project is accomplishing that goal because, first off,
14 we are ensuring that through this replacement we will be
15 able to maintain the existing level of service that we
16 have to current customers of EnergyNorth and DistraGas
17 (ph), and it also is meeting the needs of the business,
18 i.e., AES Londonderry. We're designing it so that it
19 can meet the needs that they've determined, 20 year firm
20 contract, 130,000 dekatherms a day.

21 Second, a low cost alternative. We have designed
22 this system by following the existing route to be an
23 economical and a financially viable project and believe
24 that this is the best way to get gas to the AES

1 Londonderry plant. It also is designed to provide for
2 reliability and diversity. And, as I pointed out, the
3 interconnection of this lateral with the Maritimes and
4 Northeast pipelines in Portland actually gives the
5 project developer, the power plant, the option of
6 getting gas from three sources: Western Canadian Supply
7 that would come down the Portland Natural Gas
8 transmission system, the New Eastern Canadian supply
9 offshore Nova Scotia, Sable Island, that is flowing on
10 the Maritime system, and also anything upstream on
11 Tennessee which includes Gulf Coast Gas, gas in Chicago
12 that comes from western Canada, Western Canadian Gas
13 that enters our system in Niagra and Iroquois and also
14 liquified natural gas that enters our system in Everett
15 that is vaporized at that location.

16 So there's a broad diversity of supply that is
17 achieved by going back to that physical location. It's
18 also supposed to provide for safety and health. And as
19 you'll hear from testimony that some of my colleagues
20 are going to present, we have designed this system to
21 meet or exceed all applicable regulations. We've
22 operated a safe system for 50 years and we continue to
23 maintain operating a safe system throughout New
24 Hampshire. It also needs to protect the physical

1 environment, and we've spent a lot of time making sure
2 that our proposal, and the conditions that we've
3 discussed, will allow us to ensure protection of the
4 environment and also to provide for the future supply of
5 non-renewable sources. And that kind of falls back to
6 the reliability and diversity of supply. There's a wide
7 choice of fuel, natural gas origination points by going
8 back to Dracut, and that gives the project owner the
9 opportunity to get a lot of different types of natural
10 gas supply to the plant.

11 I would also like to add that it's not coincidental
12 that the power plant has been deemed by this same
13 council as being along the lines of the state energy
14 policy, and we're merely supplying fuel to that power
15 plant.

16 Q Can you briefly summarize the efforts that you have made
17 to explain the project to governing officials and other
18 officials, and the general public, in Pelham, Windham,
19 and Londonderry, as well as the regional planning
20 commissions, and also what efforts you have made to take
21 into account concerns that they have expressed to you or
22 your colleagues today?

23 A Yes. We initiated this process on a formal basis at the
24 beginning of the year prior to our submitting the

1 application. That going back to as early as June of
2 1999, we had consultations and we started including the
3 towns. For example, we had a walk-through with a
4 reporter and couple of town councilors from Londonderry
5 chose to go along with that to see the project corridor.
6 Again, June of '99, which was roughly eight months
7 before we filed the application with EFSEC. Starting in
8 about December, I guess, of 1999, we began meeting with,
9 November, we began meeting with different agencies, the
10 Board of Selectmen in Pelham, for example, in November
11 of 1999, also with the Board of Selectmen in Windham,
12 and town council in Londonderry, on November 15th of '99,
13 again, well in advance of filing the application. And
14 we've continued to be responsive to those different
15 governing bodies to make sure that they knew where we
16 were in the process, provide them an opportunity to give
17 us any concerns or issues that they may have, and
18 respond to any questions that they may have. And as
19 late as September 25th, as Greg mentioned earlier, we
20 participated in a town council meeting to try and answer
21 questions related to pipeline safety and operations, and
22 that was with the Town of Londonderry.

23 Q I show you an exhibit marked A57 and ask you if you can
24 identify that?

1 A Yes, I can.

2 Q What is it?

3 A This is a summary of the different meetings with
4 municipalities that the project team has participated
5 in.

6 Q And I'm passing around a copy of this exhibit but
7 there'll be one in the original exhibit list. Now, this
8 lists the meetings that you've described with these
9 representatives of these various towns and, of course,
10 the record reflects public meetings as well. Do you
11 have anything further you can provide to the Committee
12 in terms of efforts that you have made to take into
13 account any concerns that have been raised or do you
14 feel that you have been adequately addressing those in
15 accordance with this process?

16 A Yeah. One thing that we did, which was relatively new,
17 was we offered all three towns an opportunity to
18 participate in a Conversation Commission workshop where
19 we would discuss, in detail, the impacts for the areas
20 that they were concerned with. And although not all
21 towns chose to participate in that, it was successful
22 for the one that did. And, as I said, we have continued
23 to answer questions even as late as September 25th. And
24 along the way we have tried to understand the concerns

1 that were raised and make sure that, to the extent
2 practical, our proposal addresses those concerns, or at
3 least we are able to answer the questions that they have
4 related to those concerns.

5 Q And you believe you have been adequately addressing
6 those concerns up to this point in time?

7 A Yes, I do.

8 Q Do you have any further testimony that you would like to
9 offer at this time?

10 A No.

11 ATTORNEY SMITH: I have no further
12 questions, Mr. Chairman.

13 CHAIR: Cross-examination by
14 Public Counsel?

15 ATTORNEY WAGELING: Mr. Chairman, I have
16 questions for the more specific members of the panel as
17 compared with Mr. Haas, and I'd like to reserve my right
18 to ask questions of a more specific nature. Thank you.

19 CHAIR: The Town of
20 Londonderry?

21 **CROSS-EXAMINATION BY ATTORNEY GOODMAN:**

22 Q Yes, Mr. Haas, just a few questions. Isn't it correct
23 that this pipeline proposal is entirely dependent on the
24 demand for power presented to Tennessee Gas by AES?

1 A Let me clarify. AES requested a 20 year contract and
2 this pipeline is specifically designed to meet that.
3 And that's correct.

4 Q And you referenced the FERC filing with some discussion
5 of route alternatives and you referenced the draft
6 environmental assessment filed with FERC. Are you aware
7 that the Town of Londonderry and the Londonderry School
8 District filed comments in relation to the environmental
9 assessment indicating that they had serious concerns
10 with the proposed pipeline impact due to the proximity
11 of the schools?

12 A Yes, I'm aware of that.

13 CHAIR: L o n d o n d e r r y
14 Neighborhood Coalition?

15 ATTORNEY ROCHWARG: Good afternoon, Mr.
16 Haas.

17 **CROSS-EXAMINATION BY ATTORNEY ROCHWARG:**

18 Q I'd like to bring your attention, if I could, to page 4
19 of your direct pre-filed testimony and just ask you a
20 question regarding that, paragraph 4, excuse me, of your
21 direct pre-filed testimony. You testified that there
22 will be environmental and other impacts less severe than
23 if the construction occurred in an area where a
24 completely new route had been established, and I think

1 you briefly addressed them on your direct examination.
2 Can you explain, more specifically, how the
3 environmental and other impacts would be less severe and
4 also if you could tell the Committee what that opinion
5 is based upon?

6 A Yes, I can give a general sense. In order to drill down
7 on the detail I'd have to defer to one of my colleagues
8 but. In order to do pipeline construction you have to
9 have a significant width of space to be able to get the
10 equipment in, construct the pipeline, and then restore.
11 And typically that can be 75 or as much 90 feet in
12 width. And what I was testifying to the fact was that
13 we have an existing corridor that, for a great extent of
14 it, we already have a lot of that width. If we chose a
15 new route that there wasn't already an existing 75 to 90
16 foot swath of cleared land, that we would have to clear
17 that in order to build the pipeline.

18 Q And how does that minimize the impact on human and
19 physical environment as you testified in your direct
20 pre-filed testimony and I believe earlier today?

21 A My testimony is that it reduces the number of acres of
22 land that we would have to clear. And we, as a company,
23 believe that we would prefer to leave that, to the
24 extent practical, leave the trees, not disturb and not

1 create a brand new corridor. There's also additional
2 impacts. You've got road crossings in new locations.
3 You've got additional easements that you have to acquire
4 from existing landowners that, today, you've got
5 easements in place, things like that.

6 Q Are there aspects of the physical environment along the
7 corridor that will be impacted by the construction?

8 A I'm not sure I understand exactly what you're asking.

9 Q Well, your testimony is that limiting construction
10 activities to the pipeline corridor will minimize
11 impacts to human and physical environment. My question
12 for you was, are there aspects of the human and physical
13 environment along the corridor that exist today that
14 will be impacted by the construction?

15 A Certainly. Certainly.

16 Q I believe your testimony previously was that the
17 development and replacement of the eight inch diameter
18 gas pipeline with the 20 inch pipeline, specifically
19 stated in your direct pre-filed testimony, is for the
20 purpose of providing fuel for the proposed AES
21 Londonderry co-generation facility, correct?

22 A That's correct.

23 Q You also testified that it would also be for the purpose
24 of accommodating anticipated future growth in the

1 region, is that correct?

2 A What I said was that it may be available, there may be
3 opportunities for it to be used that way, but the
4 design, the pipeline design, the diameter of the pipe
5 that was chosen is specifically designed to meet
6 existing needs and the increment that's added by AES.

7 Q And there has been no environmental impact statement for
8 the pipeline and power plant combined, is that correct?

9 A That's correct.

10 Q The reason for my prior question concerning the purpose
11 of the facility, rather for the pipeline, accommodating
12 anticipated future growth in the region, you're not
13 referring to existing need, correct, in the Town of
14 Londonderry?

15 A Let me answer it this way and see if this answers your
16 question. What we did was we took the existing capacity
17 of the system and the existing demand of that system
18 that we have contracts for and we determined how much of
19 an increment we would have to add. And that's the new
20 total design of the system, which is the two pipelines
21 combined, the 12 inch and the 20 inch.

22 Q What's the total need, though, outside of the proposed
23 AES Londonderry co-generation facility?

24 A The existing need, the existing contracts we have?

1 Q Correct.

2 A It's approximately 65,000 dekatherms a day.

3 Q Which is what percentage of the possible dekatherms --

4 A For the new design?

5 Q Potentially, correct?

6 A Oh, that's roughly a third.

7 Q You testified on direct examination that, I believe you
8 were referring to Exhibit A75, that you will be building
9 the pipeline up to the meter station at Sanborn, is that
10 correct?

11 A That's correct.

12 Q What happens at Sanborn?

13 A We will be constructing a new meter station to be able
14 to handle the quantity of gas that will be delivered to
15 AES. So at that location the 20 inch will enter our
16 meter station. The meter station will transfer the gas
17 to the EnergyNorth lateral that's proposed.

18 Q So EnergyNorth will construct a pipeline from the meter
19 station to the AES facility?

20 A That's correct.

21 Q And what's the level of coordination that's been taking
22 place between Tennessee Gas and AES?

23 A We have our project engineer dealing with their project
24 engineer to make sure that they're in sync in terms of

1 material acquisition, project design, meter station
2 design, quality specs on all of the equipment that will
3 be located in that area. In addition, we've discussed
4 ways that we can work together in order to complete
5 construction, combining the projects, for example, from
6 a contractor's standpoint, things like that. There's a
7 very high level of coordination and that level will
8 continue to increase as the project gets closer to and
9 particularly during construction.

10 Q And what is the status of permitting requirements, if
11 you know, in connection with EnergyNorth's work?

12 A I'm not following that specifically.

13 Q Do you know whether EnergyNorth has had conversations or
14 dealings with residents concerning easements and use of
15 property for storage and things of that nature?

16 A I can't speak to EnergyNorth's process.

17 Q So you don't consider it to be important to Tennessee
18 Gas' work on the pipeline up to the meter station, what
19 the status is with respect to EnergyNorth's progress
20 there?

21 A I get updates from time to time from the commercial arm
22 of EnergyNorth, and they assure me that they're making
23 progress adequate to meet the needs of the power plant.
24 My contract, though, is a commitment to AES that says I

1 will be in service October 1, 2001, and that's what our
2 company focuses on. We're not involved in the
3 development of or the construction or the permitting of
4 the lateral line up to the plant.

5 Q Are you aware of the existence of whether there's an
6 evacuation plan with regard to the schools or
7 townspeople who are located within close proximity of
8 the pipeline?

9 A I'm not familiar with that.

10 Q Do you know whether there are any considerations for
11 sensitive users, whether it would be elderly or
12 handicapped persons?

13 A I'm not familiar with that.

14 Q Could you tell us whether someone from Tennessee Gas
15 might be able to testify to that today, if you know?

16 A Yeah, they're here.

17 ATTORNEY ROCHWARG: What witness would
18 that be, Greg?

19 ATTORNEY SMITH: That would be Mr.
20 Hamarich.

21 ATTORNEY ROCHWARG: That's fine. I can
22 know who to address the questions to. Thank you.

23 Q You testified previously that the design standards
24 actually exceed some of the federal standards?

1 A That's correct.

2 Q Could you be more specific? Can you tell the Committee
3 every instance that your design standards exceed federal
4 standards?

5 A I'm the project developer and in my role I'm not
6 familiar with the specifics of every design standard the
7 DOT puts forth, but we do have people here who can
8 answer those questions.

9 Q Fair enough. And who might that witness be?

10 A Mr. Hamarich.

11 Q You previously testified that you were merely supplying
12 fuel to the power plant, correct?

13 A That's correct.

14 Q In fact, the power plant couldn't operate without the
15 pipeline, correct?

16 A I can't say that they couldn't operate without this
17 pipeline. They can't operate without a fuel source,
18 I'll agree with that.

19 Q And your pipeline construction is an integral part of
20 the power plant's operation, is it not?

21 A I would say that a fuel source is an integral part of
22 it. This is one option that they considered.

23 ATTORNEY ROCHWARG: I don't have any
24 further questions at this time.

1 CHAIR: Thank you. Members of
2 the Committee? Nancy?

3 **EXAMINATION BY COMMISSIONER BROCKWAY:**

4 Q Good afternoon. I just had one question and it's
5 probably evident from the written material. You were
6 talking about four or five options and one of them was
7 looping. And I wasn't sure I heard exactly what you
8 said, but this is what I thought I heard. You can let
9 me know whether I got it right. If you did this
10 looping, that would involve adding a third pipeline and
11 it would also involve expanding the right-of-way? Did
12 I have that right?

13 A That's correct.

14 Q Okay. Thank you.

15 A And just to be specific, expanding the permanent
16 easement that the pipeline traverses.

17 CHAIR: Michael?

18 **EXAMINATION BY COMMISSIONER CANNATA:**

19 Q In reading the material it was my understanding that the
20 company proposes to header this pipeline with the
21 existing 12 inch pipeline along the way, is that
22 correct?

23 A That's correct. The existing lines are connected in
24 multiple locations and the new lines propose to be

1 connected also.

2 Q So it will provide support to the existing system?

3 A That's right. It will have the capability of being
4 operated in calm.

5 CHAIR: Leo?

6 **EXAMINATION BY COMMISSIONER KENISON:**

7 Q Mr. Haas, you were asked this question before in a
8 different way but let me pose it to try to get what I
9 think is important. Does or would this line serve other
10 than just the AES plant?

11 A The line has to accommodate the customers who are
12 currently served for the existing eight inch line, so
13 the capacity is more than just AES' on that one line.

14 Q And if I understood you correctly, roughly a third of
15 the capacity goes to other customers?

16 A That's a third on the system which is the 12 plus the
17 eight today.

18 Q Okay. And that would be roughly how many customers?

19 A There's two customers that take service, EnergyNorth and
20 District Gas.

21 Q So that they, when they get down to the retail level,
22 however, expand to numerous other customers?

23 A That's correct. Any resident that takes gas from
24 EnergyNorth is a downstream customer of ours.

1 Q And that could be as far north as Concord?

2 A That's correct. Or beyond, because EnergyNorth has a
3 system that connects at Concord and takes the gas home.

4 CHAIR: Michael?

5 **EXAMINATION BY COMMISSIONER CANNATA:**

6 Q Just to expand on that point a little bit. The existing
7 system, you said that it was reinforced in phases during
8 the 1980's and my understanding was three phases?

9 A Four.

10 Q Four phases, okay. And the existing system currently,
11 potentially, has supply problems north of Concord where
12 it drops down to six or four inch pipe?

13 A North of Concord is EnergyNorth's system. That's not
14 Tennessee's system.

15 Q Your system ends in Concord?

16 A I'm sorry?

17 Q Your system ends in Concord?

18 A Yes, yes. It's an eight inch line to Manchester and
19 then a 12 and a six north of that to Concord.

20 Q At what point in time would the existing system today
21 start to meet new phases developed? And I would think
22 one of the expansion possibilities north of Concord
23 would be to extend the Tennessee line rather than the
24 distribution system. So I'm trying to get a feel on you

1 may be building this in conjunction with the power plant
2 now but it appears that, from my knowledge of the
3 system, that at some point in time you would have to do
4 something to reinforce it for existing customers. I
5 want to get a comment on that.

6 A Depending upon where growth occurs on the system. And
7 if you're talking the northern end of the system, a
8 couple of different things would have to happen for us
9 to expand the capabilities. One is we would have to
10 take the 20 inch line and the 12 and increase the
11 pressure so that we could create capacity for the
12 segment that goes from Dracut to Londonderry. And then
13 from that point forward we would have to look at the
14 facilities that exist --

15 Q Let me be a little bit more specific.

16 A Sure. Certainly.

17 Q I don't mean to interrupt you. I meant prior to the
18 expansion of the 20 inch, would the existing system
19 today, the 12 and the eight or the six? That's what I
20 would like you to comment on, what you would have to do
21 to maintain the integrity to today's customers,
22 excluding AES from your equation for the moment?

23 A If -- Okay, rephrase it one more time because today it
24 serves all the existing needs. You're talking about if

1 we weren't doing AES, what would it take to serve more
2 load on the north end of the system?

3 Q As the load grows either in Nashua, Manchester, or
4 Concord, or even further north, what would you see
5 happening with that pipeline system in order to continue
6 to serve customers?

7 A Basically we'd go through the same analysis that we did
8 for AES, although on a much smaller scale, more than
9 likely, which means we'd look at the capacity of the
10 system. We'd determine how much additional capacity was
11 required for the customer. For example, if EnergyNorth
12 needed additional capability they'd tell us, "We need
13 another 10,000 dekatherms a day." We'd go and evaluate
14 that using the GREG model and the AGA formula to
15 determine how much capacity do we have to add, or at
16 what size diameters will we have to add, to make that
17 work. And we could do it either through compression,
18 looping, replacement, or a combination of the three,
19 just depending upon where the load occurs, how great a
20 load is, and what's the best option from a cost and
21 environmental standpoint. Does that get direct enough
22 to your question?

23 Q And see if I summarize this correctly now. That at some
24 point in time you would be looking to expand the

1 pipeline? Maybe it wouldn't be a 20 inch pipeline, but
2 you might be replacing the eight with another 12 to
3 serve existing customers if AES was not in the picture?

4 A Yes. To the extent EnergyNorth required additional, or
5 a customer required additional, capacity, we would have
6 to expand the system through compression, replacement,
7 or looping.

8 CHAIR: Leo?

9 **EXAMINATION BY COMMISSIONER KENISON:**

10 Q Just a rebound question on that. If there is a power
11 plant in the vicinity north of Manchester and they
12 wanted to use gas, is your system adequately sized to
13 provide that volume?

14 ATTORNEY SMITH: Just one moment
15 please, Mr. Chairman.

16 CHAIR: Sure.

17 A In answer to your question, the capability would exist
18 with the system. We didn't specifically design it that
19 way, it's just one of the benefits of replacing with the
20 20 inch and then having the capability later of adding
21 compression to the system. Basically what we looked at
22 was a scenario where a 467 megawatt plant in Merrimack,
23 what would it take to supply that at today's heat rates,
24 and determine whether or not we would have sufficient

1 capacity by adding a compressor somewhere in the
2 southern part of the system. And, I'm just looking for
3 the number here, basically where we ended up is in the
4 area of Manchester we could add, through compression,
5 170,000 dekatherms a day of capability, which is
6 sufficient to fire a much larger plant than exists in
7 Merrimack today if it were required.

8 Q The Merrimack --

9 A Merrimack Station?

10 Q Station in Bow, is that what you mean?

11 A Yes.

12 ATTORNEY SMITH: For the record, the
13 witness is referring to Exhibit A45. And the numbers
14 and the information were contained in a record request
15 response because this was an inquiry earlier on from the
16 EFSEC itself.

17 **EXAMINATION BY COMMISSIONER BROCKWAY:**

18 Q Mr. Haas, would you be the correct person to whom to
19 direct questions concerning the route of the project and
20 the choice of routes? The question has been raised
21 about the routes near the schools.

22 A That would best be directed to Eric Kleinhenz who did
23 the analysis for the FERC data request where we looked
24 at some minor route deviations, one of which was a

1 deviation near the schools.

2 Q And he'll be testifying?

3 A Yes.

4 **EXAMINATION BY CHAIR:**

5 Q For clarity, did you say that there are two schools
6 under construction near the existing pipeline?

7 A That's correct. This fall, in the third quarter, a
8 school broke ground in Pelham and a kindergarten broke
9 ground in Londonderry, both adjacent to the pipeline.

10 Q And are there existing buildings there now and they're
11 adding on or --

12 A It's my understanding these are both new construction.
13 There have been additions to the existing schools in the
14 past but this is two new schools, one in each location.

15 Q And how close to the pipeline are they building those
16 schools?

17 A I think the one in Londonderry is a couple of hundred
18 feet away. I'm not sure about the one in Pelham. Both
19 of them are a couple of hundred feet away from the
20 pipeline.

21 Q So in both instances they knew about the existing
22 pipeline and they knew about the proposal for a
23 replacement?

24 A That's correct.

1 Q Okay. Thank you.

2 A Prior to initiating construction.

3 Q Right.

4 CHAIR: Any other questions
5 from the Committee? Michael?

6 **EXAMINATION BY COMMISSIONER CANNATA:**

7 Q In follow-up to your line of questioning, Mr. Chairman,
8 what about the remaining schools? Do we have, and maybe
9 perhaps you aren't the right person, maybe the Town of
10 Londonderry and others might be able to fill it in, but
11 do you have a chronology of the dates of the pipeline
12 construction and the dates of school construction for
13 the various schools? That's something that can be
14 supplied?

15 A Yeah. Yeah, I have it. I have what I believe to be the
16 answer to that question. In 1949, the Matthew
17 Elementary -- This is just for Londonderry. I don't
18 have it for the other towns but. The Matthew Elementary
19 School was constructed in 1949. Our pipeline was built,
20 as I said, in '51 and put in service in '52. And that
21 was the only school in Londonderry adjacent to the
22 pipeline. That school had additions in 1963, 1967 and
23 1986. '86 would have been after the 12 inch line was
24 installed. There's also a middle school adjacent to the

1 pipeline. That one was built in 1981 and there was an
2 addition to that school in 1997. And then the third
3 existing school in Londonderry was built in 1971 and
4 additions to it were made in 1974, 1976, 1978 and 1996.
5 Again, that last addition would have been after the 12
6 inch line was installed. And then, of course, the
7 kindergarten that has just recently initiated
8 construction.

9 CHAIR: Susan?

10 A And, just for reference, the 12 inch line was
11 constructed in '85 through that area, 1985.

12 **EXAMINATION BY COMMISSIONER GEIGER:**

13 Q If this permit is granted, will construction on those
14 phases of the pipeline that are in close proximity to
15 the schools occur during the summer months when school
16 is not in session or do you anticipate that there will
17 be any construction during the months when school is in
18 session?

19 A We've stated before it's our position that we would like
20 to construct near the schools through the summer months
21 to minimize the number of people and the amount of
22 traffic near the construction activity. One of the
23 things we have to caveat with that, though, is we're
24 going to have to take the eight inch line out of service

1 and it will be out of service for the entire time we're
2 under construction. We have to make sure that we can
3 get the 20 inch line back and in service before the
4 winter heating season hits so that we can take care of
5 heating loads. So we're going to design our
6 construction plan to meet a summer construction, but we
7 will work with the schools to make sure that they
8 understand where we are in the process and coordinate
9 activities with them to the extent possible.

10 CHAIR: Michael?

11 **EXAMINATION BY ATTORNEY M. IACOPINO:**

12 Q I just have a couple of questions. First of all, in the
13 beginning of your direct testimony here today, you
14 indicated that Tennessee Gas Pipeline Company had a
15 responsibility to seek out customers and to provide gas
16 for those customers. What's the authority for that
17 response?

18 A No, that's my responsibility as a business developer for
19 Tennessee Gas Pipeline.

20 Q And it wasn't your intention to convey, then, that that
21 was an obligation placed on Tennessee Gas Company?

22 A That's correct. The obligation that Tennessee Gas has,
23 under open access, is to the extent a customer comes to
24 us and requests service, and we have capacity and

1 they're willing to pay tariff rates for it, maximum
2 tariff rates, we have to provide that service.

3 Q And where does that responsibility come from?

4 A That's FERC.

5 Q So, the federal level?

6 A That's correct.

7 Q You mentioned in your direct testimony that when you
8 provided an exhibit which is marked as Exhibit A57 for
9 identification, which is a list of meetings with
10 municipalities in the planning of the upgrade to this
11 pipeline, in that planning, did you also have occasion
12 to meet with representatives from the Rockingham County
13 Regional Planning Commission and the Hillsborough County
14 Regional Planning Commission which would have
15 jurisdiction over the proposed route?

16 A Yes, we did.

17 Q And I noted that they're not contained on your exhibit
18 here, A57. Can you tell us, generally, what type of
19 contact that you had with them regarding this project?

20 A We had a meeting with each one. Oh, that's right. I'm
21 sorry. It was a joint meeting with all three where we
22 discussed the project and checked to see if they had any
23 concerns or issues with the project.

24 Q And as a result of that meeting were you provided with

1 any concerns or other objections or documents supporting
2 your proposal to them?

3 A No.

4 Q And just one thing that I think you testified about at
5 one of the public hearings, but I just want to make sure
6 we understand it because there's been some talk about
7 the ability of this pipeline to service additional
8 customers. Are you permitted under federal regulations
9 to speculate as to future customers on the line?

10 A FERC has a variety of methods that they use to determine
11 a market test, which is the test you have to pass in
12 terms of deciding what to size, and it's not
13 specifically articulated anywhere "You can do this" or
14 "You can't do that," but you have to demonstrate that
15 there's sufficient market. In some instances they've
16 allowed you to demonstrate, for example, a third of the
17 capacity that you're adding you have market for. It's
18 the pipeline's choice, in this case, to not speculate
19 knowing, however, that if we add compression we can
20 accommodate additional loads in the future. So it's
21 kind of a balance of we're designing the system to meet
22 the needs today and the growth that AES represents and,
23 because of the way it's built, we'll be able to provide
24 for additional capability down the road by adding

1 compression.

2 Q If you did undertake that, would that compression
3 require a 20 acre compression station similar to the one
4 which was considered but rejected for this particular
5 proposal?

6 A Yes, approximately. There is one other way that we
7 could achieve that which would be a commitment from an
8 upstream pipeline like Maritimes, that they would
9 guarantee delivery at a higher pressure. That's a
10 possibility. But the only way I could do it, and
11 control it, would be to add a compressor.

12 **EXAMINATION BY ATTORNEY V. IACOPINO:**

13 Q Could you just give us the date of that joint meeting
14 with those regional planning boards?

15 ATTORNEY GOODMAN: Excuse me, I object.
16 If he doesn't know, maybe he should say -- I don't like
17 this. Maybe I'm wrong. I thought he was sworn under
18 oath and --

19 A We have a summary that I have as backup material of all
20 the meetings we had because we had numerous meetings,
21 and it's just to refresh me of where that meeting took
22 place.

23 ATTORNEY GOODMAN: That's okay. But the
24 conference of non-witnesses is what's making me anxious.

1 A It was February 9th, 2000.

2 **EXAMINATION BY CHAIR:**

3 Q That would be the Southern New Hampshire Planning
4 Commission and the Rockingham Planning Commission?

5 A Yes, that's correct, Rockingham, Nashua and Southern.

6 Q And Nashua Regional Planning Commission as well?

7 A Yes, yes.

8 Q Three regional planning commissions that serve the
9 communities in which the project would be located?

10 A Yes. Correct. February 9th, 2 p.m., in Nashua.

11 ATTORNEY GOODMAN: May I have one
12 redirect follow-up question?

13 CHAIR: In a second. Were
14 there any other questions from the Committee? Town of
15 Londonderry?

16 ATTORNEY GOODMAN: Thank you.

17 **RE-CROSS-EXAMINATION BY ATTORNEY GOODMAN:**

18 Q There's been a lot of discussion about the additional
19 capacity that this project will provide. I just -- I
20 need clarification, I think. Isn't it true that all of
21 the additional capacity provided by this project will go
22 directly to AES?

23 A That's correct.

24 CHAIR: Any other questions?

1 Thank you.

2 ATTORNEY SMITH: I just have one or
3 two, if I may?

4 CHAIR: Yes, I'm sorry.

5 **REDIRECT EXAMINATION BY ATTORNEY SMITH:**

6 Q I want to show you another exhibit marked A79. Can you
7 identify it?

8 A Yes, I can.

9 Q What is it?

10 A That's the Preliminary Determination on Non-
11 Environmental Issues that was issued by FERC August 1,
12 2000.

13 Q And if you turn to page 9, I'd like to call your
14 attention to the third paragraph, either read or
15 summarize it. And what is that determination there if
16 you can describe it for the Committee?

17 A Basically it states that our proposal, the proposal in
18 front of FERC which is the same one that's here, creates
19 an expansion by replacing the pipeline. "It will
20 provide AES with access to competitively priced fuel for
21 its generator and allow it to meet anticipated electric
22 demand requirements consistent with the policy
23 statement," which is footnoted. "Existing shippers will
24 suffer no degradation of service. Indeed, the increased

1 capacity will allow Tennessee to serve not only AES but
2 also to maintain reliable service to existing shippers
3 and provide an improved level of service. In addition,
4 the project will allow for lower cost expansions in the
5 future to meet demand growth and relieve a capacity
6 constraint market area."

7 ATTORNEY SMITH: I have no further
8 questions.

9 CHAIR: Thank you. Ready for
10 the panel?

11 ATTORNEY SMITH: I'd like to begin, Mr.
12 Chairman, with Mark Hamarich, who needs to be sworn, on
13 my immediate right. Should I swear them all at once?

14 CHAIR: Yeah, why don't we do
15 --

16 MARK HAMARICH

17 ERIC KLEINHENZ

18 PAUL KRETSCHMER

19 having been duly sworn by Attorney V. Iacopino:

20 were examined and testified as follows:

21 **DIRECT EXAMINATION OF MR. HAMARICH BY ATTORNEY SMITH:**

22 Q Mark, would you please state your name and address for
23 the record?

24 A Yes. My name is Mark Hamarich from -- Personal address

1 or --

2 Q Business address.

3 A Business address? El Paso Energy Building in Houston,
4 Texas.

5 Q And I'm going to show you a document marked Exhibit A12
6 for identification, and turn to page 3, and ask you if
7 you recognize that?

8 A Yes, I do.

9 Q What is it?

10 A That's the direct pre-filed testimony that we filed in
11 May of the year 2000.

12 Q And is it all there? Did you have an opportunity to
13 review that now or before you began testifying?

14 A Yes, I have.

15 Q And was that testimony accurate, to the best of your
16 knowledge and belief, at the time you prepared it
17 earlier this year?

18 A Yes, it was, Greg.

19 Q And to the best of your knowledge and belief, is it
20 still accurate?

21 A Yes.

22 Q And do you wish to adopt it as your testimony therefore
23 here today?

24 A Yes, I do.

1 Q I want to show you another document marked Exhibit A69
2 for identification and ask you if your recognize it?

3 A Yes, I do.

4 Q And what is it?

5 A That's some supplemental direct pre-filed testimony that
6 was prepared later in the project.

7 Q And do you know how recently, approximately, this was
8 prepared?

9 A Yes. Last Wednesday, I believe.

10 Q This testimony was prepared by you or under your
11 direction?

12 A Yes, it was.

13 Q And at that time you prepared it, was it true and
14 accurate to the best of your knowledge and belief?

15 A Yes.

16 Q And is it still today?

17 A Yes, it is.

18 Q Therefore, do you wish to adopt it as your testimony at
19 this hearing?

20 A Yes, I do.

21 Q For the record, would you describe, briefly, your
22 responsibilities on this project Mark?

23 A Yes. I'm assigned as project engineer for the
24 Londonderry 20 inch replacement project. And I'm

1 basically responsible to coordinate the technical team
2 for the project.

3 Q And your educational background and experience as it
4 would relate to this project?

5 A Yes. I've worked 23 years in the industry, all with El
6 Paso Energy. I'm a graduate of Cornell University in
7 civil engineering. I'm a registered professional
8 engineer in Texas. And my experience with El Paso
9 Energy has been on the natural gas transmission side
10 primarily in the engineering, design, construction, and
11 operations of natural gas transmission pipeline systems.

12 Q And have you been responsible for designing and building
13 projects like this before?

14 A Yes, several.

15 Q Can you give us any idea how many, Mark?

16 A Over the last 20 years I've probably been involved in 50
17 projects. One or two of them was actually the original
18 phases, not the 1951 project but, the 1981 project and
19 the 1985 project of the 12 inch Londonderry project that
20 we're doing here.

21 Q What were your responsibilities on that project in the
22 1980's here in New Hampshire?

23 A In the first project I was the design engineer, and I
24 was also out on the construction as a construction

1 engineer of the 1981 project.

2 Q You mentioned that you will be responsible for managing
3 a project team. Can you tell us, in general terms, who
4 will be on that team and how many will be in different
5 categories of responsibility?

6 A Yes. Over the past year our team, since we started the
7 process here, once we filed with FERC and started
8 preparing the application for the Evaluation Committee
9 that we're discussing here today, we've had, basically,
10 seven or eight people that have been primary contacts on
11 our team in the areas of environmental, right-of-way,
12 engineering, and most of those people are here and will
13 be providing testimony today or be here to answer
14 questions. We also have a support staff, primarily El
15 Paso Energy employees housed in Houston, and some
16 consultants working in the field, and elsewhere of about
17 25 to 30 people that have been supporting this process.
18 When we get to construction it will ramp up. We will
19 probably have approximately in the range of say 20 field
20 inspectors and engineers to oversight the construction.
21 We'll have a third party contractor that, as stated in
22 the application, could ramp up to as many as 400
23 employees to build this project. And then we'll ramp
24 that down once we commission it and place it in service.

1 We'll turn it over to our operations people.

2 Q And as you move toward construction, will your team
3 develop more extensive interactions and plans to deal
4 with governmental agencies, particularly police
5 departments and fire departments and so forth, all
6 within the project area?

7 A Yes. I believe, in fact, one of the commitments in the
8 application was that we will be preparing what we call
9 a "Project Specific Emergency and Contact Plan" so that
10 all the communities know who to contact, who's here,
11 what the chain of command will be, as we construct this
12 project because, like I mentioned, we will have an
13 impact of approximately 400 people on the project at one
14 time. So we'll have a specific plan and work with the
15 communities on that.

16 Q And was the application that was made to the Federal
17 Energy Regulatory Commission for this same project
18 prepared, if you know, by the same operation of unit
19 that you're assigned at your company?

20 A Yes, it is. It was prepared -- There's been a few team
21 member changes but it's been the same unit and it's been
22 consistent since the project's inception.

23 Q And if a FERC certificate is granted and all approvals
24 are granted in due course, when do you plan to actually

1 begin construction in the field in this project and when
2 do you expect to complete it?

3 A Yes. As we stated, again, in the application, and it
4 has been our plan from the start of this project, our
5 goal is to have gas service available by October 1st,
6 year 2001. Therefore, our construction schedule, we've
7 backed that up. We're planning on starting construction
8 in May of 2001. So, primarily the construction would
9 take place between May of 2001 and October of 2001.
10 There may be some activities prior to May, such as
11 moving in of pipe and moving in of equipment and
12 contractors and personnel. And then after October 1
13 there may be some activities for cleanup and then the
14 follow-up monitoring to assure environmental compliance,
15 and things, for a year or two after. But that's the
16 primary schedule, May 1, 2001 to October 1, 2001.

17 Q And you expect to be the person who will manage that
18 entire team leading up to and through to completion of
19 that construction project?

20 A Yes. The way it's planned now is our current team, the
21 way our company's structured, we'll take this current
22 team and take it through the permitting phases,
23 oversight, environmental inspections, select
24 contractors, and be responsible for all the compliance

1 from a design standpoint, construction standpoint,
2 environmental, and whatnot, through the process.

3 Q I'd like to show you this large notebook, Exhibit A1 for
4 identification purposes. Take a moment to look at it.
5 Can you tell the Committee what that is?

6 A This is the Application for Certificate of Site and
7 Facility to the New Hampshire Energy Site Facility
8 Evaluation Committee that we submitted on February 11th,
9 year 2000. I believe also, Greg, there were some
10 attachments to this, some alignment drawings and
11 possibly the FERC permit.

12 Q FERC application?

13 A FERC application, I'm sorry.

14 Q And will Tennessee comply with applicable state and
15 federal requirements related to environmental
16 considerations?

17 A Yes. Tennessee will comply with all the requirements in
18 here from an environmental standpoint. And since then,
19 through filings with and discussions with DES, we have
20 filed, we have modified and updated the environmental
21 construction plan and have submitted that for the
22 record. And there's other issues that will be discussed
23 through these hearings. And John Auriemma, our
24 principal environmental scientist who's here, him and

1 his team will be here to testify on those things after
2 in more detail.

3 Q So, what you're telling the Committee is if you wanted
4 to find, in this record, where you're demonstrating that
5 you're going to comply with environmental standards you
6 would want to look in Exhibit A1? I think you just
7 referred to that.

8 A Exhibit A1.

9 Q You'd want to look at the FERC application, which was
10 filed as part of A1, the alignment drawings. And then,
11 there are further submittals that have been made in the
12 course of this proceeding including responses to data
13 requests, responses to state agency conditions, is that
14 right?

15 A That's correct.

16 Q And John Auriemma, who is going to testify, is the
17 person who has been involved, principally, with
18 environmental issues?

19 A Yes. John and his team will be able to take direct
20 testimony on that, for the record.

21 Q For the sake of brevity, if one wanted to know how
22 you're proposing to comply with safety concerns would
23 you look in the same places in the record?

24 A Yes. The application addresses the safety standards

1 that we will adhere to in this process, and it outlines
2 both issues of compliance with DOT and federal safety
3 standards. We hear safety a lot, and safety's at
4 several levels. One is the actual safety as it relates
5 to the design of the pipe and from an OPS, Office of
6 Pipeline Safety, DOT federal regulation oversight. And
7 then we've got the level of safety as far as health and
8 human safety. That our company has a health and safety
9 handbook in here that --

10 Q In the application?

11 A In the application, that how we protect the health and
12 safety of the employees and the community while we're
13 working. And then there's the level of safety from a
14 contractual standpoint in our contract. So it's at
15 different levels of how we address it. And there's
16 other things in here about how we X-ray, and things like
17 that, how those safety standards are addressed. So it
18 goes into several different levels in the application.

19 Q Does Mr. Kleinhenz, who's here with you today, have a
20 role with respect to some of these responsibilities
21 you've been describing?

22 A Yes, he has. As design support Eric and I really have
23 worked closely together on these, and there's some
24 overlap in those issues, and that's one of the reasons

1 we're up here as a panel today.

2 Q Mark, based upon your 23 years of experience with
3 Tennessee, do you have an opinion as to whether
4 Tennessee has the managerial and technical capability to
5 design and construct and operate this facility in
6 accordance with all applicable requirements of the law,
7 including any conditions that might be contained in a
8 certificate from this Committee?

9 A Yes, I do. I'm very proud to say that Tennessee Gas
10 Pipeline has the capabilities to both manage this
11 project and successfully implement all the standards and
12 permit conditions that are agreed to, and to comply with
13 all those in order to construct a pipeline both safely
14 and environmentally sound and then continue to operate
15 that pipeline. We have extensive experience doing that.
16 We're fortunate, as an operator, that we have both the
17 managerial capabilities, our company, and the technical
18 capabilities to manage and implement a project like
19 this, and we use third party consultants to supplement
20 that in the construction area and some of the other
21 expertise. But we're able to both manage it and bring
22 strong technical support as an operator. And as this is
23 our pipeline, it's a pipeline we're building for
24 Tennessee Gas Pipeline, it's a pipeline we have

1 ownership in.

2 Q Do you know whether Tennessee received a certificate
3 similar to the one it's seeking here today for the
4 upgrade of the 12 inch line?

5 A Yes. I believe all the phases, and I could be wrong
6 but, the statutes change so, but according to my
7 records, every phase along the way, even the 1981
8 project, we had to go through a similar process like
9 this for all the upgrades in New Hampshire.

10 Q And you've had responsibility before, I think was your
11 testimony, to construct a facility in accordance with
12 those requirements?

13 A Yes. I have not -- Yes.

14 Q And you did it?

15 A Yes, we did.

16 Q Do you also have an opinion, based upon your 23 years of
17 experience, as to whether the proposed project, a
18 natural gas interstate transmission pipeline, would have
19 an unreasonable adverse effect on public health and
20 safety if it were built as you propose?

21 A Yes, I do. It is my belief that this project will not
22 have an unreasonable adverse effect on public health and
23 safety. And I say that because, again, Tennessee has a
24 very effective safety program. It's one of the most

1 effective safety programs in the natural gas
2 transmission industry. We have an excellent safety
3 record in this region of the country, and in New
4 Hampshire, on these systems especially. And we, through
5 our extensive experience in building and designing
6 those, we're certain that we can both design, construct,
7 and operate this pipeline without having any
8 unreasonable adverse effects on public health and
9 safety. And in our testimony today we're here to
10 present proof of that situation.

11 Q Mark, in the course of your work on this project, have
12 you become aware of an expressed concern that federal
13 standards might be thought of as minimum concerns and
14 the implication, therefore, might be that they're not,
15 somehow, sufficient or adequate to assure protection of
16 health and safety in the environment?

17 A Yeah, I hear that and I also hear the expression, and
18 the question's come up and going to come up, "meet or
19 exceed federal standards." I just want to make the
20 point that the standards, although they're expressed as
21 minimum standards, these are proven industry standards
22 that are established and have safety factors to protect
23 the public from a safety point of view. They're
24 accepted standards. They're proven standards. They

1 will provide adequate protection, from a safety
2 standpoint, if you consistently adhere to these
3 standards. And, as Tennessee has done, if you
4 specifically take these standards, these what they call
5 minimum or performance standards, you adapt them and you
6 write strict written standards, strict, whether it be
7 emergency operating procedure manuals, O&M manuals,
8 construction specifications, pipe specifications, you
9 adapt those. You write strict procedures. You adhere
10 to those procedures. And also, one of the programs is
11 as the technology increases, as you find out things, you
12 learn and you expand on those.

13 So, in a short answer to your question, we want to
14 make sure that when you hear minimum standards, minimum
15 standards, you still have safety factors. For instance,
16 your minimum pipe design still provides you several
17 factors of safety in that pipe, so it's not like this is
18 minimum. So, inherently, all those standards have that
19 built in and we've adapted those, quantified those, and
20 taken the overall comprehensive program to bring those
21 into our practices.

22 Q In your pre-filed testimony, Mark, Exhibit A69 that you
23 looked at a few moments ago, you describe certain causes
24 for failure of interstate transmission gas pipelines.

1 A Yes, I did.

2 Q What are those causes?

3 A The primary cause, as we discussed, and I don't want to
4 get into the percentages exactly because it depends on
5 the statistics you look at but, the primary cause of
6 failures from natural gas transmission pipelines is due
7 to outside forces or third party damages. That includes
8 both -- The primary is third party excavations, and then
9 outside forces also includes earthquakes, floods, forces
10 of nature. The other is corrosion, both -- And
11 corrosion, we want to look at in two different areas,
12 one is internal corrosion, one is external corrosion.
13 The other is material and construction defects. And
14 what we mean by that, the material, it could be
15 attributed to the material being defective. The other
16 could be attributed to the construction techniques being
17 defective. And the fifth cause, the other cause, is to
18 human nature. And what that is is it's mainly addressed
19 to an operator error where an operator may look at a
20 situation and inadvertently, I'd have to read my
21 testimony, basically make the wrong decision based on
22 those operating conditions at that time that may cause
23 a failure.

24 Q Alright. Now, perhaps for a moment we could just touch

1 on each one of those causes for failure. You're aware
2 of the recent news accounts of the tragic incident in
3 Carlsbad, New Mexico?

4 A Yes.

5 Q And, have you, if you have, become aware of any
6 preliminary indications of what might, and I emphasize
7 might, have been a contributing cause to that particular
8 accident?

9 A Well, the data I have, there's been no real
10 determination of what's happened although the press and,
11 I believe, in certain web sites, there's indications
12 that internal corrosion was involved in that failure,
13 but that may not have been the cause or not. But that
14 internal corrosion was involved in that.

15 Q The National Traffic Safety Board conducts an
16 investigation --

17 A National Transportation Safety Board, yes.

18 Q Transportation, I'm sorry, in the same way that they
19 might investigate other transportation accidents like an
20 airplane accident?

21 A Yes. They're an oversight of another branch of the
22 government than the Department of Transportation and
23 OPS, and their job is to investigate those --.

24 Q Do you know, typically, whether that is a lengthy

1 process?

2 A I believe it is a lengthy process.

3 Q In any event, it has not concluded yet, with respect to
4 this incident in New Mexico?

5 A No, it has not.

6 Q Now you mentioned that there's some preliminary
7 indications, apparently it made its way into the public
8 record, that there might have been internal corrosion in
9 this pipeline. That doesn't necessarily mean that was
10 the determination or the cause. Now what I'd like you
11 to address for the Committee is, assuming for the
12 moment, that internal corrosion was a problem on that
13 pipeline, how is that you're going to assure that's not
14 going to be a problem here, that type of problem?

15 A Let me separate that. I'm going to just address
16 internal corrosion. I'm not going to relate it to New
17 Mexico or what. But let's look at internal corrosion
18 and let's look at the possibility of internal corrosion
19 in a system in New Hampshire. One thing you have to
20 understand for internal corrosion, there's two or three
21 factors that have to happen. Number one, you need some
22 kind of liquid. Liquids have to be dropping out of the
23 gas stream in the pipeline. And, in addition to those
24 liquids, there has to be some impurity in those liquids

1 so that if the impurities in the liquid stay in contact
2 with the pipe over time there could be corrosion. Now,
3 there also has to be a pipe configuration and pipe flow
4 where that liquids don't get swept [sic] up with the
5 gas because it's a normal process that if the liquid
6 drops out, and the gas is flowing right, it'll just get
7 pushed away. So your flow conditions have to be such
8 that the gas keeps moving. The pipe has to be designed
9 where there's not any dead spots or low spots.

10 In New Hampshire, number one, on our system, we've
11 had no indication of internal corrosion since the
12 pipeline was installed, either on the eight inch or the
13 12 inch. And the primary reason for that is the
14 location of this pipeline on our system is such that we
15 have dry gas. And what I mean by that is it's not --
16 Where's the liquid come from? Well, it either comes
17 from production areas, which Rob talked about earlier --
18 It used to be our only production area was in the Gulf
19 of Mexico. Now we have production areas coming from
20 Canada, but they're several hundreds and thousands of
21 miles away. And I'll talk about some checks and
22 balances there, but that's where liquids could enter the
23 system. The other thing is it could be storage systems.
24 Our closest storage system is three or 400 miles away

1 where we withdraw gas from storage. So either one of
2 those could cause liquids. By the time the gas gets
3 here it's pipeline quality dry gas. It has been since
4 1951. We've seen no indications of that. The way the
5 system's designed we see no change in that system. So
6 -- We also monitor. We've gotten over the years -- We
7 monitor the gas that comes in our system. We monitor it
8 for different things, liquids and some impurities. So
9 we don't have any reason to believe that this system
10 will ever get the liquids or the impurities that could
11 cause internal corrosion.

12 Also, the way the pipe's designed, we don't have
13 any dead spots. The way it's going to be operated on
14 the flow system it's going to be there. So, let me
15 assure, it's a different system than may be elsewhere
16 where internal corrosion may or may not occur.

17 Q You mentioned that you had no evidence of internal
18 corrosion on the eight or 12 inch lines here in New
19 Hampshire. On what did you base that statement?

20 A Well, every time we maintain or inspect the eight inch
21 pipeline, over the 50 year history there's several times
22 that the pipeline's been exposed. There's areas that's
23 been replaced at valve tie-ins. We hydrostatically
24 tested this line in 1982. We had to cut manifolds in.

1 We had to make changes for different things. So, we've
2 never seen any indication inside the pipe here, or in
3 our whole system in the Hopkinton area near New England
4 where we've seen this, especially here, any evidence of
5 the internal corrosion.

6 Q Do you have any kind of filtering system in the pipeline
7 that could be relevant to this issue?

8 A There's no specific filtering on this project, let's
9 say, but at each of our compressor stations there's
10 filters installed at some of our interconnects where
11 we're interconnecting with other companies where there's
12 a risk of picking up liquids. And we have gas quality
13 issues. We've got filters installed there. For
14 instance, the Maritimes project is filtered several
15 times before it gets here but it's also filtered just
16 upstream in Dracut before it enters our system. And the
17 gas is monitored and filtered in several areas as a
18 check and balance to maintain that dry pipeline quality
19 gas.

20 Q Now there's been some testimony already about certain
21 techniques and methods that are employed in the design
22 of a pipeline, or its operation, to assure adequate
23 protection of public health and safety. Can you
24 describe for the Committee what those various measures

1 are that you use now and you'll be using on this
2 facility?

3 A Okay. As far as -- Let me go back. This is a -- And
4 what I want to do is I want to take this in context of
5 the failure types we talked about before. It's really
6 a comprehensive effort for us. We have to tie
7 everything together to assure a safe pipeline. It's not
8 one individual aspect that assures the safety of the
9 pipeline. So if we go back to the third party damage,
10 for instance, what we do is we're members of the Dig-
11 Safe Program and we're big promoters of the Dig-Safe
12 Program. We have to let people know where our pipeline
13 is. They have to know before they excavate that they
14 need to call Dig-Safe. Dig-Safe will notify us. We'll
15 mark our pipeline. We make an effort to make sure our
16 pipelines are marked, that people know where the
17 easement is. Therefore, we can control that third party
18 activity. And on this -- So we're a member of that Dig-
19 Safe. We've been operating that way. We're going to
20 operate that way in the future. Another thing
21 we're doing on this project, at road crossings we're
22 going to put in concrete coated pipe. We're going to
23 bury the pipe five feet deep, which is a little deeper
24 than required by regulations, and we're going to put one

1 inch of concrete on the pipe. This gives us a little
2 extra safety factor should there be some activity at the
3 road crossings putting in fiber optic cables or sewers,
4 or whatever activities are done in the road. So that's
5 a way we can look at the third party damage.

6 We also do helicopter overflights. And according
7 to regulations, patrols are only required on a system
8 like this every four to six months. We'll fly this at
9 least monthly, and maybe more, and anybody that's on the
10 pipeline will see that. And that's a way we can monitor
11 activities and encroachments on the right-of-way.

12 The other thing is we've got a lot of experience
13 building in New Hampshire so we know how to place the
14 pipeline in there to prevent any kind of damages from
15 floods, and whatnot, or earth movements. So we're going
16 to take that technology that we know and we're going to
17 build this pipeline so that we don't have erosion in
18 streams, so if there is a hundred year flood event that
19 the soil washes away and the pipe's left exposed.

20 The other things, I talked about internal
21 corrosion. We have a system that is not conducive to
22 that. We will have the line pigable should sometime in
23 the future there will ever have to be pigging to remove
24 liquids. So the pipeline will be pigable.

1 Q What does "pigable" mean, Mark?

2 A You can pass a pig through the pipeline, whether it be
3 an intelligent pig or a cleaning pig, or whatever, so
4 that you don't have -- You hear things now that "This
5 line wasn't pigable." Well, they used to build
6 pipelines with 20 inch pipeline and the valve would be
7 restricted so you can't pig because you can't squeeze
8 through that. This will be full opening all the way.
9 As far as external corrosion, we have what I think is
10 one of the best coatings, fusion bond epoxy coating, one
11 of the best coatings in the industry. Our research lab
12 worked to develop this. We have that mill applied. We
13 put -- When we do the field joints we use the same
14 protective equipment. We don't cut any corners when we
15 put the welded area, when we coat it in the field. We
16 protect that when we backfill it. We have cathodic
17 protection on the line to protect any wall-offs due to
18 external corrosion, so that will be designed into the
19 system. From a mechanical standpoint, from mechanical
20 failure, I mean, material failure, our pipe mill specs
21 are very stringent. They're beyond both the -- I think
22 API has, AFI 5L, has two levels of pipe steel now. I
23 think they got L1 -- I forget the two but -- Our
24 specifications in regards to metallurgy and toughness

1 and mill inspection are even beyond the codes, so all
2 that's controlled.

3 Q What do you mean by "mill inspection"?

4 A What mill inspection is, we start our inspection of the
5 pipe, not when it arrives on the site, we start it at
6 the pipe mill. The steel shows up from the steel mill.
7 We do metallurgic tests on the steel to make sure the
8 steel has all the components according to toughness, and
9 whatnot, because toughness is an important thing in
10 third party damage, and how ductile your pipe is and how
11 strong it is. You don't want it brittle.

12 So there's strict requirements there. So the
13 inspection, we have three or four inspectors in the pipe
14 mill while the pipe's being made and any pipe that
15 doesn't pass gets rejected. So it's not only counting
16 on the mill, it's rejected. The same thing when it goes
17 over to the coating yard. That pipe's inspected there.
18 So we have a strict spec. We inspect it, we transport
19 it here, then we install it correctly. And we believe
20 that process, along with a hydrostatic test at the end,
21 will reduce any kind of possibility from a material
22 defect causing a failure.

23 Q Is this material inspected while it's still a flat sheet
24 of material before it's, I think you described it as,

1 "hooped"?

2 A Yeah, before it's hooped. It's basically coming from
3 the mill and then it's -- I don't believe it's inspected
4 there. All the toughness tests, and everything, and all
5 the metallurgic tests are put on when it's made into
6 pipe, so should the pipe mill receive steel that's
7 defective it has to go back. There may be instances
8 when it goes to roll they may see some lamination,
9 they'll trim it, things like that.

10 Q Do you do non-destructive testing of wells in the field?

11 A Yes, all the wells. In fact, I think the requirements
12 are 20 percent. We do non-destructive testing of 100
13 percent of the wells by means of X-ray.

14 Q You X-ray the welding on the pipeline after it's in the
15 field?

16 A Right. And what you're getting into there is what they
17 call "construction defects." Construction defects may
18 be attributed to bad welds, a contractor denting the
19 pipe, or something like that. And by close inspection,
20 by strict construction specifications, by
21 hydrostatically testing the pipeline, by doing 100
22 percent weld X-ray, by running the caliper pig, those
23 are the processes we put in to assure that any risk from
24 a construction defect is practically down to zero.

1 And then we -- The other thing, the last thing, is
2 operator. One of the things I mentioned was operator
3 error. This system will inherently have some -- The way
4 it's designed it's not got compression, it's got a
5 point. We've been operating this system for 50 years.
6 The operations hasn't changed that much so the people
7 that are operating this, we're going to have to make
8 some adjustments for the new meter station and service
9 to the power plant as opposed to what we're doing now,
10 but the operations, the people are trained in how they
11 operate the system, which valves to open, which valves
12 to close, gas controls, trained on monitoring the
13 system. So, by working those aspects we reduce any
14 possibility of a human error causing any incident.

15 Q You said you perform hydrostatic tests. Simply, what is
16 that?

17 A Hydrostatic testing is where you fill the pipeline after
18 it's constructed, usually, or later on in years, to re-
19 verify the integrity. You fill the pipeline with water
20 and you pressurize it, normally above the operating
21 pressure of the pipeline, to assure the integrity of
22 that pipeline, at that point in time, of its strength.
23 And to make sure if any defects are there, if there is
24 a defect there, that you will find it because you will

1 be well exceeding any gas pressures in that pipeline.

2 Q And you're going to be doing that on this pipeline?

3 A Yes. And it's a controlled environment in how it's
4 done.

5 Q And you mentioned cathodic protection. Can you briefly
6 describe what that is and why you do it?

7 A Cathodic protection is you basically put DC current on
8 the pipe and you have an anode, usually you have an
9 anode with metal out here. And what the current does,
10 instead of the electrode leaving the pipe and know
11 where to go it's going to control that and keep the
12 current going within the pipe so that the metal, in
13 reality the metal never leaves the pipe. So you're
14 preventing any kind of corrosion by putting this low
15 electrical current on the pipe and maintaining that over
16 the years, someone quoted, sorry, maintaining that, and
17 then at regular intervals checking to make sure that
18 it's working.

19 Q Are you proposing to do that on this project?

20 A Yes. The system now is cathodically protected. We will
21 have to do tests -- Once the eight inch comes out and
22 the 20 inch goes in, we'll have to do tests to see where
23 the optimum place is to place these, what I call, a
24 ground bed, a rectifier, where on the pipeline we want

1 to put this current. We have some existing ones now but
2 the interaction between the two pipelines, and because
3 of the new pipeline being in there versus the old and
4 different conditions, that'll be designed into the
5 system.

6 Q And will this -- This is steel pipe?

7 A Yes, it is, it's steel.

8 Q Will it be covered with something, with anything?

9 A As far as coating or as far as --

10 Q Anything?

11 A Yeah. The pipe will be coated at the mill, except for
12 the last two inches where there's welding, then it will
13 be coated where the welding is, and then it will be
14 buried to a minimum of three feet along the route and,
15 in some areas, roads, rivers, streams, other areas that
16 may be deeper.

17 Q And what is that coating that you're describing?

18 A It's usually bond epoxy coating. It's not -- It's
19 really -- It's not like a tape. It's actually, you heat
20 the pipe to like 450 degrees, I was lucky, I was at the
21 pipe mill about two weeks ago so this is fresh in mind,
22 that pipe to about 450 degrees. Well, you blast it
23 first. You blast all the outer part out. You put a
24 pattern in it. You actually put a pattern in the steel.

1 You heat that to 450 degrees and that thing's actually
2 bonded. It's a powder that goes on the pipe. And it's
3 not a wrap coat, like you tape something. It actually
4 is embedded in the steel. And we put a minimum of 14
5 mls on that pipe to coat it. We use the same process in
6 the field after the weld. We don't use a tape coat, or
7 we don't use a shrink sleeve, or we don't use a lesser
8 type coating. So we have a continuously coated pipeline
9 with this thin film coating.

10 Q What's the purpose of putting that coating on the
11 pipeline?

12 A The purpose of putting the coating on the pipeline is to
13 protect the pipe from external corrosion. And again,
14 like I said, it's a comprehensive program. You have to
15 get a coating but the coating then is only as good as
16 you install it and backfill it, so you got to go into
17 construction specs. But the primary purpose is to
18 protect the steel from the environment to prevent
19 external corrosion. And along with good backfilling,
20 and realizing you may not have every single point
21 covered no matter how good you do, then the cathodic
22 protection on top of that adds extra integrity to the
23 pipe.

24 Q Do you think, Mark, it's important to take care in how

1 you lay the pipe into the ground?

2 A Yes, I do, and our company does, yes.

3 Q And what do you do to try to make sure that's done
4 properly?

5 A Well, I'd say three points. One is a comprehensive
6 written set of specifications so that you know what
7 you're trying to accomplish and what you want to do.
8 The second is you need contractors that have met
9 qualifications. There's probably only six or seven
10 contractors that we use that would qualify on a project
11 like this, okay? So they have to meet qualifications
12 that they can do it in a quality manner, a safe manner,
13 comply with all laws, regulations, in regards to
14 blasting, OSHA, DOT compliance specifications. Third,
15 you need to inspect that. No matter how good your specs
16 are, and no matter how good your contractor is, you need
17 to have an inspection team and a management team from
18 the company that works with the contractor that assures
19 that these specifications are met when it's put in.

20 Q I think there'd been earlier reference to placing it on
21 some kind of a padding. Can you describe what you put
22 the pipe on when you lay it in the ground?

23 A Well, if the soil's nice you can put it right on the
24 soil, if it's sandy, nice soil. Areas here, in

1 wetlands, and in some other areas, we do hit some areas
2 where the soil's nice. You can lay the -- Well, even
3 then -- I'm sorry -- In a wetland you may just lay it
4 in a wetland. There's really -- You don't want to bring
5 any foreign matter in there, or whatever, protect the
6 bottom of the pipe. And in normal cross-country
7 pipeline you'd use like sandbags, or something, to keep
8 the pipe up about, oh, three to six inches. I forget
9 our specs now, we've changed them, but I think they're
10 eight inches off the bottom. And then you would
11 typically -- What you'd do there is -- That's so you
12 have a complete cushion around the pipe of good soil to
13 backfill. You don't want the pipe sitting on that hard
14 bottom, especially if there's rocks in there or anything
15 like that. So, that's pretty standard in the industry
16 to protect that coating when it's in the ditch.

17 Q And, if I understand your testimony, you wouldn't want
18 to have dents or imperfections in all these measures
19 you've taken so you can avoid external corrosion so
20 you're going to put it in to try to avoid that, is that
21 right?

22 A Correct, because dents, if you do your calculations,
23 dents is a weaker spot in the pipeline. Should there be
24 corrosion in that dent then it magnifies the magnitude

1 of that corrosion. Therefore, we specify in our
2 construction specifications, we run a caliper pig. We'd
3 run that after the hydrostatic test because your
4 hydrostatic test is your worst case on the pipeline to
5 get dents because your line's filled with water, and if
6 there's something in there you might have a point source
7 with the water. So you run this caliper pig and it will
8 detect any dent that's out of code and then the
9 contractor would have to go back in, identify it,
10 replace that.

11 Q Is it said that a caliper pig will detect out of round?

12 A Out of round basically, yes.

13 Q What does that mean?

14 A The pipe's round but there's like a two percent
15 deviation, if you can imagine that somewhere, so it's
16 not so much out of round in a long area. It's more like
17 out of round in an isolated area where it was dented,
18 like that. It'll pick up something like that.

19 Q So the caliper pig will identify any spot where it's not
20 round --

21 A Yes.

22 Q And where there are dents --

23 A Yes.

24 Q So you can take appropriate measures?

1 A Yes.

2 Q Can you say, Mark, what an intelligent pig is used for
3 or detects?

4 A A smart pig? Yeah. You hear it in different ways,
5 smart pig, intelligent pig. If we go back, a caliper
6 pig's a semi-intelligent pig. It has some intelligence
7 because it picks up the dent and you can calibrate where
8 it's at. What you hear of intelligent pig and smart
9 pig, unfortunately they're not as smart as some people
10 might think. Because an intelligent pig, when it's run,
11 is basically run to identify any wall loss in the pipe.
12 And the normal thing that causes wall loss in the pipe
13 -- And wall thickness loss meaning if you've got wall
14 thickness, and your pipe's so thick, and you're looking
15 for a deviation in that wall thickness, the intelligent
16 pig will pick up the deviation. And normally the
17 deviation it picks up is corrosion, internal or external
18 corrosion. It's not real good at getting some other
19 pipe defects, laminations, gouges, things like that. Of
20 course gouges, and things like that, when you put them
21 in you can visually inspect them. That's why we have a
22 strict inspection at the mill and whatever. But it's
23 primarily used to detect wall loss within the pipe
24 primarily caused by corrosion.

1 Q And in this system being proposed and discussed here
2 today, you're also proposing to use automatic valves
3 instead of manual valves, automatic closing valves, is
4 that right?

5 A Yes, in our -- Normally we would probably not, on a
6 system like this, propose either auto close valves or
7 remote valves. After evaluating the project, after
8 evaluating some of the concerns and some of the comments
9 and the system, our belief is that our commitment was to
10 install auto close valves at our main line fab locations
11 on the 20 inch pipeline on this system.

12 Q And you believe that that assures public and health
13 safety with an adequate margin of confidence?

14 A Auto close valves, or remote control valves, don't alone
15 assure the increased safety to the public on that
16 pipeline system.

17 Q What does?

18 A This combination of coating, material, cathodic
19 protection, patrols, proper maintenance procedures.
20 That whole combination provides it. Proper emergency
21 response plans. Proper operating people at gas control
22 that understand what the system does. And the reason
23 that I, I don't know if you want to ask me or if I want
24 to say it, why I don't think auto close valves

1 necessarily increase the public safety at one particular
2 moment should there be a failure, the reason auto closed
3 valves are discussed, the reason valves are placed along
4 the pipeline, according to regulation, is that you want
5 valves at certain locations for a couple of reasons.
6 Should there be a maintenance activity and you want to
7 get in and isolate that pipeline, you want to shut the
8 pipeline off between two valves, vent the gas to
9 atmosphere in a controlled manner, and get in there and
10 work on your pipeline. And so, regulation has it that,
11 dependant on the population center, valves are spaced so
12 far apart. And those valves are also there in an
13 emergency. If you have a release of gas in an emergency
14 situation either due to a rupture or a leak, or
15 whatever, you can go to those areas and you can shut
16 those valves. Our belief is, or a lot of the industry
17 belief and, yet, people going back and forth on that,
18 and our position is that, and it's my pre-filed
19 testimony, or the recent one is that should you have a
20 rupture you have a sudden release of energy from that
21 pipe at that moment, even auto close valves, and I think
22 we talked about it earlier, Greg mentioned it, they
23 close almost instantaneously. But even when the auto
24 close valves close, even if it's two or three minutes,

1 the initial energy is released from that pipeline at
2 that point. What it does do is it does prevent more gas
3 feeding that ruptured area should there be an ignition
4 or a fire. It also, for a convenience, someone doesn't
5 have to physically go to the location and shut the
6 valves. But it doesn't prevent that rupture. What
7 prevents that rupture is the proper installation, the
8 proper material, the proper maintenance procedures, and
9 the proper patrols, and the Dig-Safe issues, and that
10 type of thing. That is what focuses on the safety that
11 prevents that rupture.

12 Q Do you have any further testimony you'd like to offer at
13 this time?

14 A No, not right now. Thank you.

15 **DIRECT EXAMINATION OF MR. KLEINHENZ BY ATTORNEY SMITH:**

16 Q Mr. Kleinhenz, you are already sworn and under oath.
17 Would you state your full name and your business address
18 for the record please?

19 A Yes. My name is Eric Kleinhenz and I reside in Houston,
20 Texas at the El Paso Energy office.

21 Q And I'm going to show you an exhibit marked A12 for
22 identification purposes. Actually, I'm going to turn to
23 page 22 and ask you if you recognize that?

24 A Yes.

1 Q What is it?

2 A That is my direct pre-filed testimony of August, I'm
3 sorry, May of 2000.

4 Q And did you prepare that or was it prepared under your
5 direction?

6 A Yes.

7 Q And at the time that you caused it to be prepared, was
8 it true and accurate to the best of your knowledge and
9 belief?

10 A Yes, it was.

11 Q And is it still today?

12 A Yes.

13 Q Therefore, do you wish to adopt it as your testimony
14 here today?

15 A Yes, I would.

16 Q Now, what are your responsibilities, briefly, for the
17 company?

18 A For this particular project I am the design engineer, so
19 I would be assisting Mark with the design of the
20 pipeline as well as the construction mitigation that
21 would also be included with the project.

22 Q How long have you worked for Tennessee?

23 A Fourteen years.

24 Q And very briefly, what is your educational background

1 and experience as it would relate to this project?

2 A I have a B.S. in civil engineering from Texas A&M and
3 I'm also a registered professional engineer in the State
4 of Texas, as well as a registered environmental manager.

5 Q And are you familiar with the draft permit conditions
6 which were prepared by the Public Utilities Commission
7 staff?

8 A Yes, I was.

9 Q And you're familiar with the proposal that your company
10 made in the application for the location of what I refer
11 to as certain classes of pipe along the route of this
12 replacement project?

13 A That is correct.

14 Q Can you tell us whether what you've proposed, as the
15 application sits before us here today, conforms to the
16 recommendations of the staff at the Public Utilities
17 Commission with respect to the location of classes of
18 pipe?

19 A Yes, it does.

20 Q Completely?

21 A Completely.

22 Q And does that mean, therefore, that you have proposed
23 to, in some cases, exceed in any way more typical
24 construction?

1 A Yes. And, in particular, the three classes of pipe
2 design typically encountered in an area like New
3 Hampshire would be a Class I, Class II and Class III
4 pipe. A Class III would be your most, I guess you could
5 say, your highest level of safety factor applied to it,
6 and then Class I would be, obviously, your lower safety
7 factor. First and foremost, I would say probably 40 to
8 50 percent of the route actually fell into a Class I
9 criteria. What we had decided to do, one of the
10 recommendations the PUC had in our initial meeting with
11 them, was that we would install all Class II pipe, even
12 in a Class I area. And so, that was the criteria we
13 established.

14 The other criteria that they requested was that in
15 any locations where the pipeline was within 40 feet of
16 the 20 inch pipeline that we would install Class III
17 pipe. We agreed to that. They also requested that for
18 road crossings and for major streams, and we
19 acknowledged that. They also requested concrete coated
20 pipe at all road crossings, and we agreed to those as
21 well. And those were all criteria that are over and
22 beyond the standards of DOT.

23 Q And you're aware of the fact that your proposal is to
24 use not manual but automatic closing valves and that the

1 staff of the Public Utilities Commission has recommended
2 utilization in this project of remote control valves?

3 A That is correct.

4 Q And do you believe that your proposal is superior?

5 A Yes, I do.

6 Q Could you explain to the Committee why you think so?

7 A The main point with valves, and the whole issue behind
8 the valves, was the response time to isolate the
9 pipeline, and an auto close valve provides a superior
10 response time than the remote valve. And the main
11 reason for that is the remote valve requires a field
12 verification to which pipe it would actually be that was
13 ruptured, whereas an auto close valve is activated off
14 the pipe itself, the pressure loss. So without any
15 human verification or any call that would be required,
16 the auto close valve, immediately upon detecting the
17 pressure loss, would close the valve.

18 Q Does the design of this system, that is there are two
19 pipelines now and there'll be two pipelines running
20 north/south when you complete the upgrade, does that
21 have anything to do with the choice of valves as you've
22 proposed it here?

23 A Yes, it does.

24 Q What?

1 A The main reason is the two lines operate in common. And
2 what I mean by that is at a meter station if we had gas
3 delivery, both lines can service that particular
4 customer. And because of that, if there were a failure,
5 the pipe, it would actually show a loss in pressure on
6 both pipes. And because of that -- In a scenario where
7 you're in the dead of winter and there was a rupture and
8 you had remote valves, you would not want to shut the
9 entire northern New Hampshire off of gas supply guessing
10 which pipeline had ruptured. And obviously, the reason
11 we operate in a common system is to provide more
12 reliability to the customers. Any time there is a
13 problem with either one of the pipelines we could
14 obviously continue to service the customers for that
15 time period.

16 Q And next, you're aware of the fact that there is a
17 recommendation from the staff of the Public Utilities
18 Commission to employ what's referred to sometimes as an
19 intelligent pig on this project at the outset, before it
20 goes in service, I think, or early in the operation of
21 the project, and you do not propose to do that but only
22 to use a caliper pig. Can you explain why you propose
23 to do it the way you do?

24 A Right. An intelligent pig, again, its primary reason

1 for its usage is to detect corrosion. And up until the
2 point that the pipe is being installed we have had
3 numerous levels to check the integrity of the pipe, the
4 last of which is the hydrostatic test. So while putting
5 the pipe into service we have established visual
6 inspections of the pipe that would check for any
7 anomalies in the coatings. We've had mill inspections
8 that actually detect the components of the pipe, so
9 there's obviously no opportunity yet to have any
10 corrosion whatsoever. Baseline data, for our use, would
11 be of little or no use. And, as a matter of fact, what
12 you do with the baseline, in most cases, you're
13 establishing a tolerance or tolerable limit to what
14 could be allowed. So if there was an intelligent pig
15 run and you did see a few little blips on the report,
16 and that would show up later as you ran the intelligent
17 pig seven years from now, you could basically say,
18 "Well, that's okay because that was within our tolerable
19 limits."

20 So what we're actually doing by not having a
21 baseline is we're taking a zero tolerance baseline that,
22 when we ran the intelligent pig at a predetermined time
23 later on, we would be able to assess as we would any
24 other anomaly. And at that time we would determine,

1 based on the criteria, if it would be deemed to be
2 excavated or just a visual determination from the
3 report.

4 Q Is there anything further you'd like to offer at this
5 point?

6 A No, I would not.

7 **DIRECT EXAMINATION OF MR. KRETSCHMER BY ATTORNEY SMITH:**

8 Q And the next witness, Mr. Kretschmer, you have also
9 already been sworn. So, I guess you have that
10 microphone there. You can use that. Would you please
11 state, for the record, your full name and your business
12 address?

13 A My name is Paul Kretschmer. I work for Pre Seis
14 Incorporated and we're located at 1480 Elm Street in
15 Manchester, New Hampshire.

16 Q Can you spell the name of your company?

17 A It's capital P-R-E, capital S-E-I-S.

18 Q And I'm going to show you a document marked Exhibit A70
19 for identification purposes and ask you if you recognize
20 it?

21 A Yes, that's my direct pre-filed testimony.

22 Q And do you recall, approximately, when you prepared
23 that?

24 A That was approximately a week, week and a half ago. I

1 don't have the date.

2 Q And was it true and accurate to the best of your
3 knowledge and belief at the time that you caused it to
4 be prepared?

5 A Yes, it was.

6 Q And is it still today?

7 A Yes, it is.

8 Q And therefore, do you wish to adopt it as your testimony
9 at this hearing today?

10 A Yes, I do.

11 Q Now, very briefly, what business are you in?

12 A We are blasting consultants. We do blast vibration
13 analysis, pre-blast surveys and post-blast surveys.

14 Q And you, personally, perform that work?

15 A Yes, I do.

16 Q And how much experience do you have in performing that
17 type of work?

18 A My basic is 30 years in the construction industry as a
19 housing and commercial building builder, and the last
20 ten years specifically in blasting doing pre-blast
21 surveys and blast analysis for large contractors, two
22 years specifically doing blast consulting.

23 Q And have you worked on projects which would bear any
24 similarities to this one?

1 A Yes. We've done work with Delta Gulf which is a
2 contractor for Tennessee Gas and has done some pipelines
3 in this area.

4 Q And you know that there have been certain
5 recommendations made by the consultant for the Public
6 Counsel, Haley & Aldridge?

7 A Yes.

8 Q And I'd like to discuss with you, just briefly, some of
9 the parameters that you think are important in order to
10 assure that the blasting will be conducted properly and
11 safely on this project. One of the parameters that's
12 addressed in that testimony is something referred to as
13 ground vibration limitations?

14 A Yes.

15 Q Would you explain for us what that is?

16 A Well, ground vibration, you want to monitor ground
17 vibration outside of the blast area to ensure that
18 there's no damage to structures or utilities outside of
19 the actual blast area.

20 Q And is a limit proposed in this application for that
21 kind of vibration?

22 A Tennessee Gas proposes a 4.0 inch per second vibration
23 limitation on the existing pipe in the pipeline.

24 Q And that's an expression of a particle velocity, is that

1 right?

2 A Yes, 4.0 inches per second is a peak particle velocity
3 that's monitored and measured on a seismograph.

4 Q And do you have any knowledge you can provide to the
5 Committee about what sort of peak particle velocity in
6 this kind of a project, where we're operating about ten
7 feet away from an existing, active pipeline, that
8 pipeline could tolerate safely?

9 A Pipelines, in general, gas pipelines, and I've seen
10 numerous studies on them, can tolerate blast vibration
11 in the order of ten to 12 inches per second with no
12 perceived damage. There's been numerous times that
13 those levels have been monitored and the pipe checked
14 immediately after with no damage. The four inch per
15 second that Tennessee Gas is suggesting and specifying
16 for their existing pipeline is extremely conservative on
17 the order of two to three times.

18 Q Now you're talking about particle velocity. What do you
19 mean when you describe it as an elastic kind of effect?

20 A Well, blasting, obviously, breaks rock. Outside of a
21 certain distance away from that actual perforation of
22 the ground and breaking of the ground there is an energy
23 that is transmitted that's transmitted as an elastic
24 motion in the ground, and four inches per second is the

1 level that we're going to stay by. That's not to say
2 that the ground is actually moving four inches. It is
3 moving for a very short period of time. During that
4 duration that is the peak velocity during a blast, and
5 that's what we're monitoring. All the blast data and
6 the studies that support the blasting industry levels
7 that have been established are based on peak particle
8 velocity and ground vibration and measured in that way.

9 Q So if it were a purely elastic vibration, then anything
10 that moved in that way would move and return to where it
11 was before the event?

12 A Yes. There'll be an actual displacement of the ground,
13 a very minor displacement. I believe, at very high
14 frequencies, four inches per second is about eight
15 thousands of an inch in actual measurement of the ground
16 displacement. But that does return back to status as it
17 was previous.

18 Q And it's eight thousands of an inch instead of four
19 inches because any particles would have this velocity
20 for a much shorter period of time than one second?

21 A The four inch per second is how far that particle would
22 move in one second. It is going to be effected for a
23 very short duration, only milliseconds during a shot.

24 Q And are you proposing, or is the Applicant proposing, to

1 measure ground vibration limitations to comply with this
2 standard of four inches per second, do you know?

3 A Yes. In all the previous projects I've been involved
4 with we have measured. If there was an existing pipe,
5 that vibration has been monitored at the pipeline.

6 Q And how is that done?

7 A That's done with a seismograph. My company uses a
8 geophone with a very long cord on it, just to put our
9 instrument out of harms way. But that is monitored with
10 a geophone and a seismograph.

11 Q Now if we stayed within this standard of four inches per
12 second as we've proposed, do you have any way of
13 comparing this vibration at a hundred or 200 feet away
14 to anything we'd all commonly experience?

15 A Something I use in public demonstrations is basically,
16 four inches per second has been measured on the side of
17 slamming wooden sliding glass door on the wall
18 immediately adjacent to it. So basically if you wanted
19 to suggest something like that, walk in and slam your
20 sliding glass door. That wall immediately adjacent
21 would have a four inch per second reading or stress
22 level on it.

23 Q This is at the point or origin or nearby?

24 A That would be at that point, yes.

1 Q How about a hundred or 200 feet away? Do you have
2 anything you can compare that to?

3 A Four inch per -- Well, glass vibration degrades the
4 further away that it gets. If your four inch per second
5 on a pipeline is in very close proximity to the blast,
6 as you move away from that that blast vibration will
7 degrade very rapidly. At a hundred to 200 feet out
8 you'd be looking at someone closing a door or walking
9 heavily across the floor.

10 Q Now, there's mention in this part of the record of
11 ground heave and measuring ground heave. What is that?

12
13 A My understanding is measuring ground heave is the actual
14 measurement and displacement of the ground in the
15 vicinity of the existing pipe. If that were to be
16 displaced, you would measure the actual displacement.
17 In the specification Tennessee Gas has, at a four inch
18 per second elastic motion allowable at the pipe, it
19 means that there probably would be no ground heave. It
20 doesn't make sense that if you're measuring elastic
21 ground movement that the ground would be deformed.

22 Q That's because, as I understand your testimony, if it's
23 elastic it would return to where it was?

24 A Yes.

1 Q If it were inelastic it would be displaced, as you put
2 it, and it would stay in a different place than it was
3 when the event was initiated?

4 A Yes. And that's what I would consider would be to heave
5 the ground or ground heave.

6 Q And if you were measuring ground heave, how would you do
7 that?

8 A Personally, I'd take some elevation shots prior to the
9 blast and then immediately afterwards take those shots
10 again and determine if there's been any movement. It
11 can also be done on undisturbed ground in the area of
12 the pipe. Immediately after the blast, if it was
13 determined by looking that there may be some problems,
14 you could step away from the pipe a few feet and get a
15 measurement there and then measure over on the pipe.
16 And you would consider that difference that it may be,
17 in fact, some sort of deformation of the ground
18 underneath.

19 Q When you say "taking shots," are you referring to
20 locating stakes and then surveying them before and
21 afterwards?

22 A Basically setting a benchmark, is what we'd call it, and
23 that would be any moveable object and taking an
24 elevation from one point and then comparing that to the

1 pipeline.

2 Q Well, do I understand that the blasting, if any is
3 required, is going to be in the ground about ten feet
4 away from the operating pipeline, is that right?

5 A Yes, that's what I'm told.

6 Q And so, the vibratory motion we're talking about would
7 tend to move horizontally through the ground toward the
8 operating pipeline, is that right?

9 A It will move throughout the ground, yes.

10 Q But when you measure ground heave, just so we're clear,
11 you're talking about putting a stake, or something of
12 that sort, over the top of the existing pipeline and
13 then surveying to see whether the elevation of that
14 stake changes, or marker on that stake?

15 A Yes. It could be done that way.

16 Q Alright. And that's what you mean by displacement?

17 A It could be done that way, yes.

18 Q Is there any other way that you would think of to do it?

19 A You could just measure the ground. You wouldn't have to
20 place the stake.

21 Q Do you think there's any need to measure ground heave on
22 this project if it's conducted the way it's proposed?

23 A As I've said, I've done some other projects with
24 Tennessee Gas. There's been no reason to monitor it

1 before. There was blasting in very close proximity to
2 existing pipes and there wasn't an issue with ground
3 heave, so I really don't see that there would be an
4 issue now.

5 Q Has the topic of air blast over-pressure also come up in
6 the technical reports of the expert for Public Counsel?

7 A Yes, as measured at the closest structures.

8 Q And do you know whether the Applicant has proposed a
9 standard for air blast over-pressure?

10 A The Applicant, at the beginning, did not. The peer
11 review by Haley & Aldridge did come back with air blast
12 over- pressures and vibration levels to be maintained at
13 structures very close to the blast, the closest
14 structures not in control of the blaster. And they had
15 made a suggestion to follow RI 8507 for ground borne
16 vibration and RI 80485, which are reported
17 investigations by United States Bureau of Mines that set
18 those specific limitations. They suggested that we
19 follow those and Tennessee Gas has said that they would.

20 Q I'd like to show you three documents, just for the
21 record. The first is Exhibit A54 for identification
22 purposes only.

23 A Yes. That's a Tennessee Gas Line Pipeline engineering
24 standard for blasting their high pressured pipelines.

1 Q Are you familiar with that standard?

2 A Yes, I am.

3 Q And does it conform with your testimony here today?

4 A Yes, it does.

5 Q I'll show you an exhibit marked Exhibit 55 for
6 identification purposes. Do you recognize that?

7 A Yes. That is the construction specification for land
8 pipeline construction. It's classification LP-6.

9 Q Whose specification is that?

10 A That's El Paso Energy's specification.

11 Q And are you familiar with this?

12 A Yes, I am.

13 Q And is the proposal that's before the Committee
14 consistent with this standard?

15 A Yes, it is.

16 Q And one more document marked Exhibit A56 for
17 identification purposes. Do you recognize that?

18 A Yes. That is a construction specification for land
19 pipeline construction, typical blasting plan example
20 only, specification LP-7. And I specifically say
21 "example only" because there are a number of items in
22 that that I would not suggest doing in this area.

23 Q But, as far as you know, this is going to be applied in
24 such a way that it will be consistent with your

1 testimony here today?

2 A The example is an example of a blasting plan, and every
3 blaster will need to produce one of those to Tennessee
4 Gas. The specific types of blasting and types of
5 materials that are being used are not necessarily what
6 needs to be there. That is just an example of a plan
7 and a kind of boilerplate to be followed, and that would
8 be consistent. If that boilerplate were to be
9 submitted, I'm sure that Tennessee would review and then
10 approve that.

11 Q And the plan would then be adapted to this project?

12 A Adapted to this project, absolutely.

13 Q Now, another issue that has arisen is the question of
14 whether pre-imposed blast surveys of structures and
15 water wells would be conducted at a distance of more
16 than 150 feet from the blast site. And then two other
17 distances have been suggested, as you may know, 200 or
18 300 feet. Can you describe what the significance is of
19 those three distances, 150, 200 and 300 feet, for the
20 Committee?

21 A A hundred feet for pre-blast surveys is noted in New
22 Hampshire regulation SAFE-16 that specifies that any
23 structure not under control of the blaster will be
24 offered a pre-blast survey. And that is a state

1 regulation. The 200 foot number that came up is
2 Tennessee Gas' suggestion and their submittal that they
3 would do those pre-blast surveys and necessary post-
4 blast surveys within 200 feet. The 300 feet was a
5 suggestion by Haley & Aldridge prior to Tennessee Gas
6 adopting RI 8507 and RI 80485, and that was suggested by
7 them. My opinion is that the 200 foot pre-blast survey
8 is more than enough, specifically in keeping the blast
9 vibration at four inches per second, in a very close
10 proximity to the blast.

11 Q Now you mention in your testimony two standards. Could
12 you just define for everyone, just briefly, what those
13 are and why you think that determines the question of
14 200 feet being an adequate survey range?

15 A Well, RI 80485 is, both of these are, from the United
16 States Bureau of Mines' Report of Investigations done in
17 the 80's. And 80485 sets limitations on air blast over-
18 pressures at structures. RI 8507 sets limits of
19 vibration at those close structures in relationship to
20 their associated frequencies. These -- If we do basic
21 calculations using the four inch per second at the
22 pipeline, which is ten to 20 feet away, and then do the
23 regressions out to 100 to 200 feet, we're talking about
24 very insignificant vibrations at those distances. In

1 order to cause threshold damage it's been shown that a
2 minimum of two inches per second above 40 hertz and then
3 regressing down to a half an inch per second at below 10
4 hertz may cause, may cause, threshold damage, threshold
5 damage being practically invisible, certainly not to the
6 point that you're going to break foundations or cause
7 huge cracks in plaster walls or ceilings. These are
8 based on plaster walls, the weakest component of the
9 building. It's been noted also in 8507, and in some
10 studies that have been done after that, that in order to
11 induce blast damages, four inches per second and above
12 had to be attained before anything was hurt. So these
13 -- By maintaining the four inches per second at the
14 pipeline, doing the analysis, we're going to be well
15 under the requisite 80485 air blast over-pressure and
16 8507's vibration levels. So that should preclude us
17 going out to that 300 feet.

18 Q So at up to 200 feet, you don't need to go beyond 200
19 feet because you'd be well under any standard that could
20 cause any kind of problem?

21 A At the 200 feet you're basically -- It's public
22 relations and to go out and explain to people that there
23 actually really are cracks within your homes even though
24 they're practically new. Old homes, new homes, every

1 home has some cracks. I don't know if everybody walks
2 out of the door today in the front and looks down to the
3 right as you go up, some huge cracks in the foundation
4 here. That occurs. That's nothing out of the ordinary.
5 But it's a good idea to go out to people that are going
6 to experience that blast vibration and explain that
7 those things are within the homes, that they're not
8 structurally a problem, that their home isn't going to
9 fall down and is not falling down. So, it is a public
10 relations tool and a good idea to use, and then you can
11 document those items should anybody have a question.

12 ATTORNEY SMITH: Alright. Thank you.
13 I don't believe we have any further questions of the
14 panel at this point.

15 CHAIR: Thank you. Public
16 Counsel?

17 ATTORNEY WAGELING: If I could, I would
18 like to just direct the questions to the panel generally
19 and then whoever chooses to answer it could do so. And
20 I don't know if, for the record, they should identify
21 themselves before doing so. That would be fine.

22 ATTORNEY SMITH: That would be helpful,
23 and if I could explain what the brief conference here
24 was about. As we've said before is there are other

1 people here in the audience who may be able to help with
2 a particular issue, so we'll try to direct a question
3 back to them if it seems they could handle it better.

4 ATTORNEY WAGELING: And I didn't realize
5 we were going to have two separate panels so I apologize
6 if some of my questions go beyond this panel, and I can
7 redirect them if need be.

8 **CROSS-EXAMINATION OF PANEL BY ATTORNEY WAGELING:**

9 Q Mr. Hamarich, specifically, I know that you just
10 reviewed a variety of causes for failure of pipelines
11 and I think that you attempted to direct it away from
12 the New Mexico tragedy, and I understand that. But what
13 I'd like to ask you are questions comparing the various
14 precautions you're going to take with this pipeline as
15 compared with, for instance, the New Mexico pipeline.
16 You did explain that the variety of reasons that you
17 could have a failure would include outside forces such
18 as earthquakes, third party difficulties, corrosion,
19 material, construction defects, and then human error.

20 I think, for argument sake, let's move past the
21 outside forces, for instance, earthquakes, because
22 obviously we can't predict the future. Third party
23 difficulties, what, if anything, can be done for the
24 Tennessee Gas pipeline that you're proposing to prevent

1 an interference by a third party that wasn't done in New
2 Mexico?

3 A (By Mr. Hamarich): First off, I'll
4 address the third party but I don't believe, I don't
5 know if there was any relation to third party in New
6 Mexico, so I want to clarify that. But I will address
7 this. We've got an established corridor here. We've
8 got marker posts. We've got a right-of-way identified.
9 We maintain a right-of-way. We patrol a right-of-way.
10 We're members of the Dig-Safe. We send out notices, as
11 Greg said, on a yearly basis to all landowners, all
12 towns. We meet, at least we try once a year to meet,
13 with the local officials, the emergency response teams,
14 to let them know what our, as we discussed earlier,
15 emergency plans and what's going on there in general.
16 So because we're routing the pipeline in the existing
17 corridor and we're putting the new pipeline in this same
18 corridor, and for 99 percent of part of it in the same
19 alignment as the eight inch line, there'll be a new
20 corridor. It will be cleared. Trees and things will be
21 mowed and some extra trees removed so there'll be a
22 well-defined corridor after the construction.

23 So if we maintain the current mode of operation as
24 we have in New Hampshire, where we've had no incident

1 from third party, and keep reinforcing those procedures
2 and that contact with the community, that's how we will
3 maintain the prevention of any third party damage on
4 this corridor.

5 Q Was that done in New Mexico?

6 A Those procedures that I'm talking about are procedures
7 that are federally regulated procedures. All natural
8 gas transportation pipelines are subject to those
9 procedures in regards to oversight, patrol, marking the
10 pipeline, one-call systems and whatnot. All natural gas
11 transportation companies are regulated and must comply
12 with that. And specifically in New Hampshire we've been
13 doing that on the eight inch and the 12 inch. We will
14 continue to do that with the eight inch and the 20 inch,
15 and that's one of the beautiful things about putting the
16 20 inch in the same location. The corridor's
17 established. We've been protecting it for 50 years.
18 We'll continue to protect that corridor.

19 Q I understand that there are rules and regulations that
20 you are required to comply with but was that done in New
21 Mexico?

22 A Specifically let's go back to what was what done again?
23 Was the pipeline patrolled? Was the pipeline --

24 Q All the things you've discussed that you're going to do

1 in this pipeline as it relates to the third party
2 concerns, Dig-Safe, and you just have reiterated them
3 all.

4 A Yeah, I can't specify exactly in New Mexico. I can say
5 all natural gas transportation systems are required to
6 comply with that. Remember, patrols are based on, I can
7 say, for instance, patrols are based on population
8 density, so the regularity of patrols are based on
9 population density. If your pipeline's in the desert
10 and it's a Class I location and there's no housing in
11 the area, your patrols are at a less frequent time.
12 Your cathodic protection surveys are at a less frequent
13 time. Your marker posts, you still have to identify the
14 corridor but you don't have as many roads and access to
15 the public to mark it, understanding, in fact, that New
16 Mexico was near a bridge, above ground aerial, so the
17 pipe was marked there. So, in this case, we will comply
18 with that requirement on this project.

19 Q One of the other issues you discussed was the corrosion,
20 both internally and externally, and I know that you went
21 through a bit of detail in explaining the difference
22 relative to impurities and liquids that might be found
23 within a pipeline, possibly in other locations as
24 compared to New Hampshire. Were those same -- Let me

1 rephrase it. What's the difference between the gas
2 that's going to be traveling up the pipeline into New
3 Hampshire as compared with the gas that was traveling
4 through the pipeline in New Mexico?

5 A The gas going through New Hampshire is dry gas. It is
6 not near a production area. The pipeline is not
7 configured in a manner that liquids could possibly
8 collect in the pipeline. As I stated earlier, this
9 pipeline will have a continuous flow during operation.
10 It will be pigable. It has no indications of any wet
11 gas or impurities entering the system.

12 Q Did those concerns exist in New Mexico, both the design
13 criteria, or configuration, and the impurities?

14 A My understanding is that there was evidence of internal
15 corrosion. How that was caused? Like I said earlier,
16 usually internal corrosion's attributed to three
17 factors: liquids in the gas, impurities in the gas, and
18 a configuration in the pipeline where the gas is not
19 either pigged out of the line, because the line is not
20 pigable, or the flow of the line, there's a natural low
21 spot and the gas cannot sweep the pipeline.

22 Q I might have misheard you, and correct me if I'm wrong,
23 you had discussed that there was no evidence of internal
24 corrosion in New Hampshire and I thought you only

1 specified the eight inch pipe?

2 A No, I was talking about the eight inch -- When I talk of
3 New Hampshire I'm talking about the eight inch and the
4 12 inch system.

5 Q So it's your testimony that, as of today, there isn't
6 any evidence of corrosion in either of the pipelines?

7 A Yes, based on the information we have and the operating
8 history, yes.

9 Q And is there any evidence of dead spots in either of the
10 pipes?

11 A No, not at this -- No.

12 Q You sound like you're hesitating on this one?

13 A Well, as far as I know. Dead spots, it's hard to define
14 but, no.

15 Q I think you just mentioned this again but, again, I
16 apologize if I'm misstating it. Is there a difference
17 between the storage systems involved in the New
18 Hampshire gas that's going to be traveling up from
19 Massachusetts as compared with New Mexico?

20 A What I stated was that the way liquids can enter the
21 pipeline is either through production or storage areas.
22 And what production areas are are wells, whether they're
23 offshore or on onshore, and production areas where the
24 gas comes out of the ground. There are separation

1 processes but liquids can enter the stream there. And
2 what storage facilities I'm specifically referring to is
3 underground, let me clarify, that's underground storage
4 facilities where the gas is injected back in the ground
5 and it basically becomes like a production area. The
6 gas comes back out of the ground.

7 Q And is the receipt of the gas into New Hampshire from a
8 different designed storage system or process than what
9 was used in New Mexico near where the explosion
10 occurred?

11 A The closest storage that gas could possibly reach New
12 Hampshire, and it's very dependent on how the system
13 works, is in eastern Pennsylvania, sorry, western
14 Pennsylvania. And by the time the gas reaches the
15 points in New Hampshire it goes through several
16 compressor stations and areas where there is filter
17 separation on the gas and there is an ability to drop
18 any liquids out, should there be any liquids. It's also
19 transported on pipelines that are pigable downstream of
20 storage should there be any liquids detected.

21 Q Is that different from the gas that was received at the
22 location where the explosion occurred in New Mexico?

23 A I don't know what the gas exactly was. I don't know
24 what the gas was at the location. I can only address

1 the production facilities and the wells in general.

2 Q In terms of the, again, just continuing to compare the
3 New Mexico situation with what would be proposed for New
4 Hampshire, the external inspections, the fusion bond
5 coating, the mill, the upfront inspections, the field
6 joint inspections and the coating that would go on
7 there, the cathodic protection along the line,
8 hydrostatic testing, was all of that done in New Mexico?

9 A The pipeline in New Mexico was built in 1950. The
10 pipeline that will be built here will be in the year
11 2000. Those specific technologies that you're
12 mentioning, the type of coating, the type of steel, the
13 technology has changed and there is better technology
14 for the project we're using here. Again, my
15 understanding of New Mexico, as I read it on the
16 Internet, is it was published that that line was not
17 hydrostatically tested. And that this line will be
18 hydrostatically tested and all the other things we
19 talked about, the caliper pig and whatnot.

20 Q If we could talk about the intelligent or smart pig for
21 a minute. I also read that Mr. Marini over at the PUC
22 was suggesting that the smart pig be utilized in this
23 project. I'm somewhat playing devil's advocate here.
24 Why would he be recommending -- Why would he be

1 recommending something that is of no use to the
2 industry?

3 A Well, I've never had -- Do you want to answer that? I'd
4 like to know. But I'd like to say, bluntly, is we'd
5 like to know also.

6 A (By Mr. Kleinhenz): The intelligent pig is a valuable
7 device in detecting corrosion. It's just the time frame
8 when it becomes valuable because again, number one, you
9 have to have the conditions that exist to experience
10 corrosion and then, secondly, you have to have the time
11 frame being able to elapse to establish corrosion. We
12 have pipe in the ground that's been there for 50 years
13 and it shows no sign of corrosion whatsoever. And
14 during this time frame, we've been expanding and getting
15 better and better technology. And with the new coatings
16 that we have, with all the upfront inspections that are
17 done from the mill all the way to the field inspection,
18 we don't have near the concerns with the intelligent
19 pig, especially on the new pipeline. So, when people
20 mention intelligent pigging, the biggest effort is to
21 drive the industry to intelligent pig a lot of the older
22 pipelines. And currently we have a program that is
23 going through and doing the intelligent pigging on the
24 older pipelines.

1 Q Would it be fair to say that it could be something
2 implemented four years down the road, that is, in terms
3 of the certificate process you're going through, instead
4 of requiring an intelligent pig be used today that you
5 would agree to use it at some appropriate time frame
6 down the road to detect the corrosion?

7 A Yeah, we would like -- In terms of a specified interval,
8 we wouldn't want to be able to set that because what we
9 would like to be able to do is base it on when we start
10 doing detailed corrosion surveys. We're able to detect
11 the level of cathodic protection that is currently on
12 the pipeline. When we're establishing proper cathodic
13 protection, we're not going to be experiencing the
14 corrosion that we expect to be present. The other
15 thing, the whole time, is we're also monitoring our gas
16 stream in terms of the actual makeup of our gas, in
17 terms of the water quality content, all the parameters
18 in gas. So we have a good feel today for what gas is
19 coming through here. So it would be other factors that
20 we would take into consideration prior to saying, "We
21 want to have an intelligent pig in four years or five
22 years."

23 Q Understanding all of that, what if those procedures, for
24 whatever reason, are failing and you assume that because

1 of your test results that there isn't moisture in the
2 path and that cathodic protection testing appears to be
3 going well? Is there any reason to not have another
4 assurance for people of New Hampshire that there isn't
5 any internal corrosion? Based, I think -- Timing is
6 everything based, in part, because of the New Mexico
7 tragedy. Is this a costly thing? Is there some reason
8 that --

9 A Well, obviously, there are costs involved with
10 intelligent pigging, sure. Again, what you're looking
11 at is the value added. There's many things that people
12 advocate that cost millions of dollars that offer no
13 added value. And what we do is we assess if there's
14 some value added. Obviously that, we don't see any
15 additional value added.

16 Q You said that it's the primary use of the intelligent
17 pig to determine corrosion. Are there other benefits to
18 using an intelligent pig?

19 A Not really. They are looking for the big things. An
20 intelligent pig is not good at detecting little things.
21 It will detect the big things, a major corrosion
22 presence. But again, what's the saying, Mark, "It's
23 good at detecting the big things but not so good at
24 detecting the little things." It's not an exact science

1 that it will spit out the actual wall thickness that we
2 have. The technology is not there yet that gives you
3 the bonafide wall thickness loss here. It's more of an
4 interpretation of what could be there. And a lot of
5 times we dig things up that look to be corrosion and
6 there's no corrosion there at all and it may be
7 something else.

8 Q While we're on the subject of corrosion and testing --
9 And I believe that you all made a statement earlier that
10 the pipelines that are in New Hampshire currently do not
11 appear to have any internal corrosion, but we're talking
12 about pipelines that were built in the 1950's and the
13 1980's. Now I know you're discussing current technology
14 available in terms of testing. What have you done to
15 test those pipelines to be able to make the statements
16 that you've made?

17 A (By Mr. Hamarich): Well, as far as strength test, the
18 12 inch pipeline was installed in 1981, '85, '89, and I
19 think the last section might have been '91, or '81, '83.
20 There was four sections in there. The eight inch
21 pipeline that's there was hydrostatically tested in
22 1982. Now that doesn't prove it didn't have -- It
23 proved the strength of the pipeline at that time. So,
24 it was hydrostatically tested in 1982. Again, there's

1 no indications of any liquids or any internal corrosion
2 or, for that matter, any major external corrosion on
3 this pipeline at this point.

4 Q Well, how do you know that?

5 A Based on surveillance reports, and observations when the
6 pipe was cut in spot locations, we've seen no
7 indication. That's all I can testify to is we've seen
8 no indications of any indications of internal corrosion
9 or major external corrosion on our test reports. Every
10 time the pipe's exposed a report's filled out.

11 Q But that's external corrosion, is it not?

12 A That's external corrosion.

13 Q How do you --

14 A And every time the pipe's cut or looked at for
15 maintenance purposes it's looked on the internal
16 corrosion.

17 Q And you can't tell us how often that's been done since
18 it was put into --

19 A I can't tell you exactly, no. But I can tell you that
20 the gas stream is extremely dry and there's no
21 indications of any liquids on this system. And, in
22 fact, Mr. Marini testified to that same fact in the
23 article that you referenced about the pigging. And I
24 believe I'd like to make a statement about Mr. Marini's

1 reason for possibly wanting that pigging is that OPS,
2 Office of Pipeline Safety, has been kicking around a
3 rule making, a proposed rule that would require all
4 pipelines to run a baseline intelligent pig, and I
5 believe that's on existing pipelines. Therefore, any
6 existing pipeline that's been there 10, 15, 20, 30
7 years, you run that pig and then you have the baseline.
8 That's not the situation that we have here on the new
9 line, just for clarification.

10 Q So you haven't done any intelligent pig test on the New
11 Hampshire pipelines?

12 A No, there has not. And one of the reasons there has
13 not, based on the operating condition, the operating
14 history, all the reports, it has not been a high
15 priority on our pipeline. We extensively have been
16 intelligent pigging since 1984. I can't quote the exact
17 number of miles but Tennessee Gas Pipeline has had an
18 extensive intelligent pigging program, one of the
19 leaders in the industry for the past 16 years. The
20 pipelines in New Hampshire, because of the
21 manufacturer's type of steel, because of the coating,
22 because of the operating history, has not been
23 intelligently pigged at this time. It has not been a
24 high priority area where there's been indications of

1 possible failures on the system.

2 Q And what about dead spots, other than an intelligent pig
3 test?

4 A Well, let me just clarify, if there's no liquids in
5 there the dead spots really don't mean anything on that.
6 There has to be a combination, again. There has to be
7 areas where the liquids collect. If there's no liquids
8 there's none to collect.

9 Q The flip argument for that could also exist, couldn't
10 it, if there is no dead spots, even though there's
11 liquid, there possibly wouldn't be a place for it to
12 settle? So, have you tested for dead spots?

13 A I do know that in compressor stations, and I don't think
14 there's these areas in New Hampshire but in some of our
15 compressor stations there has been and there's an
16 ongoing program to check those areas. But I cannot say
17 that there is no dead spots on this system.

18 Q So, based upon my understanding, --

19 A Not that I know of.

20 Q Based upon my understanding of your testimony as it
21 relates to internal corrosion, in part, ways to measure
22 it or determine if there is any, determine dead spots,
23 determine --

24 A No, I didn't say that determined if there's dead spots.

1 Dead spot, let me clarify, dead spots, the liquid has to
2 collect and there has to be impurities in that liquid.
3 And what I'm referring to is that liquid has to be there
4 in order for the internal corrosion to establish.
5 There's been no indication of that on this pipeline
6 system, either the 12 inch or the eight inch, in the 50
7 years of existence.

8 Q I think I understand what you're saying but what I'm
9 trying to lay out is that if you have impurities and/or
10 moisture within the gas, if you don't have the dead
11 spots for the, I'm trying to get the technology down
12 here, the wording here, the design configuration might
13 not allow for a dead spot? If you don't have both of
14 those, would you agree with me that you are less likely
15 to have internal corrosion?

16 A If you don't have wet gas you're not going to have
17 internal corrosion.

18 Q Right.

19 A And that's --

20 Q I understand that. But if you have wet gas and you
21 don't have dead spots are you going to still have
22 internal corrosion?

23 A If you don't have --

24 Q I'm sorry. Let me state it again because I think it was

1 badly worded. If you have impurities in the gas and/or
2 moisture in the gas but you don't have dead spots, will
3 it result in internal corrosion?

4 A I cannot say that it won't. I can only say that this
5 does not have wet gas. But I cannot say that it won't.

6 Q And so, my question, in terms of providing a net of
7 safety for the people of New Hampshire, would you agree
8 with me that it would be prudent for this pipeline to
9 have built-in testing of those issues during the now
10 ongoing history of all the pipelines that you're
11 involved with, not only the one that's going in the
12 ground but the ones that are already in?

13 ATTORNEY SMITH: Can I just say, I'm
14 uncertain what you mean by "built-in testing of all
15 those issues." If you could be -- I don't know what the
16 question's asking.

17 Q Well, let me rephrase it. Would it be appropriate to
18 have mechanisms put into the ECP or the EFSEC
19 certificate that would require Tennessee to implement
20 testing of impurity, moisture and dead spots within the
21 20 inch pipeline that you're proposing?

22 A The gas is tested. There's been no evidence of wet gas.
23 In my opinion it would not be proper to put that into
24 the conditions. I don't really know where you're going

1 with it. I'm a little lost. I don't know if Al can
2 speak to it. Can you introduce Al and maybe Al can
3 help?

4 ATTORNEY SMITH: Sure. Sure. Do you
5 think you can be helpful?

6 MR. RICHARDSON: Well, I hope so.

7 MR. HAMARICH: Well, maybe you want
8 to introduce him.

9 ATTORNEY SMITH: This is Mr. Richardson
10 who had come here to assist with these issues.

11 MR. RICHARDSON: I've been in this
12 business for about 40 years now and --

13 ATTORNEY V. IACOPINO: Mr. Richardson, can I
14 swear you in before we get any testimony from you?

15 MR. RICHARDSON: Sure.

16 **ALBERT RICHARDSON**

17 having been duly sworn by Attorney Iacopino

18 was examined and testified as follows:

19 **DIRECT EXAMINATION BY ATTORNEY SMITH:**

20 Q Mr. Richardson, since we've come to this step, could you
21 just do a couple of steps with us and tell people your
22 name, your background, briefly where you have worked,
23 and your credentials so they understand what you're
24 bringing to this?

1 A My name is Albert Richardson. I'm a registered
2 professional engineer in the States of Texas and
3 Louisiana. I have a Bachelor of Science degree in
4 engineering from the University of Houston and a
5 master's degree in business from the University of
6 Houston also. I've worked for Tennessee Gas Pipeline
7 and subsequent organizations for the last 37 and a half
8 years, and I've retired recently and do a little
9 consulting from time to time. I was asked to come up
10 and try to help out here. In answer to your
11 question with regard to internal corrosion, one of the
12 primary things that a pipeline company does is try to
13 maintain what they call "pipeline quality gas" in their
14 pipelines. They do this through several means. One of
15 them is monitoring the flow of gas into the pipeline
16 both at locations where gas is produced, in the
17 production area, and where gas may come out of the
18 ground from a storage field. Those are the two sources
19 of impurities and liquids that can cause problems in the
20 pipeline. By monitoring these impurities there are
21 several things that are done. One of them is to monitor
22 the moisture level of the gas itself, and there's a
23 specific set of instruments that are used for that. And
24 it's my remembrance that that gas is maintained at a

1 moisture level of no more than seven pounds per million
2 cubic feet which is hopefully dry, very, very dry.
3 That's the intent of the pipeline.

4 There are times when upset conditions occur on
5 producer systems. And when, for one reason or another,
6 an impurity gets into the pipeline, because of that,
7 because of our knowledge of that, we put in what are
8 called "filter separators" at compressor stations.
9 Those filter separators are designed to take out any
10 impurities that get into the pipeline and any liquids
11 that get into the pipeline. The whole idea is to
12 prevent anything in that pipeline from corroding the
13 steel of the pipeline or the compressors, or any of the
14 other facilities that are necessary for the
15 transportation of gas. Those are the two first, the
16 first line of defense. One, making sure, as best you
17 can, that no impurities get into the line. The second
18 one is to take any impurities out that might get into
19 the line. A third one has to do with the design of the
20 pipeline, and that's become a more focused problem in
21 recent years. The concept of preventing low flow areas,
22 that's an area of pipeline where there isn't enough flow
23 in the area to sweep the liquids and impurities on
24 through that area, that's become recognized in recent

1 years in some compressor stations, particularly the
2 older compressor stations.

3 This might have played a part in the New Mexico
4 tragedy. Right now no one knows and we're waiting for
5 the NTSB to finish their evaluation. At that point,
6 apparently, there was a header, which is a typical way
7 of constructing pipelines in that they would header.
8 It's a pipeline that goes across and connects the
9 pipelines that are coming into there. There were three
10 crossings of the pipe, one aerial and two subsurface
11 crossings. And you would normally put a header in there
12 so that if something happened to one of the crossings
13 you could use the other two. And it's hard to pig that
14 sort of structure. It was also a low structure in the
15 system, apparently.

16 And here again, I'm going strictly from the OPS web
17 page that it appears that it was a low place in the
18 system. And I think that in recent years El Paso owned
19 that system and has had diminished flow requirements.
20 And so, maybe the three of them added up to some liquids
21 sitting there for a period of time. In your system up
22 here you're a long ways from supply, you're a long ways
23 from storage areas, and you've gone through a lot of
24 compressor stations and a lot of filters before the gas

1 gets here. It's been monitored numerous times before it
2 gets here to maintain that low level of moisture in the
3 pipeline. And I think the technology of designing and
4 constructing the pipelines improved. And, besides that,
5 you're all using a heck of a lot of gas up here so
6 that's why we're having to build this larger pipe. That
7 larger pipe will be constructed up here.

8 And so, I would say that you've got an extremely
9 low probability of having areas where this moisture, if
10 it existed, would settle out and I think you have an
11 even lower possibility of getting moisture here.

12 CHAIR: Thank you. We're
13 going to need to break for the day, I'm afraid. We're
14 about to lose several members of the Committee. So
15 considering we've now had panel creep and have, not to
16 say anything about you Mr. Richardson but, we have grown
17 here. So I think it's best that we break for the
18 evening and we'll pick it up again in this room at 9:00
19 a.m. tomorrow morning. Mr. Dustin, if you could secure
20 the room this evening, make sure it's locked up and
21 reopened again by eight or 8:15 in the morning.

22 ATTORNEY SMITH: Mr. Chairman?

23 CHAIR: Yes?

24 ATTORNEY SMITH: I think there's one

1 so-called "housekeeping matter," unless I've misplaced
2 this. You asked counsel at the break, mid-day, to see
3 if we could work out an arrangement with respect to that
4 plan, and I believe that all of the counsel of the
5 parties have agreed to the request we made that if we
6 give them a copy of that document they will keep it in
7 their possession at all times. And if they want to just
8 so indicate, we're going to give them a copy to take of
9 that document now.

10 CHAIR: Okay.

11 ATTORNEY GOODMAN: I had a little
12 condition on there.

13 ATTORNEY SMITH: Yes.

14 ATTORNEY GOODMAN: My understanding is
15 that this plan is an internal Tennessee Gas plan and
16 that the emergency response plans that the Town of
17 Londonderry has to review for the specific Town issues
18 will be available to anybody in the police and the fire,
19 and everybody else who wants to comment on that plan.

20 ATTORNEY SMITH: Understood.

21 ATTORNEY GOODMAN: And that this plan
22 also would be, we would be able to show it to our client
23 and show it to anybody who wants to look at it as long
24 as they don't make copies of it. Those were my two

1 understandings.

2 CHAIR: Okay.

3 ATTORNEY ROCHWARG: Yes, good afternoon.
4 I would just like to adopt the comments of Attorney
5 Goodman rather than reiterate them. I would agree with
6 the comments that she made.

7 CHAIR: Thank you.

8 ATTORNEY SMITH: We agree.

9 MR. CANNATA: Mr. Chairman?

10 CHAIR: Yes Michael?

11 MR. CANNATA: Two questions, if I
12 may? One, do we have to approve the motion for
13 confidentiality under those terms and conditions? And
14 --

15 CHAIR: Go ahead, continue.

16 MR. CANNATA: And the second
17 question was that, would those copies be returned to the
18 Applicant? Was that part of your agreement, Mr. Smith?

19 ATTORNEY SMITH: We'd like to have them
20 back. I have not asked to have them returned. At least
21 they would be available as long as folks need them for
22 proceeding. But counsel will keep them in their
23 custody.

24 MR. PATCH: And I guess I'd make

1 a motion that we grant the motion that was --

2 CHAIR: For protective order
3 for the Tennessee's Emergency Operating Procedures
4 Manual as proposed, is that correct?

5 ATTORNEY SMITH: Yes, and I think the
6 implicit understanding is they'll only be used in
7 connection with this proceeding.

8 CHAIR: Okay, we have a motion
9 and a second. Any further discussion?

10 ATTORNEY BROCKWAY: Just a clarification,
11 the "as proposed" is as described by Mr. Smith and
12 agreed to by counsel here this afternoon?

13 CHAIR: Yes. Yes. All those
14 in favor say "Aye."

15 GROUP: Aye.

16 CHAIR: Motion's approved.

17 We'll see you at 9:00 a.m. Thank you.

18 **OFF THE RECORD**

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