

UNITED STATES OF AMERICA
DEPARTMENT OF TRANSPORTATION

UNDERSTANDING PIPELINE INTEGRITY LEGISLATION
AND PROPOSED LEGISLATION

MEETING

Marriott at Metro Center Hotel
775 12th Street NW
Washington, DC
Parlor A

Friday,
March 14, 2003

The above captioned matter convened, pursuant
to notice at 8:30 a.m.

CHAIRPERSON:

Stacey L. Gerard
Associate Administrator for Pipeline Safety

ATTENDEES/PRESENTERS:

Sam Bonasso
Deputy Administrator, RSPA

Dan Martin
Industry

Mark Hereth
Hartford Steam Boiler

Barbara Betsock
Deputy Chief Counsel

Mike Israni
Program Manager, IMP

Jim Anderson
NAPSR National Chair

Rick Kuprewicz
Public Commentor

OTHER ATTENDEES FROM OPS/RSPA:

Bill Gute
Regional Director

Chris Weydell (ph)
Regional Director

Jeff Weiss
Program Development

Linda Daugherty
Enforcement Officer

Lane Miller
TSI

Zack Barrett
Implementation Chief for future enforcement of Gas IMP
Western Region

OTHER ATTENDEES FROM OPS/RSPA: (continued)

Paul Wood
CYCLA (ph)

Linda Lasley
Department General Counsel

Sherry Pappas
RSPA, Legal Counsel

Elaine Joost
RSPA, Chief Counsel

OTHER ATTENDEES:

Philip Sher
State of Connecticut

Paul Biancarty
Duke Energy Corporation

Daren Moore
Tennessee Pipeline

Andy Drake
Duke Energy

Jim Anderson
NAPSR National Chair
State of North Carolina

Laurie Trayeek
American Gas Association

George Mosinskis
American Gas Association

Alan Eastman
Pacific Gas and Electric Company

Terry Boss

Judy Schlegel
Oklahoma Natural Gas

Paul Gustillo
American Gas Association

OTHER ATTENDEES: (continued)

Dave Johnson
INRA (ph) Transportation Services Company

Pat Cary
El Paso

Andrew Theodos

AUDIENCE COMMENTORS:

Phil Byrd
RCB

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8:30 a.m.

MS. GERARD: If you're not interested in gas integrity management, you probably are in the wrong room. Maybe there are some other people who are interested down the hall but you're supposed to be focusing on gas integrity management if you're here. I'm Stacey Gerard. I'm the Associate Administrator for Pipeline Safety, and nice turnout. I think the significance of the day is to continue the dialogue on issues that are being identified associated with our proposed rulemaking on gas integrity management.

We are intending to try to develop a better understanding of all the issues that are identified or still need to be identified. My role today will be to try to direct questions to people who come to speak and raise issues to try to ferret out the best description of the issues for OPS to be able to consider as we proceed with this rulemaking.

We're very fortunate to have with us this morning the relatively new, four month old, Deputy Administrator of RSPA, Mr. Sam Bonasso, and Sam is a veteran in the transportation world, having about 25 years of experience in transportation, including being the Secretary of Transportation of West Virginia. He

1 has also 25 years experience working with the National
2 Consensus Standards industry, so he is very comfortable
3 with the priority that we place on working with
4 consensus standards here. I'd like him to say a few
5 words just so you can get to know him and know that
6 he's listening and paying attention to this issue.

7 MR. BONASSO: Thanks, Stacey. I've done
8 pretty well for a four month old. I walk and talk now
9 and I even know a few people in the audience here by
10 name. Thank you all very much for joining us today for
11 this important meeting about our proposed regulations
12 on gas pipeline integrity management.

13 I've been with DOT's Research and Special
14 Programs Administration, RSPA, since the Fall, and I'm
15 quickly gaining an appreciation for the complexities of
16 the many and varied ways in which RSPA serves the
17 public interest. In addition to pipelines, RSPA has
18 responsibilities for the transportation of hazardous
19 materials -- regulating hazardous material
20 transportation, prices response for the DOT system,
21 technology development and deployment, and training for
22 transportation safety professionals. It's a diverse
23 portfolio of activities and it's been a real challenge,
24 and exciting opportunity to learn about.

25 Few issues, however, in this organization are

1 as complex as gas pipeline integrity management rule
2 that we will discuss today. But as an engineer, and a
3 former Secretary of Transportation, I understand the
4 technical challenge, the importance of a performance-
5 based approach to regulation, and how to achieve change
6 through consensus-building. And I was really excited
7 to see that that was the process that was being applied
8 to this particular regulating activity.

9 President Bush has challenged us to provide a
10 government that is citizen-centered, market-based, and
11 results-oriented. And I can think of no better way to
12 do that in this context than with a consensus standard.

13 To meet these standards, our Secretary of
14 Transportation, Norman Y. Mineta is leading DOT to
15 change the way we do business by fostering innovative
16 and pioneering approaches to our work. In the past
17 year, Secretary Mineta and the Department built the new
18 Transportation Security Administration from scratch, an
19 extraordinary accomplishment. You don't hear the
20 words, it's impossible spoken around the DOT today.

21 Pipeline safety is our challenge. We need to
22 improve pipeline safety. Our past practices have not
23 been adequate. At times, tragically, inadequate. Our
24 exceptional pipeline professionals, Stacey Gerard and
25 our people in RSPA's Office of Pipeline Safety, have

1 devoted considerable effort to crafting regulations
2 that can truly raise the bar on pipeline safety in an
3 innovative, performance-based approach. And they have
4 done this on a fast track.

5 If my experience as a private sector business
6 person is any indicator, performance-based standards
7 are something that most business people are interested
8 in working with.

9 Less than three months ago, December 17th,
10 President Bush signed the Pipeline Safety Improvement
11 Act 2002. This new law grants us the authority to move
12 in the direction we need to travel. It strongly
13 supports integrity management regulations. It
14 strengthens RSPA's lead in a more substantial R&D
15 program for pipeline integrity, safety, and
16 reliability. It broadens our partnerships with states
17 to improve oversight of interstate pipelines. The law
18 reinforces the importance of sound, operator
19 qualification programs. It supports expanded emphasis
20 on one call programs, and it enhances efforts to help
21 communities live safely with pipelines. This new law
22 is a critical milestone for the pipeline industry, for
23 federal and state regulators, and for the American
24 public.

25 It's testimony to all of you that this law

1 got passed in a lame duck session. I mean I was -- I
2 had only been here about a month when the whole thing
3 happened, and I was absolutely stunned that you were
4 able to pull it off, and I realized I working with
5 people that were really dedicated to making things
6 happen. It passed with the support of grass roots
7 efforts on behalf of those whose lives have been
8 touched by pipeline tragedies. It passed with the
9 support of those who worked to protect our environment.
10 And it passed with the support of the pipeline
11 industry who stood tall, united and committed to
12 pipeline safety and reliability.

13 Our goal is a pipeline infrastructure that is
14 worthy of the confidence of the American people.
15 Americans expect that the pipelines that bring them a
16 large measure of their quality of life, their mobility,
17 and the vibrant economy, will be reliable and safe.
18 Safety is the purpose of the gas pipeline integrity
19 management rule, and we and you know that. Safety is
20 something that Secretary Mineta constantly reminds us
21 is our first priority. We can dive down into the
22 details of the problem, but we can't take our eye off
23 of safety.

24 From our view, we are very encouraged by the
25 prospects of improving safety of the nation's

1 pipelines. Our dedicated professionals have developed
2 a comprehensive and flexible program to address all
3 threats to pipelines. The President and Congress have
4 given us a strong pipeline safety law. Across the
5 pipeline enterprise, state and federal government,
6 industry and public, all of you here today, we are
7 resolved to find solutions that are effective and
8 efficient. It's one thing to improve safety, but we
9 must do more. We must do all we can to assure
10 Americans that they can live safely with pipelines.

11 As we move forward, I know we'll have an
12 important story to tell all of those people. Thank you
13 for bringing your energy, perspectives, and
14 participation here today and throughout the process. I
15 look forward to working with you.

16 MS. GERARD: Thank you, Sam. Really
17 appreciate your being here. So our purpose today is to
18 delve more deeply into technical, administrative, and
19 economic issues that stakeholders have identified with
20 our proposal. What we've done is identified a
21 representative from industry, from state government,
22 and from the public to lead off the discussion with an
23 overview from their particular perspective. I want to
24 tell you that we are dedicated to having a full
25 discussion of the issues in light of what we learned at

1 the public meeting a couple weeks ago, and in light of
2 petitions, both from the public, and from the industry.

3 We have decided to extend the comment period 30 days,
4 and that notice went to the Federal Register yesterday.

5 So if we don't get it all done today, we'll have yet
6 another public meeting.

7 We have our advisory committee meeting in a
8 couple of weeks which technically is a public meeting,
9 but if we still need to have more time for discussion
10 in a public setting, I'm committed to having another
11 public meeting in April. But we can decide that as we
12 see how the discussion of the day goes on. I was real
13 interested to hear Sam use the word, the pipeline
14 enterprise. That's all of us. And I heard that word a
15 couple weeks ago when we were at the NTSB reviewing our
16 performance, and getting the NTSB's take on our
17 approach to resolving a number of their
18 recommendations, and I was really surprised and excited
19 to hear them say that when they brief their intended
20 nominee, the President's nominee to be the new
21 Chairman, our existing Administrator, Ellen Engleman,
22 they told her that according to their performance
23 measures that the pipeline enterprise was the highest
24 performing mode in transportation last year. So I
25 think that's really a sign of the outcome of the

1 dedication and the energy that the whole pipeline
2 enterprise is bringing to discussing pipeline safety
3 problems and looking for the range of solutions that
4 are the most intelligent. And that's what we're here
5 today to do is to become more intelligent about the
6 issues associated with this proposal.

7 I'd like to see a show of hands just so we
8 know who's here. How many in the audience represent
9 pipeline operators? The clear majority. How many
10 contractors to pipeline industry? State government?
11 Good to see you. Representing the public? Well, Rick,
12 you've got a big job. You've got a big job ahead of
13 you. Okay. Anybody wants to change sides and do Rick?
14 He could use some help on his team. Are there anybody
15 representing the media here? Okay.

16 Now that we know who's here, I would like to
17 call for our first perspective, Mr. Dan Martin to give
18 some overview of industry comments.

19 MR. MARTIN: Thank you, Stacey. Good
20 morning. I appreciate the opportunity to make a few
21 comments here opening this morning, and kind of
22 highlight for you some of the items that we plan to
23 have addressed today in the technical discussions later
24 on.

25 First off, I guess, as we're talking about

1 the pipeline enterprise, I'm up here making comments
2 representing the NGA, AGA, and APGA. We've been
3 working very closely over the last many months,
4 reviewing the proposed rulemaking and the impacts, and
5 doing the evaluations on how we can make it better and
6 overall improve pipeline safety.

7 But I want to back up and reiterate comments
8 I made before, comments that Sam touched on as well.
9 The pipeline industry is committed to improving
10 pipeline safety. We feel very strongly about that in
11 several areas, and we talk about investments. In my
12 opinion, we have made a lot of investments in the past
13 to improve pipeline integrity. We are committed to
14 continue to make those investments. We're making those
15 investments now, preparing systems, for ...ability if
16 you will, even though there's not a rulemaking that's
17 been approved yet. Various companies are modifying
18 systems in anticipation of this, and we are also
19 committed as we go forth to making many more
20 investments to improve pipeline integrity.

21 So I think from that perspective, we are
22 committed to continue to make investments, and as we'll
23 see as we talk later, they are substantial investments
24 to modify our systems to meet some of the requirements
25 of the rulemaking.

1 As far as research goes, the pipeline
2 industry is a very strong believer in research and
3 development, and have been over the many, many years.
4 One of our key groups, the PRCI, celebrated its 50th
5 year this past year, and that's been one of the key
6 institutions we use for our research. We've put a lot
7 of money into that. That's voluntary funding. We also
8 look at co-funding opportunities. We continue to make
9 the investments in research. We feel very strongly
10 technical based solutions are one way that we can
11 continue to improve pipeline integrity and we're
12 committed to continue to make investments in research.

13 We have been involved in the OPS BAA
14 activities in reviewing, being on those various groups
15 that are looking at the research. We're very excited
16 about some of the opportunities we see coming out of
17 the BAAs, and further again, supporting the technical
18 basis for improving pipeline safety.

19 The third item on there was public policy
20 that's been touched on. We want to make sure that the
21 public understands we are committed to improving
22 pipeline safety. The various groups did send letters
23 to Secretary Mineta this past year supporting pipeline
24 safety bill -- legislation, and we continue to support
25 it at this point as well.

1 The last two items, one is education. That's
2 kind of a two way street. That's education for us to
3 understand the concerns of the public, of the
4 legislators, of the regulators; and then also to
5 educate those very groups on the impacts of what
6 they're proposing on the industry, but also what we are
7 already doing that may address some of those concerns.

8 And the communication is the same way, that we want to
9 make sure that we communicate adequately in forums like
10 this as to what we are doing, what we propose to do,
11 and the impact on any proposed regulations, what it
12 would have on the industry and ultimately on the
13 consumers as well.

14 So with that, we are continuing to be
15 committed to the integrity rule, in getting it right.
16 That's one of our efforts here today, is to make sure
17 we touch on the points that the regulators can
18 understand that we feel need to be considered,
19 reconsidered, taking into account some of the points we
20 plan to bring up to get it right. That we need to get
21 it right the first time as we go forward, as opposed to
22 coming in and modifying it at a later date.

23 The other thing on the development, I think
24 is very important, is to understand exactly the intent,
25 the interpretation of what is being proposed. We need

1 to make sure that we understand that as we're trying to
2 apply it to the impact on our facilities, and how we
3 would actually implement it. Implementation is a big
4 piece as well. It's one thing to say, to do something
5 without understanding the impact on the systems. An
6 example would be taking all the systems, you can't do
7 everything in a given year. I mean there's only so
8 much opportunity within a given year to do work on
9 pipeline safety without impacting something. You know,
10 potentially impacting capacity, or throughput, or
11 deliverability to customers in the winter time I don't
12 think is something that we want to do. And so I think
13 as we go forward, and you'll see in some of the
14 technical presentations, while we feel we need to
15 understand the impact and the interpretation on these
16 regulations and requirements.

17 Overall, the rule, we think, is very
18 comprehensive. It has the potential to be expensive,
19 but as I mentioned, the industry is committed to make
20 modifications on the systems, to do what we need to do.

21 But then, you know, to get it right and to implement
22 it, I think, is a key thing. The key take away today
23 is to listen to some of the technical presentations
24 that I'm going to summarize here in a moment, but all
25 in all I think the rule is very well structured. We

1 think there's just some areas of modification that we
2 would like to get our comments in today to make sure
3 that you take those into account in consideration as we
4 go forward in the coming weeks.

5 What we've done is boiled down the technical
6 presentations. We'll basically have six today. The
7 first one will be touching on refining the definition
8 of an HCA, the focus on the priorities, and simplify
9 the determination. Again, another key thing here is
10 making sure we all understand how this would be
11 defined. Definitions are key. And so that it can be
12 implemented.

13 To back up and to talk about that just for a
14 moment, I think it's key to understand the
15 interpretations as we go forward and we develop our
16 plans, and as the regulators come in to review our
17 programs to make sure we're in compliance, we want to
18 make sure we don't have different interpretations on
19 what we need to be doing. We need to understand that
20 up front.

21 The second technical presentation will be
22 prevent the overlap of reinspection period on baseline
23 period causing additional capacity constraints. I
24 touched on that. We are committed to do the inline
25 inspections, but we need to understand the true impact

1 on the natural gas infrastructure out there, and
2 ultimately on the consumer.

3 The third item is utilize available research
4 and understanding for inspection requirements below
5 stress pipelines.

6 The fourth topic will be talking about
7 adopting the NASE external corrosion direct assessment
8 standard and accept as an equivalent inspection method
9 and clearly define confirmatory direct assessment
10 methodology as well. Again, clearly understanding the
11 intent, and we have some examples we'll show on that.

12 Item five, utilize established technical
13 criteria for defect investigation and remediation, and
14 clarify the applicability of inspection technologies to
15 detect excavation damage.

16 And then lastly, we will be touching on
17 clarifying the basis for pressure testing of the
18 vintage materials and systems.

19 Those are the six key areas that we would
20 like to discuss today in the public forum, obviously,
21 as we submit comments. There may be some other ones,
22 but we think these are the key take-aways today and
23 messages we want to deliver here. And then with that,
24 we've also had some work done by Mark Hereth from
25 Hartford Steam Boiler, and he's going to come up and

1 talk a little bit about the environmental and safety
2 impacts as we see it today.

3 MR. HERETH: Good morning. The news of the
4 30 additional days is welcomed, especially in the
5 context of being able to look very carefully at the
6 environmental and the safety impacts, both from a
7 benefit standpoint and a cost standpoint. And I'm
8 going to walk through those briefly today, and give you
9 more of a visual presentation of this as opposed to
10 throwing numbers out.

11 And I'm going to cover three of the areas
12 that Dan talked about initially. The first has to do
13 with the HCA definition, and if we take the HCA
14 definition that was promulgated in August of 2002 and
15 look at that as the base case, and then work our way
16 across and look at what are -- if we make changes to
17 that -- we'll talk about that. What are the
18 incremental environmental costs that come with that?
19 What are the incremental environmental benefits that we
20 can look at? What are safety costs and then what are
21 safety benefits? The idea is that when we look at
22 change, let's consider both the benefit and the cost of
23 both to the environment and to safety.

24 So if you go down and you look at our second
25 line there, that really shows the changes to the

1 definition that were made in the NPRM that was issued
2 recently. And the concern, I think, from an
3 operational stand -- from an operator's standpoint, is
4 that the changes in the rule, while they are
5 comprehensive, and they are the kinds of things that
6 operators understand need to be addressed, the concern
7 is that they do increment the environmental costs, and
8 it's not obvious from the analysis that we've done at
9 this point that we can see the environmental benefit
10 that comes with that. And in a similar way, in a
11 smaller way, there is an increment in safety cost
12 that's not clear -- and this is where there is going to
13 be more discussion this afternoon about clarity in the
14 definition to help understand, so we can demonstrate
15 that there is clearly improvement in safety and
16 environmental.

17 Now, one of the things that we're going to
18 see this afternoon when Darren Moore talks more about
19 the HCA definition, because he's going to step back to
20 the year 2001 and really look at work that was
21 initiated in 1999, and the key is that the industry
22 developed a consequence-based approach, a technical-
23 based approach, using good, hard science that was then
24 validated using actual incident data. And when we
25 looked and compared the consequence-based approach that

1 was technical-based, and compared that to the base
2 case, if you apply that kind of thinking and reasoning,
3 you actually can reduce environmental cost, you can
4 improve environmental benefit, and you have the same
5 effect with safety. If you improve the safety benefit,
6 while at the same time reducing the cost of the safety.

7 So we're going to get into details this afternoon to
8 show that. We want to show you visually that the
9 concern is, on the part of the operators, it's to
10 improve the benefit, both from a safety and
11 environmental standpoint, and to bring clarity into the
12 good work that's been done with the HCA definitions.

13 And then if you look at the more recent work
14 that the industry has done following the issuance of
15 the NPRM, there has been additional focus and
16 additional work on the consequence-based approach. And
17 the proposals that you will see this afternoon really
18 offer the opportunity to pick up things that were not
19 conceived in the industry's original work in the year
20 2001, and really going back to the beginning of the
21 year 2000. And what the industry is proposing, or the
22 operators are looking at doing today is to really add
23 to and provide a greater level of safety.

24 Then the second issue Dan talked about was
25 this potential for the overlap of a baseline and

1 reassessment period. And again, if we start with that
2 base case of being, in this case, Congress, and the
3 interpretation that many of us have seen is that -- and
4 Andy Drake will actually present this in some
5 information this afternoon -- is that when we've
6 listened to staff, we've listened to press releases
7 from members of Congress, we see the message that the
8 idea is to complete the baseline and then begin
9 reassessment. However, the rule gives the impression
10 that there's the intention of having an overlap of the
11 baseline and assessment periods.

12 And so what we've done here is to contrast
13 cost and benefit for the environment and from a safety
14 standpoint. If you look at the way the NPRM is set up,
15 it does -- it would have the effect, if you would
16 overlap the baseline and the reassessment period, which
17 means you're going to have dual testing, or retesting
18 going on at the same time you're trying to do your
19 baseline work. You will have an increase in
20 environmental costs and with not a commensurate
21 increase in benefit. You will have an increase in
22 safety costs, because you will be doing activities on a
23 more rapid basis, and from the technical work that
24 we've done, and Andy Drake will talk about this this
25 afternoon, and the work that Patel's (ph) done looking

1 at the technology behind reassessment intervals, there
2 really is no safety benefit. So the important thing is
3 the operators want to convey that there is value in
4 looking at streamline processes, working through
5 issues, but there's got to be a good safety benefit
6 from the standpoint of implementing those.

7 And the final area is to really look at
8 confirmatory DA. And so the base case here is to look
9 at what -- as we heard earlier on -- the work of
10 national consensus standards and ASME B31.8S, really
11 the integrity management standard laid out there, and
12 then the work that NACE did with direct assessment with
13 both external corrosion direct assessment, the work
14 they've done with internal corrosion direct assessment
15 and actually that they've undertaken with SCC, or
16 stress corrosion cracking direct assessment.

17 If we then compare that to what's done in the
18 NPRM, this is a case where the NPRM has really done
19 something that's gone beyond, and done some, what we
20 think are some really good things from a standpoint of
21 providing another option for operators, is without
22 really having an impact of any significance from an
23 environmental standpoint, the NPRM proposes a
24 methodology which actually reduces costs, but provides
25 the same benefit. In the spirit of what Secretary

1 Mineta is committed to doing, which is to find better
2 ways, more innovative ways to do things, I think
3 operators are commending the agency for undertaking
4 this, for coming up with an innovative approach.

5 The thing that you'll hear about this
6 afternoon are simple clarifications to what's been done
7 with CDA to help drive that through the national
8 consensus standards or international consensus
9 standards processes through NACE, and to reinforce what
10 you've proposed in the NPRM.

11 The next thing I'd like to do is to talk just
12 briefly about safety performance and how that fits into
13 the context. The thing that we always have to
14 recognize is where are we today on this journey that
15 started back in the 70's when regulations were
16 initially implemented? Where are we in trying to
17 achieve? And the goal that's really been established
18 by the industry, by the industry leadership, is the
19 goal of zero. And so what we want to do is work
20 through how you can get there.

21 What you'll see as a part of the comment
22 process, is a report developed by ourselves and
23 Allegro. Allegro -- a woman named Sheryl Trench does a
24 common report that cuts across oil, natural gas and gas
25 distribution, so the methodology is consistent across

1 each of the forms of energy transportation. Yes, sir?

2 (question, off mike)

3 MR. HERETH: Zero incidence, which would mean
4 zero injury and zero fatalities. Thank you. Good
5 question. And that is a commitment that has been made
6 by the executives.

7 If you take and look at drilling down into
8 the industry experience -- and this is for natural gas
9 transmission for a period of from '85 to 2001, and you
10 then look at the causes of incidents, you break it down
11 into third party damage, external corrosion, internal
12 corrosion, and the industry has taken a very extensive
13 effort to demonstrate and develop a common set of
14 terminology here so that we can drill down and look at
15 this historically over time. What I'm going to do is
16 to take an example and walk through this, because the
17 key is it's important to understand your performance
18 today so you can drive the integrity work to improve,
19 using the right tools, whether that's inline
20 inspection, hydrotesting -- hydro -- pressure testing
21 is what I really should call it, or direct assessment,
22 for the combination of threats that are applicable to
23 your pipeline, and then periodically go back and
24 evaluate your performance and make sure you're making
25 improvements. Because if you're seeing a degradation

1 in performance, you need to go back and revisit your
2 plan.

3 As the progress is made towards zero --
4 again, that goal -- there is a need to have measures
5 along the way, and one of the things we wanted to do
6 was to step back and say well, what do other industries
7 do? What do other people do? And one such measure is
8 6-sigma (ph), and this is the technique that's used in
9 the manufacturing industry in managed defects. The
10 drive there is to reduce error, to reduce defects to
11 one in a million.

12 So where are we in the context of what this
13 transportation enterprise and this pipeline enterprise
14 is endeavored into? Well, if we take the 310,000 miles
15 of transmission pipes that are out there today in
16 natural gas, and as we'll get into this afternoon, if
17 we consider that there are four circles, or four
18 corridors -- pipeline corridors within that mile, that
19 yields 1.24 million units to be managed in a year. We
20 take the 310,000 miles, there's four units within that
21 -- that's the way the class location is defined, with a
22 660 foot corridor you double that to 1320, divide that
23 into a mile, that gives you four units per mile. That
24 says I've got a million and a quarter units that you're
25 trying to manage in this pipeline enterprise.

1 (inaudible question)

2 MR. HERETH: But even if we go to the 660
3 foot corridor that exists in our class locations today,
4 and if we take that and apply it to the system, that
5 gives you a quarter of 1320 feet. If I take a mile,
6 it's 5280 and I divide that by the 1320, incredibly,
7 it's four. No round off. It's actually four. So what
8 that says is I've got four impact zones in each mile
9 that I'm trying to manage. And you'll see this as we -
10 - if you think about the impact circles or the class
11 locations, that's what we're really trying to manage is
12 to manage those areas along the system. So if we say
13 that we start with that 310,000 miles, and we say we're
14 going to manage those units, that says we've got a
15 million and a quarter units that we're trying to manage
16 day in and day out, 365 days a year. Yes, inter- and
17 intra-transmission, thank you.

18 Now, let's take an example and work through
19 this. Let's take internal corrosion. You saw on the
20 list internal corrosion was one of the -- it's not the
21 leading cause, but it's up there. It's a significant
22 cause when you look at sheer numbers. And in fact, it
23 turns out to be on average about three incidents per
24 year per line pipe.

25 If I then go back and look at those one and a

1 quarter million units that we're trying to manage day
2 in and day out in this pipeline enterprise, that yields
3 a rate -- if I look at an incident as a defect or an
4 error, that's two incidents in a million. And if you
5 think back to our 6-Sigma, that's looking and saying
6 that's two in a million. Our interim measure to get to
7 form zero is one in a million, and there's progress
8 been made. We're close to that goal. Nobody's -- the
9 operators are not saying they're giving up. You're not
10 saying you're giving up. But we wanted to provide that
11 because it's important to understand where we are today
12 so that when we put these new requirements on, those
13 are the requirements that are going to help us make
14 that last increment from being close to 6-Sigma to
15 getting towards to 6-Sigma, and then ultimately to
16 zero. Yes.

17 MS. GERARD: Do you have any data, I mean
18 incidents are a lagging indicator. Do you have any
19 leading indicator numbers on defects found that might
20 be corrected to avoid ruptures? In terms of historical
21 experience?

22 MR. HERETH: The answer is we don't have a
23 lot of data that we can look at in a systematic way,
24 but in B31.8S there have been a framework defined to
25 get those leading indicators, and in fact, you've taken

1 some of those and embraced those and you've taken the
2 four key ones and embraced those in the NPRM, and then
3 you have also taken the more prescriptive measures, and
4 we commend you for doing this, I commend you for doing
5 this from an outsider perspective -- you're looking and
6 saying let's look at the leading measures as well as
7 the lagging measures. And we'll get that data over
8 time as people begin to get this testing going. Does
9 that help? Good. Thank you.

10 For the sake of time, I'm going to move on
11 unless there's any other questions.

12 (Pause.)

13 MS. GERARD: Rick, would you be prepared if I
14 changed the order of the agenda, to just have a little
15 point, counterpoint? Okay. Could you come up next?

16 MR. KUPREWICZ: That puts me on the spot.

17 MS. GERARD: Okay, well let's -- we may need
18 a little break. I'd like to put Rick up next. Why
19 don't we have just a stand up, stretch your legs, don't
20 leave the room, because Rick can probably get himself
21 set up pretty quick.

22 (Whereupon, the hearing was off the record
23 for a brief period.)

24 MS. GERARD: There's been some additional
25 attendance, and I just want to have another show of

1 hands. How many people here representing the public?
2 How many people here from the media? Okay. How many
3 people here representing pipeline operators? How many
4 here representing state government? We lost a few
5 there. We need you in the room. We need to balance
6 the scales, state guys in the room. How many people
7 here are working with the pipeline industry as
8 contractors? Okay, thank you.

9 Okay, I should say that. Thank you. How
10 many people here representing the Office of Pipeline
11 Safety? Or RSPA? Could you stand up? I want to make
12 sure everybody knows who you are. Okay. We've got a
13 couple regional directors -- there's Bill Gute, Chris
14 Weydell (ph). We've got our mapping team, some of the
15 eastern region. Mike Israni is here who is the
16 architect of Gas IMP. Jeff Weiss, Program Development,
17 Linda Daughterty, enforcement officer; from TSI, Lane
18 Miller; Zack Barrett who is the implementation chief
19 for future enforcement efforts for Gas IMP, and Paul
20 Wood from CYCLA (ph).

21 Are there any federal agencies here, other
22 than OPS-RSPA? FERC and NTSB, thank you. Okay, did I
23 forget anybody who wants to be introduced? And you
24 are? Department of Justice. Thank you for joining us.
25 Anybody else wants to be introduced? Trying to set an

1 informal environment here so that later in the day when
2 comments are made, I want other people to feel
3 comfortable coming up and doing point-counterpoint so
4 we can all get as informed as possible.

5 Okay, are we close? Okay. I'm really glad
6 that Sam Bonasso has the opportunity to get fully
7 entrenched in these issues. I see him feverishly
8 taking some notes over there and I'm probably not going
9 to be able any of his questions later because there's
10 some really good new material in these slides.

11 MR. KUPREWICZ: This is a good example, a
12 point here that I think we need to really underscore
13 what's going on here because the issue of high
14 consequence area and the rulemaking is going to rely on
15 some very sophisticated developing technologies, things
16 like direct assessment, inline inspection. The key
17 here is what you have in front of you is some of the
18 most sophisticated technology, computer skills, and it
19 doesn't work. So it's good to apply that new
20 technology, but the caveat here is, whether it be
21 inline inspection, sophisticated direct assessment, or
22 other technologies that are out there being fostered to
23 us, the key here is, you have to have confidence that
24 it's going to work. Don't over-stress to the public
25 something that you haven't proven yet and then find out

1 that it didn't work, because the backlash from that can
2 be tremendous.

3 With that, we'll just go right ahead and play
4 along. I can make these slides available later on in
5 the public domain. Thank you again for the opportunity
6 to talk about a very important rule that's being
7 promulgated here. I just want to say here that the gas
8 integrity rule objectives, from a perspective that I
9 see here consistently, fall into four objectives.

10 Do we have clear High Consequence Area
11 definitions that everybody can reasonably understand?
12 Do we understand that the federal regulations set
13 minimum standards, so as pipeline operators and owners,
14 these are the minimum standards, even the performance
15 standards, so there's nothing that says you can't
16 exceed those in areas that you feel are prudent. So we
17 see the regulatory process as setting a minimum,
18 whether it be prescriptive or performance-based,
19 setting minimum guidelines that the public can have
20 confidence that the situations are under control.

21 Do the regulations -- and the whole objective
22 here, based on several recent events in the last
23 several years that have occurred, is we need to be
24 insured, or we need to reestablish in the public
25 confidence in very important infrastructure in this

1 country. Make no bones about it. Right now, I
2 consistently see anxiety and concerns that well exceed
3 the issues regarding terrorism. They see this
4 infrastructure in their back yards and they want to
5 feel comfortable that it's under control.

6 MS. GERARD: Rick, I didn't really introduce
7 you and where you're from.

8 MR. KUPREWICZ: Hi.

9 MS. GERARD: Say where you're from.

10 MR. KUPREWICZ: I'm from Washington state.
11 I'm the president of Accufax Incorporated. What we
12 basically are is a third party, independent
13 organization that assists parties in trying to
14 negotiate issues related to pipeline. Obviously, in
15 Washington state we have the Bellingham liquid pipeline
16 failure which initiated a lot of activity in that area,
17 and I operate across the US and Canada. Thank you,
18 Stacey, for helping me out.

19 The last objective, the fourth objective is
20 we need to reaffirm the industry's credibility with the
21 public in this country. I know many people here are
22 very positive, forthworth folks, but there is a problem
23 int his country regarding this critical infrastructure
24 and we've got to get a handle on some of these
25 catastrophic failures. Give me a second here.

1 Regarding the High Consequence Area
2 definitions, we have some problems here. Regardless of
3 which side, if I can characterize it that way, you're
4 on, we see general confusion the High Consequence Area.
5 There needs to be some clarity, whether you're an
6 industry, the public, an inspection agency, or various
7 other players, as we go through the latest High
8 Consequence Area rulemaking, there appears to be a
9 great deal of confusion. And I don't want to belittle
10 attorneys for making a living, but that kind of
11 confusion can really create problems for all sides, and
12 it's not putting resources in the best place if we're
13 trying to use legalese to understand a very simple
14 concept. Now, we may not agree on the exact
15 definition, the final outcome of how many miles it
16 covers and whatever, but if we can't agree what the
17 definition is, it's just fraught with all kinds of
18 problems. And in the industry perspective, it just
19 generates tremendous costs for these folks.

20 Because the last thing we want to see you is
21 taking an inspection program that isn't going to really
22 be productive for you. I think that's a bona fide
23 public concern as well. So I was glad to hear this
24 morning about the need to be -- you know, efficient and
25 enterprise and all that. No one's trying to regulate

1 you guys out of business. That's what I see
2 consistently from the public side of it, so there is an
3 understanding of that process.

4 A positive note, we think, in the High
5 Consequence Area rulemaking, there was focus on
6 identified sites. We think that plays a very important
7 role in the definitions of High Consequence Areas, and
8 we see that as a positive step in getting clarity to
9 some of the past, shall we say less than strong,
10 regulation.

11 The Moderate Risk Area, I'll get into in a
12 minute here, is confusing to many of us on this side of
13 the fence. It appears to be a last minute change,
14 maybe a bona fide reason for it. We don't understand
15 it. Potential impact circles is another issue I want
16 to talk about real quick.

17 In the High Consequence Area definition, if I
18 could step back to these four major points I made
19 earlier, there are a couple issues here. As I
20 mentioned earlier, it's not only confusing to many in
21 the industry, but it's also confusing to the public.
22 And I get back to that credibility issue. If the
23 confusion runs rampant, the credibility gap just gets
24 bigger and bigger, and the anxiety levels go up. And
25 that serves no purpose for this country, or for the

1 infrastructure. In my simple way of looking at things,
2 the High Consequence Area definition should pass what I
3 call the simple logic diagram test. It should fit on
4 one little piece of paper, and if you want to call it a
5 logic diagram, or a flow diagram, you should be able to
6 just go down through it and say okay, I understand this
7 concept. I may not agree with the full definition and
8 what it covers, but I understand it covers this, and it
9 covers this, and it covers this. Gentlemen can agree
10 to disagree, but if they can't agree on what they're
11 agreeing on, we're in real trouble. And that's what I
12 hear, and there's many -- a vast group here from the
13 industry that I think are all shaking their heads, yes.
14 That in itself should be a flag. And I think the 30
15 day effort here, the extension, is a positive step, a
16 very positive step.

17 If the High Consequence Area definition is
18 not clear, the rest of the integrity management
19 regulation is just an expensive distraction. It's
20 going to take a lot of resources. It's not going to
21 satisfy any of the public or the industry's standards,
22 and we're going to spend a lot of effort maybe not
23 going very productively forward. So we need to
24 underscore the fact that the High Consequence Area
25 definition needs to be clarified.

1 Jumping to the identified sites here. As I
2 mentioned earlier, it's key to gaining the public's
3 confidence. It's probably one of the most important
4 areas in the High Consequence Area definition, from our
5 perspective. We believe that it covers areas in the
6 Class 1 and Class 2. We think that's an important
7 concept. We didn't say it covers all areas, or even
8 the majority of areas in Class 1 and Class 2. We think
9 that the identified sites provide clear focus on what
10 we call the unsheltered risk individuals, which has
11 tended to be an area of less significance in past
12 regulations and we think this is a very positive step
13 and want to reinforce that effort.

14 MS. DAUGHERTY: What's an example of
15 unsheltered public areas?

16 MR. KUPREWICZ: Carlsbad -- individuals were
17 outside. When you're getting into the heat flux zones
18 and you're not sheltered, you don't have a lot of time.

19
20 We commend also the identified sites in that
21 it's addressing issues -- hard to evacuate buildings --
22 that's a regional approach. The issue that probably is
23 being wrestled with with members of the industry is it
24 also addresses where people congregate. You know,
25 what's that mean? And I've seen many players to argue,

1 well, it's -- we've got 20 people and 50 days, that's
2 not enough. And I've seen others that say that should
3 be bigger. But we can disagree about what the exact
4 definition should be, but the concept's important. So
5 we want to reinforce those efforts within the OPS. We
6 think that's a positive step.

7 Back to the Moderate Risk Areas. We're
8 having a hard time understanding this. Some in the
9 industry are having a hard time understanding this.
10 Our reaction is that the Moderate Risk Area conflicts
11 with the High Consequence Area objectives. From a
12 perception perspective, it's going to be hard to
13 explain to people why Moderate Risk Areas are excluding
14 certain areas of Class 3 and Class 4. We think the
15 Moderate Risk Area overly complicates and confuses the
16 High Consequence Area definitions. It's not going to
17 be well received by the public, and at this time, we
18 cannot support the Moderate Risk Area concept.

19 In the definitions related to High
20 Consequence Area, the animal called "potential impact
21 circle" -- we think this can be easily resolved, but we
22 believe there's some clarification needed to insure, as
23 we believe OPS intended, that this covers all Classes
24 and in the wording of the potential impact circle,
25 again, it's probably very clear to the people who

1 authored it, but from a third party perspective,
2 reading this and trying to avoid legalese and
3 misinterpretation, circle of radius, or threshold
4 radius seemed to be interchanged. And we think they
5 mean something different. So we ask someone to look at
6 those. It's one or the other. Which one is it? So
7 we'd say in the potential impact circle, we think you
8 mean threshold radius, and so that can be easily
9 resolved and clarified.

10 I need to take a couple of minutes to talk
11 about some other gas integrity management rule issues
12 as a result -- that are coming out of the result of
13 some of the efforts that everybody's been working on
14 productively in the last couple years. Specifically,
15 there'll be three areas -- what we call pipeline citing
16 and modification issues, the myth of integrity
17 management, and performance measures and risk
18 management.

19 On pipeline citing modifications, I've run
20 across in the last six months -- and this is kind of
21 something that's evolved as a result of High
22 Consequence Area definitions, so this is more of a
23 heads up for all the folks in the room. The potential
24 impact radius calculations, the C-FER studies and
25 whatever, from our perspective, are empirical

1 developments we think are very positive steps and we
2 support this concept for development of a tool that
3 should advise or assist management or pipeline managers
4 on what areas of their pipeline they should be looking
5 at with a higher degree of scrutiny.

6 We do not believe the potential impact radius
7 should be used as a citing tool. I've run across a
8 couple situations, not in Washington state, where very
9 eager companies tried to add new infrastructure, either
10 new pipeline or compressor stations or whatever, are
11 citing the potential impact radius as a reason for
12 citing the equipment in very sensitive infrastructure.

13 I'll go even beyond the High Consequence Area and call
14 it very sensitive. Again, we support the concept of
15 the -- of using this correlation, empirical correlation
16 for screening, but not for citing. We advise that if
17 when you're getting -- if you're in a situation where
18 you have to encroach into these very sensitive areas,
19 you use more sophisticated engineering tools that are
20 out there, that go beyond this empirical correlation.

21 A classic example -- I need to use this case
22 and don't want to do it to ... folks, but it's just
23 true. The Carlsbad situation where 12 people died,
24 were outside the threshold radius zone. The public
25 understands that.

1 On the myth of integrity management. We
2 believe integrity management plays an important role
3 and we support the development of this regulation.
4 We've got to caution however, that as managers of
5 corporations, you can get so much energy focused into
6 integrity management tools and concepts -- we're going
7 to hear a lot of discussion today about this -- but
8 integrity management is not a caveat for other issues
9 that are required in proper operation or prudent
10 operation of a pipeline company. Keep your eye focused
11 on the operation and the management processes that
12 serve historically as checks and balances. Integrity
13 management plays an important tool in insuring the
14 safety of these pipeline -- this important pipeline
15 infrastructure, but if you go and focus in the extreme
16 just on that, believing that you now can abusively
17 operate your pipeline, you're setting your executive
18 team up and you don't really want to be doing that.

19 The other side of this coin is integrity
20 management does not advocate or excuse poor risk
21 management processes. We support the risk management
22 concept, the performance-based concept that the
23 industry is advocating. We think that's a proven
24 process. Integrity management serves as an important
25 tool to serve those processes, however, if you're not

1 making the right risk management calls, this tool can
2 still get you into trouble.

3 With that said and done, we've got some key
4 issues and questions for discussion at this meeting
5 today, so I appreciate your moving me up forward, even
6 though the technology isn't worth a darn.

7 MS. GERARD: I'm really sorry --

8 MR. KUPREWICZ: That's my fault for not
9 getting here earlier, but the following questions, I
10 think, need to be addressed or concerned or answered
11 today, or at least before the final regulation is
12 promulgated. Does the High Consequence Area definition
13 pass the simple logic diagram test? I think we can
14 reach consensus in this room that we need to get this
15 issue, we need to get this clear. It serves no purpose
16 for lack of clarity. We may not agree on the final
17 definition, what it covers, but if we can't agree on
18 the clarity, we've promulgated bad regulations.

19 This is another issue that I'd like to
20 understand in this process, is what percentage of
21 pipeline miles are going to be High Consequence Area
22 once we figure out what that definition is? And of
23 those pipeline miles, what's the breakdown by Class?
24 We're not looking for 50 percent, 30 percent, 20
25 percent, or 90 percent High Consequence Area

1 definition. We're just using that as a gauge to
2 understand how much effort is really going to be spent
3 here by these companies in the next 20 or 30 years.
4 It's a good reality check. It's a question that's
5 going to come up so let's just answer it right up
6 front.

7 Another question I'd ask the operators, are
8 we trying to promulgate good regulations but we may
9 have one of those unpredictable outcomes that nobody
10 may want. Are we inadvertently driving pipeline
11 infrastructure in High Consequence Areas or sensitive
12 areas towards smaller diameter pipelines that are less
13 efficient, and getting the smaller diameter, are we
14 inadvertently driving to exotic higher pressures? And
15 if we are, then I'd ask everybody to step back and say,
16 we are creating the illusion of safety here because as
17 pipeliners, I'm sure vigor is more efficient, and no
18 one is trying to get you away from that process. I
19 think that's a positive step.

20 So I want to be careful. A less experienced
21 person could think, we need to put in smaller lines and
22 go in the 2000-3000 pressure range with more exotic
23 metals. Because now you're -- it's an illusion of
24 safety.

25 What performance metrics are subject to

1 review? This is an issue that's going to get batted
2 around, and we're not going to resolve it today, but
3 I'll leave it as a question.

4 And again, the last question would be, on the
5 final rule timing. We support the efforts that
6 everybody's working hard the last couple years. 30
7 days we should be able to reach consensus on what the
8 definition should be. We think the High Consequence
9 Area definition is the most important issue in this.
10 The other details can come along. And we commend OPS.

11 They set up four parameters for testing -- pressure
12 testing, inline inspection, direct assessment, and
13 other -- and we like the concept of other because we
14 see this as a positive step. Because in America, it's
15 innovation that drives, and so we understand the
16 important role that OPS plays in trying to drive
17 additional innovations that results in efficiencies in
18 cost and improved safety all the way around. And we
19 don't want to close that opportunity. That's all I
20 have for now.

21 MS. GERARD: Wait Rick, I have a couple of
22 questions for you. On the issue of what percentage of
23 the pipeline is HCA, was that your question?

24 MR. KUPREWICZ: Yes, what percentage of the
25 gas transmission pipeline -- the 300,000, 310,000

1 miles. Are we talking -- well, when we've finished
2 with the High Consequence rulemaking, are we at ten
3 percent, five percent, 30 percent, 50 percent? And
4 then roughly -- again, these aren't exact numbers,
5 we're not looking for that -- and then what does that
6 break down by Class area?

7 MS. GERARD: Would you think it is relevant
8 what percentage of the population living near the
9 pipeline is protected? I mean, you know, the --
10 looking at the consequence issue here, what we're
11 focused on is really defining what is High Consequence,
12 and I have concern about looking at it just in terms of
13 mileage.

14 MR. KUPREWICZ: That's a detail. I have no
15 problem with adding the detail, I'm just looking at
16 this as a first series of questions, and if you want to
17 go into greater detail, that's fine. But I think the
18 average person, trying to wrestle with the credibility
19 issue and are we moving forward in a progressive
20 manner, their first question is going to be what am I
21 addressing? Understanding that they're going to
22 believe that Class means higher population densities.
23 So you can explain that to an average guy in more
24 detail. Most of them won't listen for the detail, they
25 just won't understand. I mean that's the way most --

1 you know, sound bite era where everybody wants to hear
2 the first question. So I just say that's the first
3 question that I want to ask, and then you want to bring
4 the clarifier in, the classification or the population
5 data.

6 But it's a good reality check in the sense of
7 -- you know, bad regulation here, bad interpretation,
8 could cost this industry many tens of billions of
9 dollars over the next several decades, and nobody wants
10 to do that. Nobody's wanting to make this an less
11 efficient process. So this is a reality check to
12 understand -- are we -- you know, is this going to get
13 really out of hand or is this right in the ball park?

14 MS. GERARD: I wanted to ask a question --
15 you come from a community where there is very active
16 citizen groups who are looking at the pipeline issues,
17 and did you have an opportunity before coming to this
18 meeting to discuss the issues you were going to raise
19 with a broader group of people, or are these just your
20 personal views?

21 MR. KUPREWICZ: Most of these are my
22 personal, but I did have a chance to discuss it with
23 several of the more opinionated -- I'll be very candid.
24 There's a tug-of-war going on between prescription and
25 performance. My personal view is I have no problem

1 with performance as long as there are other qualifiers.
2 There is an internal struggle going on there. It is
3 back to this credibility and trust issue, and I'd say
4 you can't promulgate regulation where you're catching
5 every situation.

6 MS. GERARD: Were you comfortable with the
7 criteria we proposed in the rule for qualification, for
8 the performance approach?

9 MR. KUPREWICZ: Yes. There are a couple
10 unknowns there. One is -- you know the devil's in the
11 details in terms of performance. B31.8S kind of gives
12 you a road map. You don't have to necessarily follow
13 it completely. The other thing, and I think this has
14 come up in some other meetings, the issue of national
15 security and what can you disclose is -- you know,
16 where's the reality check. If you're going to
17 performance based, again there's two schools in that
18 camp. There's an extreme camp that wants to know
19 everything about every anomaly in your pipeline, know
20 everything about your business. That's one extreme.
21 Then there's the other side that says, well, wait a
22 minute, we just want to understand that they've got the
23 right management processes, they're operating and
24 following their design conditions and they're following
25 reasonable performance measures. So I'd say those are

1 the two extremes. And in all rule making, extremes
2 don't tend to work out. They tend to work the
3 compromise.

4 As you try -- and it may be very honest,
5 meaningful national security issues in some situations,
6 but it comes across as, we're trying to hide some of
7 the important issues regarding do we have confidence in
8 the management process. So there's the balancing act
9 that needs to happen here. I caution and advise -- my
10 personal opinion is very seldom do I need to know all
11 the details about a company when I get in and look at a
12 a company. I just need -- there are certain flags that
13 you can see and as inspectors, you folks look for them
14 as well. Very seldom do you need all the details, or
15 all the anomalies, what kind are they? What kind of
16 pigs are you running, whatever.

17 MS. GERARD: I appreciate your comments and
18 I just want to make sure you understand that just
19 because we called you up early in the day doesn't mean
20 that that's the last we expect to hear from you today.

21 MR. KUPREWICZ: I am not normally shy. Thank
22 you for the time. Any other questions?

23 MS. GERARD: Phil, identify yourself for the
24 transcriber.

25 MR. SHER: (Off mike.)

1 MR. KUPREWICZ: Excuse me, what was your name
2 again? Philip Sher, okay, thank you.

3 MS. GERARD: State of Connecticut.

4 MR. KUPREWICZ: State of Connecticut. We
5 have a recorder up here.

6 MR. SHER: (question off mike)

7 MR. KUPREWICZ: Yes, more engineering
8 analysis for very sensitive areas. The super analysis
9 is an honest attempt to try to make a first pass cut of
10 rational zones using measured parameters, and the
11 parameters they use are the pipe -- nominal diameter,
12 the maximum allowable operating pressure. When you
13 look at more detailed -- I won't say blast clouds, but
14 flame fronts and whatever, you also have to work on
15 several other variables, so there are more detailed.
16 For integrity management, it would be very difficult to
17 apply these, but on a site-specific situation, you get
18 into these.

19 It isn't a modeling, it's an engineering
20 approach, and it usually captures things like time to
21 ignition. Time to ignition sets then the thousands of
22 pounds of fuel before ignition, so the problem with
23 time of ignition is, as anybody can tell you, in
24 rupture scenarios, it can vary considerably. But if
25 you're in a very sensitive area, you need to look at

1 the realistic factor. Thank you.

2 MS. GERARD: When you have questions, please
3 pick up the mike and identify yourself for the public
4 transcript. Any other questions for this presenter?
5 Okay, Rick, thanks very much, and we will be able to
6 get your slides up on the website.

7 MR. KUPREWICZ: Sure, no problem.

8 MS. GERARD: Back on our schedule, I wanted
9 to have a brief explanation from Barbara Betsock about
10 interpretation of the legislation as it relates to one
11 of the issues in the industry presentation. This is
12 the issue of -- Andy, Barb's going to speak to the
13 issue of the second issue on your slide, the ability to
14 control the schedule of the baseline and the retesting
15 interval, and whether there's opportunity there to make
16 any changes.

17 MS. BETSOCK: Good morning. When we look at
18 the statute, the first thing that is apparent is we
19 were really looking at risk. And we felt that very
20 strongly as we were working through the regulation on
21 it. When the statute passed, we didn't see that we
22 needed to make huge changes to the approaches we were
23 taking, but it is apparent that what Congress was
24 aiming at was to make sure that we addressed the
25 highest risks, and that we provided protection to the

1 appropriate areas.

2 As a result, we didn't look at the
3 Congressional language, where they put in ten years and
4 seven year periods as being anything different from
5 what the plain meaning is in the statute. We looked at
6 the language, and if you look at it, it says it's
7 minimum requirements. What the agency is to do is to
8 establish requirements for integrity management and
9 among the minimum requirements are that the baseline be
10 done within ten years, not later than ten years is the
11 precise language that's used. That's not establishing
12 -- that's establishing an outer limit for that
13 baseline, not an absolute time.

14 Therefore, our proposed regulation has some
15 variables in it for when you are to do the baseline.
16 In addition, the statute says that the highest risk
17 facilities are to be subjected to a baseline assessment
18 within five years. The statute goes on to say that
19 minimum requirements include reassessment of these same
20 facilities within seven years, and the language is, at
21 a minimum of once every seven years. The language is
22 precise: at a minimum.

23 It's very hard for us to see this language as
24 anything but what it seems to us to be pretty plain,
25 and that is that if you have a very high risk facility,

1 you may have to do your baseline assessment in two
2 years, and a reassessment in seven. There is some
3 flexibility in our proposed rule on what the
4 reassessment is, but we don't think we would meet the
5 requirements of the statute if we read it any other
6 way.

7 Now we do invite comments. If you see any --
8 we understand industry has some concerns about this and
9 thinks that they read it differently, and we certainly
10 invite any comments on the language of the statute and
11 recognize that statutes can change if indeed we find
12 that that is a major problem, and we're wrong on that,
13 it is possible a statute could change. But right now,
14 that is how we read it. As I say, we will take
15 comments on the language of the statute where you may
16 see some ambiguity that we're missing. It's not cast
17 in concrete, our opinion, but we need -- it really
18 needs to be pointed out, the ambiguities. Thank you.

19 MS. GERARD: Wait a minute, Barbara. Any
20 questions? Identify yourself, sir.

21 MR. BIANCARTY: Paul Biancarty, Duke Energy
22 Corporation. Barbara, I think I understand what you're
23 saying about the plain language. I'm wondering if
24 you've got some legislative history? I notice that
25 there's not been a conference report published, to my

1 knowledge, since the December 17th enactment. I'm
2 wondering if you know of any -- maybe Stacey might know
3 -- whether there's some other language somewhere that
4 would throw light on this question of what was intended
5 when the legislation was prepared?

6 MS. BETSOCK: Well, you only get, Paul, you
7 only get to that language if you find an ambiguity in
8 the statutory language. The law is pretty clear that
9 the plain meaning of the law governs. What Congress
10 voted into law counts. Committee reports, colloquies
11 by members, those things you only reach if there's
12 ambiguity. So we need to find the ambiguity first.
13 I'm not aware of any legislative history that really is
14 contrary to this except some colloquy by one member,
15 and that isn't even on the floor.

16 MR. BIANCARTY: Is there any report that is
17 likely to be published subsequent to the previous
18 reports? I mean this legislation has been going on for
19 quite some time. I know there is an old conference
20 report, but do you know if there's going to be anything
21 published that would reflect more directly on the
22 December action?

23 MS. BETSOCK: We have not heard of anything
24 else being published, but that doesn't mean it won't
25 happen.

1 MR. BIANCARTY: Thanks.

2 MS. GERARD: Any other questions for Barbara
3 Betsock? Thanks, Barbara. Our next presenter will be
4 Mike Israni who's with the Office of Pipeline Safety,
5 and he is the architect of this proposal. Mike's going
6 to give a brief overview. This portion is just on High
7 Consequence Areas.

8 MR. ISRANI: I want to take just five minutes
9 to set up the computer.

10 MS. GERARD: Why don't we take a five minute
11 break.

12 (Whereupon, the hearing was off the record
13 for a 15 minute period.)

14 MS. GERARD: We're changing the format a
15 little bit to get the dialogue going in a little bit
16 more fluid way, so we've called up a cross section of
17 representatives here. If there's a state guy who wants
18 to come forward and get near the mike, I want to make
19 sure that we have everybody commenting on everybody's
20 point of view here. I think that will help eliminate
21 the situation. Where is Jim Anderson? Come up here.

22 MR. ISRANI: Okay, I'm Mike Israni. I'm the
23 Program Manager for Pipeline Integrity Management.
24 Sitting next to me is Daren Moore from Tennessee
25 Pipeline. And we have Andy Drake from Duke Energy, and

1 we have Mr. Anderson representing the state of North
2 Carolina, and we have Zack Barrett from our Western
3 Region, but he'll be our integrity management
4 implementation leader for the gas integrity management
5 group; and we have Linda Daugherty who's our
6 enforcement officer in the Office of Pipeline Safety,
7 and finally we have Rick Kuprewicz -- I shouldn't
8 forget his name -- from the public, from Washington
9 state.

10 I offer this integrity management rule and
11 the team with ... chief counsel's office and developed
12 input from all sources. I'm not at all surprised what
13 I'm hearing about the High Consequence Area confusion.
14 This is what happens when you try to bring a balance
15 of industry, public, and regulators into a rulemaking
16 where everybody has their strong views. I'm here to
17 communicate what is in the rule, the proposed rule, and
18 why it is there. I'm here to clarify, not interpret,
19 rules for you. And I'm going to listen to your issues,
20 and we are taking notes and we'll try to work on those.

21 In the morning session, I'm going to present
22 High Consequence Area. In the afternoon session, I'm
23 going to talk about integrity management requirements
24 in those High Consequence Areas.

25 So I'm going to start with our main goals.

1 Our main goals are to improve public safety and provide
2 increased assurance to the public. And we'd also like
3 to accelerate the integrity assessment of the pipelines
4 in the High Consequence Areas. Some of our operators
5 have already been doing assessment of the pipeline.
6 This will accelerate the process. And for those who
7 have been not doing it, this will require them to do it
8 on a periodic basis as we have called out in the rule.

9 We also like to improve integrity management
10 systems within the companies. Some companies already
11 have a mature integrity management program, and by this
12 rule we would like to bring uniformity so that all the
13 companies, all of the integrity management programs are
14 in accordance with our elements. They will develop
15 their integrity management programs and they will
16 follow. And finally, we would like to improve
17 government's role in validating integrity management.

18 This is where we have the High Consequence
19 Area in the rule -- final rule that we issued on August
20 6th, last year. Four components of the High
21 Consequence Areas. First of all, I'd like to say that
22 the High Consequence Areas for the gas and the liquid
23 rule are different, because gas and the liquid are
24 different entities, with different physical properties.
25 Their impact is going to be different. Gas being

1 lighter, it will rise up. Gas, indeed, when the
2 pipeline ruptures and gas leaks and gets ignited, it
3 will flame up farther. Impact of the flame of fire is
4 limited as compared to liquid. Liquid can flow to the
5 streams and have an impact in a large area.

6 The four components that we are including in
7 the High Consequence Area. The first one is Class 3
8 and 4 locations. Why the Class 3 and 4 locations?
9 Currently in our regulations, Part 192, Class 3 and 4
10 locations are defined as populated areas. This
11 information has been in the books for 30 years, has
12 been in the ASME B31.8 standard for 30 years, and we
13 chose Class 3 and 4 locations because we believe that
14 industry already has the data on this information, so
15 this will minimize the work for them having to go out
16 and relocate all the people in the residential areas
17 falling in the 660 foot zone that Class 3 has the
18 corridor limits -- 660 feet on either side of the
19 pipeline.

20 I'll go to the third component here, the
21 building or facility having persons who are difficult
22 to evacuate. When we decided to write the integrity
23 management rule, we wanted to go beyond what currently
24 Class 3 and 4 locations will control. We wanted to
25 include these facilities like hospitals, schools,

1 nursing homes, prisons, which are not covered
2 previously. If they were falling within the Class
3 locations it was fine, but if these facilities were in
4 Class 1 and 2 locations, we wanted to include them.

5 Our goal was to improve safety or existing
6 regulations, and we also wanted to add places where
7 people congregate, such as playgrounds, camping
8 grounds, recreational facilities. Currently we have
9 this requirement in the regulations, but it is limited
10 to only 300 foot corridor, and by this rulemaking, we
11 expanded that to go beyond 300 feet, to go up to 660 or
12 even 1000 feet.

13 For each and every element, I'm going to show
14 you some diagrams and sketches to clarify things for
15 you before I answer any questions.

16 In this slide, the very first component on
17 the top that you see is the fifth High Consequence Area
18 that we added in the proposed rule that got published
19 on January 28th. This component represents residential
20 areas which are beyond 660 feet, which were not picked
21 up in the original High Consequence Area final rule
22 that we issued on August 6th last year. So we wanted
23 to pick up those areas because impact can be felt that
24 far, and we have had evidence, in places like New
25 Jersey -- Edison, New Jersey, where the impact was felt

1 beyond 660 feet, and there are other incidents where
2 impact has gone beyond that limit. So we wanted to add
3 this component of residential areas which are located -
4 - this would include the areas which are outside of
5 Class 3 and 4 locations, meaning in Class 1 and 2 in
6 areas where the housing is located beyond 660 feet.

7 We use this 20 building or more factor within
8 1000 feet, purely mathematical derivation from -- using
9 the same density that we currently use in the Class 3
10 location. 46 buildings in a mile by quarter mile
11 rectangle will be the equivalent to 20 buildings in a
12 circle of 1000 diameter.

13 We also introduce Potential Impact Circles
14 and Radius and Threshold Radius -- and I'm going to
15 clarify what those are and why we are introducing
16 those. The first one is Potential Impact Radius. Here
17 we used the C-FER equation, which is .69 square root of
18 pressure times diameter squared, and that's in the ASME
19 B31.8 standard. We're using the same C-FER equation as
20 our base equation.

21 And we want to add a safety margin to that
22 equation, and that's why we chose to use Threshold
23 Radius. Why we did that? Because C-FER equation has a
24 good record -- they have actually seen the explosion
25 distances and measured, using their mathematical

1 calculations, and found that they have pretty much laid
2 the footprint of the explosion, but there are still
3 some assumptions within the C-FER equation, and we
4 wanted to take care of those by adding safety margin.
5 There are other reasons too. The time is very slanted,
6 and if your pipeline is running like this, and if the
7 pipeline ruptures, your explosion footprint will be
8 longer than what C-FER calculates. That's because of
9 the flame, which is higher, will obviously go above
10 ground. So the safety margin will take care of some of
11 these small things.

12 Potential Impact Circles that we use in this
13 for the impact zones, was based on the Threshold
14 Radius, meaning C-FER equation many use, you calculated
15 what radius is, we added a safety margin to come to
16 Threshold Radius, and that radius to be used to
17 determine the circles, Potential Impact Circles. So we
18 define Potential Impact Circle as one which has 20 or
19 more buildings within a circle of threshold radius of
20 1000 feet. Or the Potential Impact Circle is one which
21 has hard to evacuate places in all these three
22 corridors, or places where people gather.

23 Potential Impact Zone is sliding the
24 Potential Impact Circle along the pipeline.

25 And now the good part. I'm going to show you

1 diagrams so you can understand each and every component
2 very clearly. The very first component was class
3 location. Class 3 and 4 are High Consequence Areas by
4 definition. Class 3 location is defined as one
5 continuous line of a pipeline with 46 buildings in a
6 660 feet on either side of the pipeline corridor. So
7 you have a rectangle with 46 buildings, that becomes a
8 Class 3 location. Class 4 location is where four story
9 or higher buildings per the line. So I shown you some
10 in the diagram here, all these Class 3 and 4 locations
11 -- they're down there. This is very simple, simple
12 combinations. There are so many different scenarios
13 for class locations, but this is just gives you sort of
14 a rough picture of what Class 3 or Class 4 locations
15 are.

16 This one slide gives you all the components
17 that we have in the High Consequence Areas. We'll
18 start from the left hand side, Class 3 locations. As
19 you see, this one covers all those 46 buildings in the
20 one continuous mile. This is one component, and we
21 have Class 4 locations as well as a High Consequence
22 Area. This is a new component that we added in the
23 proposed rule. Residential areas which are beyond 660
24 feet which happen to fall in Class 1 and 2 location,
25 which were not picked up originally in the High

1 Consequence Area, the final rule that we put out. So
2 this proposed rule adds that to the original High
3 Consequence Area component. And how do you -- we do
4 not see this residential area to be in one continuous
5 mile as the Class location is. So therefore, we use
6 this by using the Threshold Radius and the Impact
7 Circle to determine, and we think if 20 buildings
8 falling in a circle of 1000 feet, then that becomes a
9 High Consequence Area.

10 Not all operators will have to worry about
11 this component if their pipeline damage and pressures
12 would never have an impact that would go that far.
13 Only those operators which have larger diameter
14 pipelines, mostly rule upon this if you have greater
15 than 30 inch diameter pipelines and more than 1000
16 pound pressure, you will have to consider this factor.

17 There will be some cases where pipeline is 30 inches
18 or even less and really, really high pressure, you
19 could reach that impact zone, but very unlikely.

20 Then we have shown on this slide, by example
21 here, the prison which is hard to evacuate, churches or
22 playgrounds which is falling under the places where
23 people gather, and are hard to evacuate. I've shown
24 the distances that these can fall in any of those
25 corridors, depending on the pipe diameter and pressure,

1 and it may or may not apply to all pipeline operators
2 depending on the pipeline diameter and pressure.

3 This is one example of how an operator will
4 determine how much of the pipeline segment is going to
5 be affecting the High Consequence Area. For example,
6 if you have a prison located 400 feet from a pipeline;
7 your pipeline diameter is this, pressure is this. If
8 you calculate, using C-FER equation, your potential
9 impact radius is 468 feet. We are adding the safety
10 margin and bringing it to 660 feet corridor. And this
11 660 feet, as I say, originally be in the proposed rule
12 we have -- in the High Consequence Area rule as well as
13 in the proposed rule, we have put these three
14 corridors: 300 feet, 660 feet, and 1000 point more for
15 uniformity, more for simplicity, and also to take care
16 of some safety margin.

17 So if you are falling anywhere above 300
18 feet, but less than 660 feet, you use 660 foot
19 corridor, and that's how we have proposed in the rule.

20 So the 660 foot threshold radius, if you draw a
21 circle, you will see the area ... the pipeline, and
22 that pipeline becomes your High Consequence Area
23 segment of the pipeline. This is one way of
24 determining the pipeline segment that will affect the
25 High Consequence Area.

1 Second method for doing that, by sliding an
2 impact circle. You will get the same results, but this
3 is another way to do it. If you draw the impact circle
4 using your Potential Impact Radius C-FER, which in this
5 example I've shown 655, and then your threshold radius,
6 660, you adopt 660 for circle and you keep drawing the
7 circle unless you've got the point that is closest to
8 the pipeline, and then the other end -- so this becomes
9 your zone, what we call Potential Impact Zone.
10 Similarly, if you have something on this side, your
11 zone is going to be a rectangle.

12 Also I have shown on the diagram that we have
13 included residential areas which are beyond 660 feet,
14 and here is a good diagram to indicate how we have
15 picked up -- what we mean. So if your residential
16 area, if you have 20 or more buildings located such as
17 they are mostly falling beyond 660 feet, for this
18 particular illustration, you see there are only about
19 three or five building which fall within the 660 feet,
20 so it would not fall in the Class 3 location, even if
21 you had a quite concentrated residential area. But if
22 your pipeline diameter is large enough, the Potential
23 Impact is going to be much higher, and if you get 20
24 buildings in a circle, that becomes an HCA.

25 This was -- I picked up this gauge from the

1 C-FER model report. And here I've shown how you can
2 determine the threshold radius. For example, if there
3 is a 12 inch pipeline diameter, and your pipeline
4 pressure is 800, your Potential Impact Area is close to
5 150. So we are using -- instead of the 150, we are
6 using 300 for threshold because we are using only three
7 corridors, 300 feet, 660 feet, 1000 feet as I said
8 earlier. So in this case, you see for a 12 inch
9 pipeline up to 1400 pressure, you will never get beyond
10 300 feet. We are using the same threshold, 300 feet in
11 this case. If you're a 24 inch pipeline, and your 1000
12 pound pressure, your Potential Impact Area is going to
13 450 or 480, so you're using 660 foot threshold. That's
14 how we are showing the simplest case, how to determine
15 threshold radius.

16 Once you know threshold radius, then you draw
17 the impact circle using that threshold radius, and you
18 determine your segment.

19 Caution here about what is Moderate Risk
20 Areas -- and this was introduced in the last minute,
21 what's causing the confusion. Here's just one
22 illustration, one example, of how Moderate Risk Areas
23 can be used. If you go the sliding mile circle -- the
24 sliding mile definition of Class 3 location as we
25 currently have in Part 192, and while we are

1 considering as a part of High Consequence Area, and if
2 you get building scenario like this, you have this
3 entire area as a Class 3 location because you -- if you
4 slide this anywhere, you get 46 buildings. So the
5 situation was happening that you have only a couple of
6 buildings -- one or two buildings on this side, the
7 majority of the buildings are clustered here. So then
8 this part becomes Moderate Risk Area. What we mean by
9 it is if an area, falling within the High Consequence
10 Area in the broad definition, but has a less impact as
11 compared to this cluster of homes which we call High
12 Consequence Area. So under the proposed rule, we are
13 saying in the Moderate Risk Area you have more
14 flexibility, you have longer intervals for testing.
15 Whereas High Consequence Areas we are giving you ten
16 years for baseline; for Moderate Risk Area, we're
17 giving you 13 years for baseline.

18 Unfortunately, I can't show you this clearly,
19 but I was trying to show, for example, a church located
20 in Class 1 location -- these are examples of some rural
21 buildings and example I picked was a rural church,
22 where there's a High Consequence Area or it's a
23 Moderate Risk Area, we have put as a question in our
24 preamble, and we are inviting public comment on this.
25 Currently this church would fall as a High Consequence

1 Area, and the question for the public is, whether we've
2 done this as a Moderate Risk Area because those
3 buildings are occupied infrequently and they'll meet
4 the definition if there are 20 or more people gathered
5 there 50 days in a year. One this is determined that
6 this is a Moderate Risk Area, then again, you have
7 flexibility on the testing intervals as for the
8 proposed rule.

9 We have also asked for comments with the
10 Moderate Risk Areas we can go a bit further flexibility
11 and require only confirmatory direct assessment or
12 preventive and mitigative measures. Confirmatory
13 direct assessment or preventive and mitigative measures
14 only. These are questions we ask from public and when
15 we receive their comments, we see their strong
16 viewpoints and we'll make a determination accordingly.

17 Now for most operators who are using smart
18 pigs or who are doing pressure testing, Moderate Risk
19 Area may not mean much, because smart pigs you'd be
20 running for ... compared to station, you know, could be
21 50 miles, 100 miles, so these few miles that you saved
22 is not going to do much for you. But when you do
23 direct assessment, it matters a lot, because definitely
24 less excavations you'll be required to do.

25 Or when the same operators who are using

1 smart technology, when their time comes for
2 confirmatory direct assessment, and they decide to go
3 with confirmatory direct assessment in lieu of again
4 ... after seven years, then they will be appreciating
5 to have Moderate Risk Areas.

6 This is an example of why Moderate Risk Areas
7 can be useful and why we introduced them. For example,
8 in a Class 3 location, if your cluster of buildings
9 which are located such that they are beyond the 300
10 foot threshold that we have, for small diameter
11 pipelines whose impact radius never goes -- or impact
12 circle never goes beyond the 300 foot threshold, may
13 have an entire area, entire Class 3 as a Moderate Risk
14 Area, and may not have to do as stringent testing as we
15 have for the rest of the pipeline which falls in High
16 Consequence Area within the location. For example, if
17 you're five buildings in Class 4 location are so far
18 away that they're barely touching the 660 foot limit,
19 and your impact zone reaches only here, so you, in that
20 case also, we're considering this as a Moderate Risk
21 Area.

22 Okay, so that's for the next session, so I
23 will take questions.

24 MR. DRAKE: Everybody's so quiet. I have a
25 comment and a question, I think. Stacey put me up here

1 to make it lively, and I'll try to live up to that
2 expectation, but -- I think -- my name's Andy Drake.
3 I'm with Duke Energy gas transmission out of Houston,
4 Texas. An observation, I think, which picks up earlier
5 public comment -- we very much share that sentiment.
6 You see going through this, this is a very intricate
7 rule, and I think we recognize that there's a lot of
8 effort to incorporate technology and precision and a
9 lot of different drivers here. But what the fall out
10 is that it becomes inordinately inconsistent, I mean
11 inordinately intricate and inconsistent in trying to be
12 so precise it starts moving around. In some places,
13 you know, we even see where we're trying to be really
14 precise, where we're using these models, and then we're
15 throwing it out to a big -- adding big safety margins
16 onto it, or throwing it out into a big threshold
17 radius, it seems kind of like you're measuring with a
18 laser and you're cutting with a chain saw. What are we
19 doing? Why are they doing this fancy equation? We're
20 just going to go way out there anyway, why don't we
21 just go way out there, make it simple?

22 I think the fundamental engineering principle
23 is, you know, keep it simple. Just principle. If we
24 get -- I'm a big believer in you can get a lot of bang
25 for your buck with a very focused level of the effort.

1 Define that effort and focus on it, and you will get
2 the magnitude of what you're trying to accomplish. If
3 you get to the 99 percentile, the effort becomes
4 disproportionately complex. And I think that's kind of
5 where we're headed here.

6 I guess what I'd like to see is -- here comes
7 the question part -- is what are your over-arching
8 goals and targets? When my management looks me in the
9 eye, they say, Andy, how much is this rule -- how much
10 of our system's in this rule? I literally do not know.

11 I literally do not know. And my management will be
12 extremely anxious about that. We're at the fourth
13 quarter here, two minutes to go, and we are talking
14 about something that we can't land. This is very
15 concerning to us. When we look at this rule, we are
16 trying to gauge how to ramp up on this. We are just
17 spinning our clutch wildly. I literally don't know
18 where to start, because we're seeing huge swings in the
19 volumes of pipes and the type of pipes and the type of
20 sites we're chasing. And I think we need to -- I think
21 we're buried so deep up against the tree that we're
22 doing some sort of microscopic analysis of bark fiber.

23 We need to back away and look at the damn forest and
24 work our way through the trees. We have gotten way
25 wrapped up in the details here and we need to back up

1 and gut-check ourselves on what are our goals here and
2 land this thing with some sort of reasonably straight
3 forward, reasonably technical-based effort that
4 protects everybody. We're not -- the point here is --
5 and I think we recognized that earlier -- this is a
6 starting place. We don't want to burn up all our
7 energies defining where to start. We want to start.
8 But when we spend all this energy trying to keep all
9 these balls in the air with who lives where and where
10 did all these people move to and who gathers where, and
11 what intersections are gathering enough traffic to be
12 considered a gathering -- holy cow. Don't we just want
13 to inspect the pipe? Yes. Daren. He's next.

14 I just want to -- really do have a question,
15 and that is, what are your over-arching targets and
16 goals? And if we can see that, I think we have a
17 chance to land this. But right now, it's becoming
18 incredibly complex to see what the target is. You,
19 Mike, anybody out here who can handle that?

20 MR. ISRANI: Let me start here. What I
21 understand from Andy's concern here is about counting
22 all these residential areas, the large corridor like
23 1000 feet long, even if they may have an impact zone
24 going only about 680 or 690, and what he wants to see,
25 why are we going that far? As I said earlier, that we

1 chose these special radius for simplicity. We also
2 chose to take care of some safety margin, and we also
3 chose because current rule has 300 foot and 660 foot
4 corridors already there, and we wanted to have one
5 fixed corridor for longer periods.

6 What I see the point is mentioning that there
7 would be some operators who would just miss the target
8 and so what I understand is I think your objection for
9 that would continue if the potential impact zone was
10 determined as a circle with some safety margin as
11 compared to having some fixed special radius?

12 MR. DRAKE: My question is bigger than that.

13 MS. GERARD: His question was what are our
14 goals? ... expand the level of protection over what
15 they are in the existing rules? We are trying to pick
16 up more geography than we have in the Class 3 and 4.
17 That's clearly one of our goals. We are trying to stay
18 science-based as we pick up that. We want it to be
19 based on the likelihood that if there is a failure, you
20 could affect these larger areas. And one of our goals
21 is to be able to be more effective in our oversight --
22 that was Mike's fourth. We also want to know and be
23 able to communicate to everybody else where we're
24 adding the protection, so we do want to be able to
25 answer the question, where we are providing the

1 protection. I think those are our goals.

2 MR. DRAKE: I'm glad to sit here, I mean we
3 want to talk about this, we want to work this out. I
4 can tell you what the scenarios we run through just
5 trying to keep up with the turbulence of this rule. At
6 Duke Energy, the company that we hold, we have a GIS
7 system, we're able to try to run these different
8 scenarios down there by using the computer-based data
9 system that we have on the corridor. When we look at
10 Class 3 and 4, it comprises somewhere around 12 percent
11 of our total mileage -- outright, just miles on the
12 pipe. But -- and here's the question that you want, I
13 think, too, there's collateral information that bears
14 on it. That represents about 60 percent of our valve
15 sections, 50 percent of our valve sections, and 80
16 percent of our compressor station discharges.

17 Now, what's the relevance of all that?
18 Sounds like some sort of incredibly -- go back to the
19 microfiber thing. But the point is how you work the
20 pipe depends not how much of the system is going to be
21 inspected. That's just Class 3 and 4. It doesn't take
22 into account the gathering places, which I think are
23 valid also. Those are outside Class 3. Those are
24 extra places. That's just Class 3. But given that,
25 for the big transmission companies for sure, pigging is

1 the answer that you're going to try to get to, because
2 financially it's the -- when you have to do this over
3 and over again, it becomes the better answer. That
4 means you're going to be pigging, for us, 80 percent of
5 the system is now going to be investigated because of
6 that mileage. What's the target?

7 Now some of these other scenarios that just
8 came out, switched us up where we're running now 75
9 percent of our Class 2, 43 percent of our Class 1.
10 We're up, in the compressor station discharges, we're
11 at 100 percent. That's 100 percent. That's not a
12 focus. That's everything. If we're trying to find
13 somewhere to start, I think you've got to keep all
14 those numbers kind of in front of you.

15 And that's what I'm asking you. What is our
16 target? Class 3, on our system, represents 75 to 80
17 percent of the people. That's just Class 3. And then
18 you add the gathering places on top of that. I just
19 want to know what our target is. What are we trying to
20 hit? You know, in some of these scenarios, if we're
21 going to 100 percent of the pipe, we don't need HCAs.
22 We can quit the effort. Forget it. Why are we
23 tracking all this stuff? Just do it. But that's not -
24 - I think you're going to find that the cost is ramped
25 up very quickly on a lot of the operating sector, very,

1 very quickly on a lot of the operating sector. So I
2 think those are the questions I think we're trying to
3 get some clarity to. Yes, over-arching, we want to add
4 value and we want to look at more geography. But we
5 need some more specificity.

6 MS. GERARD: Clarifying question. You just
7 said you're going to have to run the pig on all that
8 amount of pipe. When you say you have to run the pig,
9 does that mean you have the full cost of assessment on
10 the whole line when you run the pig? Just because the
11 instrument is traveling through the system, can you
12 choose to interpret the data on part? It's a question.
13 We need to know the answer.

14 MR. DRAKE: Woe to those who gerrymander the
15 inspection effort. Woe to those.

16 PARTICIPANT: I'll second that.

17 MS. GERARD: Okay, so the answer is you have
18 to interpret --

19 MR. DRAKE: It's physically possible to do
20 that. You can't pass the red face test when you start
21 screaming. You are way out there now.

22 MS. GERARD: Okay, so the answer is yes, you
23 have to look at the entire inspection result. So what
24 you say we're asking you to do is leading to assessment
25 of the bulk of the system, and the cost of assessment

1 as well, and that is not our goal. Our goal was to
2 prioritize.

3 MR. DRAKE: The goal is to prioritize.

4 MS. GERARD: Okay. I just -- I had to ask
5 the question.

6 MR. KUPREWICZ: Let me add too, though, when
7 I was asking the question about the percentages. I
8 don't have an answer, nor do I care. I'm just using
9 that as a reality check on whether or not the HCA -- so
10 there isn't a preordained objective here to get
11 everybody to 90 percent or 100 percent. The question
12 is going to come up from the public, and it can be
13 answered, and it can be answered honestly.

14 MS. DAUGHERTY: Andy, I have a question.
15 Let's say, for example, and take your example just a
16 little bit farther. If you run your inspection tools
17 through, let's say 80 percent of your system, and let's
18 say the rule has gone through and identified your HCAs.
19 You will have results for a huge part of your
20 pipeline. That's good information. I think we all
21 would agree to that. You will be able to risk
22 prioritize those areas in HCAs first, so you will stack
23 that up, and that's where your assessment intervals
24 will be based on.

25 The other information outside the HCA, that's

1 good information to be acting on, but your priority
2 will still be for your HCAs. There's a question in
3 there somewhere.

4 MR. DRAKE: The management of the data, I'm
5 looking at ... as executives of the pipeline industry.
6 When you become aware, knowledgeable of that, it does
7 not matter if it's in an HCA or not, you are bound by
8 engineering and -- to action on that. I mean, so yes,
9 and no. No, when you find an actionable anomaly and
10 you don't action against it, I think you're exposed.
11 And our lawyers are over there shaking their head yes.
12 I think you're going to find that when the information
13 is discovered and it becomes precommitted on schedule
14 based on national consensus standards that drive what
15 diligence is.

16 MR. BARRETT: I think -- if I can get back to
17 -- my question to you is whether or not you would
18 prefer to be able to calculate that impact zone with a
19 given safety margin on that, as opposed to going to
20 these straight corridors?

21 MR. DRAKE: I think that you have to -- I
22 think this is probably where the slippery parts are.
23 The gas industry is very different from the liquid
24 industry, fundamentally. First of all, we move one
25 product, natural gas. We do not move butane, propane,

1 crude oil, jet fuel. We move one product. That
2 product has a very specific signature -- lighter than
3 air, burns at this rate and it creates a very
4 significant pattern, constant pattern. It's all very
5 predictable. And I think also that helps the gas
6 industry, is that the gas industry has a great deal of
7 data on people that live and actions that take place
8 inside this 660 or quarter mile wide corridor. And you
9 want to try to take advantage of that.

10 The liquid rule, as Mike pointed out,
11 fundamentally -- the consequence patterns are much more
12 elusive, and so the areas are much different shapes and
13 you have to be very conservative when you look at that,
14 and I think work. And I think the fact that they don't
15 have class locations also bodes the fact that they
16 don't have the resolution of data where the individuals
17 are inside these areas, so you switch to the census
18 data. Those are all logical things, you know.

19 You switch to the gas side, you want to -- I
20 think the goal should be you want to try to maximize
21 the use of that data and you want to maximize and take
22 advantage of the fact that you can profile the
23 consequences, and you want to couple those together. I
24 don't think the goal, really, is perfection. It's just
25 to try to identify places to focus. I think over-

1 arching our goal, as Dan martin said, is we don't want
2 any failures, anywhere, any time, period. What we're
3 starting with here is trying to divine a starting
4 place, not a level of acceptability on danger. That's
5 not the point at all. We're just trying to define how
6 much is a big enough first bite. That's it.

7 And I think you've got some operators --
8 you've got a very diverse operating environment,
9 different from the liquid. Liquid, the companies are
10 typically the same size. They're middle size --
11 compared to gas companies -- they're middle size
12 companies and there's a limited number of them. And
13 you look at the gas infrastructure, there's almost an
14 order of magnitude more operators. Some of them are
15 huge, much larger than the largest of the liquid
16 companies. Some of them, most of them, most of them
17 are very, very, small. They're the service operators
18 that provide gas to your house. And they're very
19 small. They don't have some of these data systems and
20 management tools, and you want to try to respect that
21 dichotomy.

22 So you may need, in order to deal with the
23 reality of this environment, an either-or. Either you
24 use a real simple tool, or you can use something that's
25 really precise. But you don't want to go to the

1 little, little operators and say you have to do this
2 really complex modeling. They're going to go -- it's
3 my wife and I and we don't have time to do that, you
4 know, man.

5 MR. ANDERSON: You're doing my presentation.

6 MR. DRAKE: That's good news. We're all kind
7 of coming together maybe here a little bit.

8 MR. ANDERSON: I was invited here to make
9 everybody else feel good. And I'm probably the least
10 qualified person to be sitting up here.

11 MS. GERARD: Who are you?

12 MR. ANDERSON: My name is Jim Anderson, and I
13 am the chair of the National Association of Pipeline
14 Safety Representatives, which is a state regulator for
15 pipeline safety. I did not get this position due to
16 the fact that I'm real smart or brilliant. I missed
17 the national meeting two years ago, and they voted me
18 in. That's the way it works. That's the way it works.

19 I've got a few people here that I do -- now I
20 know Mark, and I was on the LBC risk management group
21 along with Alan and some operators here. One of the
22 things that I am going to speak about is the difference
23 between inter- and intra-state facilities. Looking at
24 Mike's slides a while ago, he started out with a 12-
25 inch diameter pipe to come up with his PIRs and moving

1 on up to a PIZ and all these acronyms. I'm about a
2 3/8ths inch processor and four PIM whirl right now,
3 looking at something. That's just the way it works.

4 So I'm looking at some of this stuff and I'm
5 looking out really just for North Carolina. I started
6 out in 1979 as an inspector in Kansas. I went to
7 Oklahoma as a program manager. I actually used to be a
8 gas operator around a gas utility company for about
9 four years and then the state of North Carolina hired
10 me to be the program manager for pipeline safety. And
11 I was talking a while ago about I'm about as lost as a
12 goose in trying to read this and trying to understand
13 this. One of my concerns is, if I look at some of this
14 stuff and I question my operators, do they understand
15 it enough to know that I'm right or wrong? You can get
16 into some of this.

17 When I do my presentation, I'm going to show
18 there are some differences between inter- and intra-
19 state operations, and a lot has to do with size of pipe
20 and when it was constructed or how it was constructed.

21 But they're actually two different animals that I'm
22 going to talk about. Thank you.

23 MR. ISRANI: Anybody else on the panel?

24 MR. KUPREWICZ: I've got a question that
25 focuses on what I said earlier this morning on the

1 Moderate Risk Areas. It seems to me -- first of all,
2 I'll make a question statement first, and then a
3 question. My understanding is what's driving the
4 Moderate Risk Area definition is trying to avoid
5 accelerating timing of certain areas that may not fall
6 into some zone. And it's added for complexity that
7 everybody's going to have to calculate, whether they're
8 a big system or a little system. Is that what's
9 driving the Moderate Risk Area?

10 MR. ISRANI: Yes.

11 MR. KUPREWICZ: Okay, so the answer is yes.
12 And I'll play again, many of these folks are going to
13 go to direct assessment, whatever that means -- we're
14 in the codes and processes of trying to develop that
15 right now. So I describe that as evolutionary or in
16 its infancy. Yet to be determined whether that will
17 work. Hopefully it will. But the regulation says if
18 you use direct assessment, you've got accelerated
19 timing anyway. So if we're adding this complexity
20 that's probably scaring a lot of people, and changing -
21 - I can see me sitting in front of a management group
22 and I have to say, I don't know what the numbers are.
23 That's a position nobody ever wants to be in. If this
24 is adding some of that complexity and it's driven by a
25 timing issue, then one thing to think about would be

1 eliminate the Moderate Risk Area and change the timing
2 that has been set for the Moderate Risk Area back to
3 the same parameter time.

4 Is the Moderate Risk Area acceleration really
5 worth anything? Is it worth all this complexity? If
6 the answer is no, eliminate that concept as a
7 regulation concept and normalize the incentives to be
8 exactly what they are for the other technology. That's
9 a lot of words, but that's kind of what I see going on
10 here.

11 So I see micromanaging. I agree with Andy
12 here. I see some micromanaging going on, trying to
13 catch that last one or two percent. The reality is, we
14 don't know what direct assessment is. We think we do.
15 We hope we do, but we may be overstating its
16 advantages.

17 MR. ISRANI: I'll let Stacey talk and then
18 I'll give some answers.

19 MS. GERARD: Well, my questions was -- one of
20 the questions that was within the body of the preamble
21 was, should we consider eliminating the testing
22 requirement for those areas which, while they may have
23 been, while they may be existing Class 3 and 4, we now
24 know they're outside of the impact zone of the
25 explosion. The question -- we define these areas, but

1 we really were asking questions, is it worth bringing
2 testing? That's the question. So if you aren't
3 testing in them, does that change the balance of nature
4 here in terms of whether it's worth identifying them,
5 and then doing other types of activities in those areas
6 now that we know they're outside the impact area?

7 MR. KUPREWICZ: My perspective on the
8 Moderate Risk Area? The answer is no. It's adding a
9 lot of complexity. I don't see the gain. That's my
10 personal opinion.

11 MS. GERARD: (comment off mike)

12 MR. DRAKE: I think we've kind of got a
13 hybrid going on here, and that's part of the problem.
14 I think we fused the either/or together and came up
15 with some sort of hybrid crossbreed that doesn't serve
16 anybody. You're talking to one group, the small
17 operators, Class 3 and 4. Just do that. It's pretty
18 straight forward. Now, when you look across the room
19 and you start talking to other operators and say Class
20 3 and 4 is a very crude tool. It's 30 years old, it
21 uses sliding miles, incidents don't happen on miles
22 basis. People -- it's a very crude and rudimentary
23 tool. But it's very doable. It's a known.

24 Now, when you start switching gears and
25 here's where we ran into the problem. When you switch

1 gears and you start saying, but that's not really where
2 the people are. There's this model, these circles,
3 these impact zones. We can move them around and find
4 where the people are. Shouldn't we do that? Well,
5 yes. When you start doing that you start seeing that
6 the old tool is real rudimentary. It's a big blob.
7 Now you're seeing places inside the class that's where
8 the people are and you're also finding where the people
9 aren't.

10 And I think the past ... test, when you start
11 doing that, you've got to separate the two. Either do
12 it this way, Class 3 and 4, or you do this circle. But
13 when you do the circle, to pass the ... station, you
14 shouldn't be doing the circle just to decide the Class,
15 you should be looking around to where the Class schema
16 might have worked the other way also, where it missed
17 people that were grouped together, but there weren't
18 enough people to get across the mile hurdle. If you're
19 going to use the complex tool, you've got to step up a
20 little bit more.

21 But we kind of merged those ideas and came up
22 with this hybrid MRA thing and it's like, well, what do
23 we do with that thing? That's some sort of a mating of
24 a beaver and a cat. I don't know what the hell
25 happened there with that thing. I mean, you know, we

1 like beavers and we like cats, but we don't really like
2 that middle thing. And I think that's what you've got
3 here is you've got -- when you look out here at the
4 MRA, you've got that hybrid thing. You've got two
5 people out there. You've got two people out there in
6 this MRA. Well, two people? What are we talking
7 about? You've got this hybrid thing and we need to
8 distill that. We need to separate the two options from
9 one another.

10 MS. GERARD: Did I hear you say, now that we
11 have a more sophisticated tool, the impact zone, go
12 either or. Either use the Class location or use the
13 tool over the entire pipeline?

14 MR. DRAKE: (answer off mike)

15 MS. GERARD: Okay, well, let's just -- that
16 was Andy Drake from Duke. Oh, you couldn't hear him.

17 MR. DRAKE: Andy Drake. I think that there's
18 two presentations here that you just maybe ought to let
19 them present, because if they're going to answer --
20 we're sort of hedging on the answer to your questions.
21 We're dancing all around. Great segway.

22 MR. ISRANI: I just briefly want to say
23 something. One of the questions asked by Risk, how
24 much of the HCA, percentage-wise, we are expecting by
25 this rule? We did a cost benefit analysis and we find

1 42,000 miles, from our estimate, will be affected by
2 this rulemaking. 42,000, roughly, miles out of 300,000
3 miles of transmission pipeline. That's roughly 12
4 percent of the pipeline.

5 MR. DRAKE: Run through that again, please?

6 MR. ISRANI: Our calculations -- our
7 estimates show that about 42,000 miles of pipeline that
8 fall in the High Consequence Area, from the
9 transmission pipeline, out of 300,000.

10 MR. ANDERSON: Interstate or inter- and
11 intrastate?

12 MR. ISRANI: Together. All together, yes.

13 MS. DAUGHERTY: Mike, you said that the
14 42,000 is just the estimate for the segment of pipes
15 inside the HCA. That doesn't include the extra pipe
16 between valve sections or anything like that?

17 MR. ISRANI: No, it does not. And we could
18 ask some other questions, also, but because we are
19 running short of time, we're going to have Daren Moore
20 give his presentation and when we have some time in
21 between, I'll answer some questions. So, Daren Moore,
22 please.

23 MR. MOORE: If someone cannot hear me, please
24 raise your hand and I'll try to speak louder. 30 to 40
25 minutes, we have a lot of material to cover. It's an

1 incredibly complex rule. High Consequence Areas is an
2 incredibly complex as it's currently written, area to
3 discuss. So I'll move through it as quickly as I can.

4 Rick, I appreciate your candor this morning.

5 You made some excellent points. The question I've
6 just now heard raised some other good points. I think
7 most of them are going to be addressed in the next 30
8 to 40 minutes. There's a lot of issues here that I'm
9 going to try to get on the table, and hope I'll make it
10 simple enough that we can all understand it. That's my
11 goal as we move through this.

12 We heard the pipelines are the highest
13 performing transportation mode. Good news. That was
14 last year. Outstanding news. It's tough to improve on
15 that, but as Dan Martin said, it's our goal to do it.
16 And we're going to do our very best to do that. This
17 presentation is a step towards improving pipeline
18 safety, but by itself, when I do it, it's going to take
19 a comprehensive rule to accomplish those goals. And
20 this presentation is part of that comprehensive rule.

21 Since it is a long presentation, I have an
22 outline. I'm going to describe the industry work in
23 defining HCA. We started that work in 1999,
24 recognizing the issue and going forward. It's not
25 something that just happened in the last year. It

1 started in 1999. I will then discuss the January 28,
2 2002 NPRM as it applies to HCAs in some detail. I'll
3 quickly discuss the intent of what the HCA definitions
4 are, and then rubber meets the road. You've asked for
5 specific proposals -- Stacey asked for specific
6 proposal back. I'll make that in the discussed
7 proposed industry definition. And finally, I'll
8 compare and contrast the OPS and industry approaches in
9 concluding.

10 The question becomes -- we do have some over-
11 arching goals here that we've talked about. Industry
12 believes that number one, absolutely we have to have
13 credible science as a goal in this rulemaking -- and
14 Rick mentioned that as well from the public's
15 perspective. We want to address most of the people
16 along the pipeline. In the Q and A a moment ago, Andy
17 mentioned that we address approximately 70 percent of
18 the people who live along the pipelines in the proposal
19 we're about to hear. And three, we want to address a
20 significant part of the pipe, but we want it to be
21 focused enough that we're not wasting resources.
22 Address as much pipe as we can, make it focused. Those
23 are our over-arching goals.

24 So the question is, how do we define HCAs?
25 And the work in 1999, it led to a pure technical

1 approach. We'll call it the C-FER circle -- we're
2 going to see it a few times later. Out of that became
3 an empirical model, validated with real data. They had
4 questions about the assumptions that go into the C-FER
5 modeling, how it may not fit in. We have real data
6 which validated the C-FER circle approach. That led to
7 the INGAA-AGA proposed definition in 2000, referenced
8 in the docket comments. And we were very pleased to
9 see OPS incorporate some of the best ideas in the NPRM.
10 They incorporated the C-FER methodology, the C-FER
11 circle in the NPRM, but not in a holistically enough
12 way. We have a proposal that will help address that.

13 The C-FER model is based on, as Andy
14 mentioned a moment ago, based on the fact that natural
15 gas behaves very predictably upon release. It's
16 lighter than air. It goes up. When it releases, you
17 can model the energy inside the pipeline. The model is
18 based on the pressure, MAOP, and the diameter, and it
19 comes out with the equation we'll see later.

20 After we determined that these were the
21 overriding factors, and then started looking at the
22 detailed factors, we asked C-FER to do the math behind
23 it. They came up with the equation that we'll talk
24 about in a moment, and then the rubber met the road,
25 and we said how does it look in the real world? Does

1 it work or does it not? Are we right or are we wrong?

2 The model validation, we looked at three
3 Canadian incidents on the top, TSB are Canadian
4 incidents, and we looked at a variety of NTSB
5 incidents. Initially we kept it to this population
6 area, this group of incidents, because that's where the
7 best data was. The NTSB and TSB went out and literally
8 chained off how far away things were. You look at the
9 black lines on each one. Those are the proposed HCA
10 radiuses, and you look at the maximum offset to burn
11 extent in the blue. You notice that in all but one
12 case, it's less than what the predicted -- than what
13 the model predicted. Look at the green equivalent
14 radius of burn area, then go down to offset the injury
15 and fatality in yellow and red, and note that the model
16 performed remarkably well when calibrated against
17 actual data determined in the field. Because the model
18 works is the underlying thing.

19 And we heard a while ago, Rick say the model
20 had to work, the science has to work. It does in this
21 case.

22 We went ahead and put together a slide here
23 showing what a rule would look like if we -- for High
24 Consequence Areas -- only if we used the C-FER circle.
25 I know you can't read it very well, but it

1 incorporates the circle going across the entire
2 pipeline system. It incorporates 20 or more structures
3 inside a circle, triggering the HCA, and it also
4 includes any identified site. The identified site
5 definition is very similar to what was in the final HCA
6 rule published on August 6, 2002 -- and you can see
7 that up there. It incorporates the PIZ and the PIR,
8 and that's where the equation comes into play. So the
9 bottom half of that slide is just the boiler plate
10 stuff pulled straight out of the final rule of August
11 6th. The identified site definition is extremely close
12 to August 6th. It's applying it to a scientific,
13 validated circle as opposed to class locations and
14 things such as that.

15 I've prepared a flow chart for what the pure
16 circle would look like. You can see it's pretty
17 simple. Start at the top, you determine what your
18 radius circle is. You apply the radius to the entire
19 pipeline system, and then inside those circles if you
20 have 20 or more structures intended for human
21 occupancy, or an identified site, if you do you have an
22 HCA. If you don't, it's not an HCA. Stacey.

23 MS. GERARD: (question off mike)

24 MR. MOORE: Every foot of pipe -- I'll answer
25 the question by stating the question. The intent here,

1 when it says go down the entire pipeline in the second
2 rectangle, you would go down the entire pipeline
3 including all classifications -- Class 1, 2, 3, and 4 -
4 - and all the pipe that you had. It would not be
5 limited by anything, because you're looking
6 scientifically at all of the pipe.

7 We also took a look at the hazard area, and
8 you'll note the third one down had an orange -- that is
9 a 30 inch pipe, and if you look at the 1000 pound
10 vertical line, it crosses the 660 almost exactly. It's
11 interesting that that would happen because the 660
12 corridor was determined back in the sixties and by
13 empirical data, guys who went out -- pipeline safety
14 folk went out looked at incidents, and they said, you
15 know, 660 makes sense. When you do the model, and
16 after you finish with the model that was determined
17 scientifically and try to validate it, it works almost
18 precisely at 30 and 1000. Why 30 and 1000? Because
19 that was practically the biggest pipeline that the
20 United States had in the mid-1960's. It's amazing how
21 closely this stuff works.

22 That brings us to a big issue. For me to
23 shift gears and take a look at where the NPRM is right
24 now. There are a lot of positives that we mention in
25 the NPRM and there are only three or four major issues.

1 The biggest is probably the HCA definition. We spent
2 almost the entire morning talking about that. The
3 problem with the NPRM that we see -- and I'll call them
4 issues are:

5 The NPRM in many cases is not technically
6 based. That flies in the face of one of industry's
7 over-arching goals. It also flies in the face of what
8 Rick said this morning is the public's perspective.
9 That's important. It's extremely complex with many
10 variables, and I'll show you some slides displaying
11 each of these in a moment.

12 There are many conflicting and inconsistent
13 solutions. Mike had some slides a moment ago, I'll
14 show you some more that will show you some areas where
15 Mike's ideas certainly make some sense on the surface,
16 it's an amalgam of good ideas. There's some gaping
17 holes and inconsistencies we need to make sure aren't
18 there when we get done.

19 Extremely burdensome for low pressure
20 systems. The small impact of low pressure and small
21 diameter systems is not recognized inside the existing
22 NPRM. Data on houses is not readily available outside
23 the existing 660 foot corridor, so we have a massive
24 data issue if we go down that path, which will cause a
25 lot of resources to go to collecting data instead of

1 inspecting pipe. And that's not what we want. It's
2 not what industry wants. It's not what the public
3 wants. It's not what OPS wants.

4 The language is inconsistent with other
5 language in the existing natural gas pipeline safety
6 regulations. I'll display that. The proposed HCA
7 definition is inconsistent with the liquid rule.
8 Empirical ... is difficult to look for, there are also
9 some intrusive issues involved in trying to figure out
10 who is inside the structure.

11 And finally, operator compliance is going to
12 be extremely difficult in some parts of the NPRM and in
13 some instances, it's going to be impossible to apply.
14 And that is not what the public wants; it's not what
15 OPS wants; it's not what industry wants. We want
16 something we can comply with, something that improves
17 pipeline safety. Those are our over-arching goals.

18 Let's get into some of the details. In the
19 not technically based section, we saw one of the slides
20 that when your PIR extends past 1000 feet you need to
21 add a 15 percent addition to the C-FER equation. That
22 15 percent is arbitrary and it is not based on science.
23 We showed in a couple slides a while ago, the
24 validation of the model. The model works as it is. We
25 do not need a 15 percent addition to make it work

1 better.

2 The threshold radius is arbitrary and not
3 based on science. That's the TR you may have seen.
4 I'll show you some examples in a moment. If you have a
5 PIR of 320 feet, you're going to be looking out to 660
6 feet because the 320 is over 300. That threshold
7 radius is not based on science. We're going to show
8 some real life examples of we're going to have to look
9 at over 95 percent more ground than outside the circle
10 of impact, and that's not the way we want to be going
11 forward in this rule.

12 The use of class locations is not the best
13 scientific solution available today. It's a good
14 solution, and for the smaller operators who don't have
15 the time, the mom and pop outfits, whatever you want to
16 call them, that don't have the time to do all the
17 science, we're going to propose a solution that allows
18 them to use the class locations very similarly to the
19 August 6th final HCA rule, but we're going to have a
20 bifurcated approach, where they can use the circle and
21 the science as well if they so choose and really dive
22 into that data and make it right.

23 And finally, the use of 20 or more buildings
24 -- we see that in the existing NPRM -- that's a good
25 idea, folks. Makes a lot of sense. There's a lot of

1 different ways you can come to 20 structures being the
2 right answer. There's some talk about ten. There's
3 some talk about 46. Twenty, we think, makes a
4 difference -- I'll talk about that in a moment.
5 Unfortunately, it's only applied to PICs greater than
6 1000 feet. It should be applied everywhere. So that's
7 not based on science, and we'll show how that works.

8 Talking some more about the 20 or more
9 buildings. We discussed a moment ago it should be
10 applied to the entire pipeline, regardless of circle
11 size -- 20 or more buildings I'm discussing. The NPRM
12 says that the PIR greater than 1000 feet, the operators
13 should examine the PIC for 20 houses. That's a good
14 thing, again, it's not inclusive enough. It's not
15 holistic enough. The existing hazardous liquid HCA
16 definition utilizes 20 houses if you base it on that
17 1000 people per square mile. Drive your way through
18 the math and use the 660 circle and the existing
19 corridor, and the existing natural gas pipeline safety
20 regulations, it comes to, assuming 2.5 people per house
21 which is what OPS intuitively agrees to, it comes to 20
22 houses. It's interesting OPS would derive the 20 here,
23 INGAA in heavy deliberations three years ago, arrived
24 at 25. We're very close. Those numbers make sense.

25 Further, I want to talk about ten houses and

1 I want to go down -- ten houses inside the circle and
2 46 houses inside the circle. That's essentially the
3 boundaries we have around this discussion. If you go
4 with 20 houses, you're going to be looking at about 70
5 percent of the population along the pipeline. That's a
6 good thing, and Rick said that earlier. You're going
7 to be looking, in the pigging side, at about 80 percent
8 of the pipe if the operator chooses to pig in a big
9 way, and many operators are as a result of this rule.

10 If you went to ten houses inside the circle,
11 what would happen? You'd bring in massive amounts of
12 Class 2 pipe and greatly expand the scope of this. You
13 bring in large amounts of Class 1 pipe, and again,
14 greatly expand the scope. This would result in
15 unfocused inspections and loss of impact of the rule.
16 We would not be focusing our resources where we want to
17 to improve pipeline safety.

18 To show how 20 should be held constant, and
19 not range depending on circle size, this slide here,
20 the left hand circle has a PIR of 1009 feet, and it has
21 20 houses inside it. We would be offering additional
22 protection to the 20 houses inside that circle,
23 regardless of the circle size. It's an absolute number
24 of people we want to offer additional protection to.
25 The second circle, the R is let's say, 660 feet.

1 Again, 20 houses inside that circle you want to protect
2 -- additionally protect above and beyond the existing
3 successful pipeline safety regulation, those houses.
4 And if the circle were 300 feet in radius, if it had 20
5 houses in there, we ought to be protecting --
6 additionally protecting those sites as well. So it's a
7 constant number of protection. It's not a rating or a
8 sliding scale.

9 The complexity side. A group of us sat down
10 a few weeks ago and tried to figure out what the
11 existing NPRM said. 192.761 in (A) talks about Class
12 3. (A) talks about Class 3, (B) talks about Class 4,
13 (C) is identified sites for four inch or lower pipe,
14 (D) is 30 inches or larger -- or vary 30 inch pipe, (E)
15 is everything in between, and (G) is when you have 20
16 or more buildings for the really big pipes over 1000
17 feet. It's kind of complicated. I'll go through this
18 quickly here.

19 This is what an operator winds up looking at.
20 Gee, how do I figure out where my High Consequence
21 Areas are? I've got all these different shapes and
22 colors and personally, I'm getting phone calls from our
23 field based guys asking me what in the world are they
24 looking for? And I ... a presentation for them, very
25 clearly for a couple hours, walking through this. This

1 is complex, and I don't think any operators fully
2 understand what this stuff has.

3 I created then a flow chart for what the
4 existing NPRM definition looks like.

5 PARTICIPANT: You've been talking to Rick --

6 MR. MOORE: No, I've never met Rick before
7 today, honest truth. I'm sorry you can't read it.

8 PARTICIPANT: It doesn't matter.

9 MR. MOORE: It doesn't matter. It's complex,
10 yes, it's complex. Okay, let's get into a few examples
11 of how this thing can work. These are tying off some
12 of the stuff that Mike said before.

13 In this case you have a 30 inch pipe at 1050
14 psig -- I'm not making this stuff up. There's an
15 operator in the room, he's sitting two people over from
16 me -- he has about 13,000 miles of pipe in one of his
17 systems. About 8000 miles of that pipe is a 30 inch
18 pipe with an MAOP of 1050. This is a real life
19 example, guys, so bear with me for a moment. PIR of
20 this pipe, 671 feet. In the existing NPRM, if you had
21 an office building 350 feet away from the pipeline
22 housing 50 people -- 50 people in that office building,
23 you would not be an HCA. Under the existing rule, even
24 though the PIR is only 671 feet, if you had a licensed
25 day care with say, three people in it, at about 590

1 feet or whatever from the pipeline, it is an HCA, even
2 though the PIR is 50 percent less than that.

3 Another example. Again, we have a 30 inch
4 pipeline at 1050, and then -- on the left side, and
5 then 1000 on the right side. On the left side, 20
6 houses within 1000 feet would be an HCA, even though
7 the PIR is only 651 feet. On the right side, you have
8 35 houses within 660 feet, yet it's not an HCA.
9 Inconsistencies and we're not providing equivalent
10 protection along the pipeline. We should be.

11 Another example. Again, going back to the
12 Duke Exsel (ph) pipeline, left side, 20 houses in 1000
13 feet is an HCA. If you have a building of 50 people
14 inside it's not an HCA.

15 And one last example. I'll be quick on this
16 point. Left side, Class 3 with 46 houses is an HCA.
17 Right side, it's Class 2 and only 45 houses, one less,
18 it's not an HCA. Now you have to draw the line
19 somewhere, and I recognize that, but that's the way the
20 actual NPRM works.

21 Give you a table. I got tired of pictures,
22 decided to put a table in this time. You can see you
23 have a 30 inch pipe at 1000 pounds -- in the yellow I'm
24 talking about -- with a 655 PIR, so your PIZ in the
25 existing NPRM is 660 feet. Very reasonable. If you

1 have a 30 inch pipe with 1020 -- let's say 1050 in the
2 real world MAOP, the PIR then is above 660 so your
3 threshold radius, the PIZ jumps out to 1000 feet.
4 Guess what the rule then says you have to do? You have
5 to go out and gather enormous amounts of data from 660
6 to 1000 feet, even though your PIR, which is proven and
7 validated, by science and by field experience, would be
8 only say over 660 feet. That's inconsistent. It's not
9 where you want to go down with this rule.

10 Another example here, if you look at the 16
11 inch pipe on the left, and the 20 inch pipe. One has a
12 292 PIR, the other has a 338. Look what happens to the
13 PIZ though with a 300 foot cutoff. The 16 inch 700
14 pound pipe with the 292 PIR only goes to 300 PIZ.
15 Pretty consistent. Makes some sense. The 20 inch pipe
16 at 600 and 338, jumps out to 660 feet. You're talking
17 about 95 percent more stuff for no safety benefit.
18 Inconsistent. Yes, Jim.

19 MR. ANDERSON: For my presentation, remember
20 this, because I'm going to come back intra-state
21 transmission, and a lot of intra-state transmission
22 pipelines -- they don't have 10 inch diameter. A lot
23 of them are ten, eight, six, four, three or two. So
24 they're going to be encompassing even more. So look at
25 those numbers and see where it's going to impact the

1 intra-state operators more directly.

2 MR. MOORE: Thank you, Jim.

3 MR. ANDERSON: I've got a couple ... I've got
4 to get in. During our technical difficulties time --

5 MR. MOORE: Jim and I don't know each other
6 either, for the record.

7 MR. ANDERSON: I'm just going to make him
8 look good.

9 MR. MOORE: I appreciate all the help I can
10 get, Jim. On the data issues. We need to move through
11 this stuff. Industry has collected house data since
12 1970, out to 660 feet from pipeline. We've also
13 collected small, well-defined outside area data out to
14 300 feet on pipelines since 1970. Those two are
15 required by the regulation and we've done it for years
16 and we're actually good at it. Over that time, we have
17 very precise data for those numbers. Collecting house
18 data, however, out to one year -- or within one year
19 out to beyond 660 feet, say the example of 30 inch and
20 1050 pipe, we have to go out to 1000 feet, is
21 completely unrealistic. It took us 30 years to do
22 this. This is not the right way to go.

23 And finally, collecting data essentially
24 beyond where the existing national gas pipeline safety
25 regulations say will create an undue burden on

1 operators, will make the rule shift resources to data
2 collection from inspections, and that's not what we
3 want.

4 Language consistency. Talk about identified
5 sites. I think identified sites are a good thing.
6 Industry does as well. I think Rick does also. He
7 addressed them a couple different times in his
8 presentation. The identified site definition includes
9 buildings, the existing pipeline safety regulations
10 intentionally does not, because it's a vast scope right
11 there, you have to go out and find this data. It also
12 talks about 50 days a year, instead of five days a week
13 as the regulation currently has it. Sounds innocuous
14 on the surface, it didn't sound that bad, but the way
15 it works in the operator world when they're trying to
16 comply, is that 50 days a year means I have to look
17 maybe 316 days and determine nobody was there, instead
18 of looking for ten weeks. All of a sudden, the
19 compliance costs go way up and are we really adding
20 value? Five days a week is 50 days. I'm not sure
21 we're adding value by doing that.

22 Twenty persons is not consistent with
23 hazardous liquid HCA definition -- that one calls for
24 50 persons as I described a while ago. And going back
25 to how many structures -- you can arrive at ten

1 structures inside a circle if you take an evenly spaced
2 Class 3 at the minimum threshold to drive a Class 3 of
3 46 houses, but that doesn't address the reality of
4 population distribution. The reality is is that it
5 doesn't work in an evenly spaced way. And so that ten
6 becomes a very conservative threshold that usually
7 expands the scope but doesn't add value. So we need to
8 be very careful about using that argument on a go
9 forward basis.

10 Okay, we talked about the existing NPRM. Now
11 let's talk about what the goal is and then we'll talk
12 about our proposal. The law says we need to conduct an
13 analysis of the risk, the facility locator identified
14 and show a document, implement or written integrity
15 management program for each facility to reduce the
16 risk. That's what the law that was passed on December
17 17, 2002 says.

18 The NPRM preamble that just came out says
19 establish a rule to require operators to develop
20 integrity management programs for gas transmissions
21 pipelines that, in the event of failure, could impact
22 High Consequence Areas. And we talked about the
23 industry's goal as being broad requirements. They are
24 and they have been consistently, for years, that any --
25 going back to 1999 and 2000 when we first started

1 really discussing this -- any determination of an HCA
2 or any inspection requirement should be technically
3 based. Your requirements should, to the extent
4 practicable, follow existing practices. They've been
5 proven successful. Let's build on them, not throw them
6 away -- processes used by the industry.

7 And finally, we want to make maximum use of
8 existing house data. The circles -- pure circle
9 approach or modified circle approaches do that. We
10 still believe that this is the right answer going
11 forward.

12 So that brings us to the alternate INGAA-AGA
13 proposed definitions. We talked about pure approach at
14 the very start of this presentation, the pure circles.
15 We recognize the pure approach is not practical at
16 this time. Yet rules that are proposed -- we have a
17 final rule out there already -- so the proposal we're
18 about to make is going to bridge the gap of regulatory
19 practicality with the science of identifying High
20 Consequence Areas within the confines of the law. Also
21 within the existing regulations, and a historical
22 application of those regulations.

23 This is the flow chart for the industry
24 proposal. It has quite a bit of stuff up there. Very
25 carefully, it's a bifurcated approach. You see the

1 start button in the circle makes the word definition.
2 Pretty much almost everything to the left of the start
3 circle is one way of identifying HCA. Pretty much
4 everything to the right -- underneath it and to the
5 right is another way to identify HCAs.

6 To the left is based on Class 3 and 4, the
7 first diamond says, Class 3 or 4, question mark. The
8 answer is yes, bang. It's HCA. If the answer is no,
9 you do your circle, and you start working your way
10 through it. And it looks very closely to the final
11 rule issued on August 6, 2002. The left side of this
12 looks very similar. It includes identified sites. It
13 has Class 3 and 4. It's very close to what the final
14 rule had and that INGAA commented very positively on
15 when it came out.

16 On the right side, you talk about the pure
17 circle approach, giving the operator the option of
18 going one way or the other. You define the circle, and
19 then you start looking inside that circle, and there's
20 a variety of things in there to make sure that you're
21 catching everything as best as possible. I won't go
22 into gross details here, but it's a bifurcated
23 approach. It allows the use of the existing data. It
24 allows the use of the scientifically based and
25 validated circles. It also allows smaller operators or

1 those to choose to use existing Class 3 or 4 stuff if
2 they choose to go down that path. It offers something
3 to everybody. It's based on C-FER. It's either what
4 OPS said in the final rule, and offers even better
5 protection on all the pipe, based on science. Take the
6 right side, you're looking at every foot of the pipe.
7 Stacey.

8 MS. GERARD: You need to go over it again
9 Daren, because we can't see what's up there, and be
10 clear -- you said if you went to the left, Class 3 or
11 4, the answer is no, it sounded like you then went to
12 the right. But I heard you say there's a choice for
13 the operator. Is there a choice?

14 MR. MOORE: I'm going to -- if you want me to
15 spend the time and walk through it, I'll be glad to do
16 it. Very good. I intentionally stayed away from that,
17 if we need it, I'll do it.

18 You start here -- I don't like these things,
19 they make you look like you're really nervous. I'm
20 just standing here guys, just talking. I'm a talking
21 head. Start here, and you go down and the first
22 question you ask is are you going to use class
23 methodology or are you going to use the C-FER circle
24 methodology? If you go circle, and right there it
25 says, PIC circle and right there it says Class. Can't

1 see it, I know, but that's what it says.

2 If you go down the PIC side -- if you choose
3 to go down the class methodology, you go this way.
4 Once you go down this line, you never come back over
5 here. Okay? It's a true bifurcation. You go down
6 this way, is it in Class 3 or 4? If the answer is yes,
7 it is an HCA. If the answer is no, you define your
8 circle. Is the circle greater than 300 feet or less
9 than 660 feet? Now why would we ask that? The answer
10 is we recognize that our existing data for identified
11 sites, largely identified sites, and identified sites
12 it actually expands on the class location definition
13 currently in the regulation.

14 You only go out to 300 feet. I mentioned
15 that a while ago. We have looked past 300 feet. This
16 is a bonus plus, if you want to compare and contrast
17 and see the delta, this is a big delta. You're getting
18 more identified sites, bigger definition inside 300
19 feet, and you're collecting on whatever your circle
20 size is outside. It's a big deal. Is it bigger than
21 300? Less than 660? I can't read it either guys. If
22 the answer is no, then you ask if it's less than 1000.
23 If the answer is no, then it's no HCA. If the answer
24 is yes, you have to go to the language which we're
25 after that has a D in it, and that shows you no HCA or

1 HCA depending on whether or not that's in there.

2 Coming back over here, at this point, if the
3 answer is no, -- the answer is yes, I'm sorry. If the
4 answer is yes, you've got identified sites inside the
5 circle, the answer is yes, it's an HCA. And that
6 identified site, again, goes beyond 300 feet if the PIC
7 is bigger than 300 feet. If the answer is no, it's no
8 HCA.

9 Now, come back over to the circles. You
10 define your PIC size. Is the PIC less than 660 feet?
11 If the answer is yes, are there 20 or more buildings
12 inside the PIC? And if the answer is yes, you have an
13 HCA. If the answer is no, you then ask the question,
14 is there an -- just one -- identified site inside the
15 circle. If the answer is no, there's no HCA. If the
16 answer is yes, it is an HCA.

17 Okay, come back to the circle being less than
18 660 feet. If the answer is no, is the identified site
19 inside the circle? This is where the circle is bigger
20 than 660 feet. If the answer is yes, it's an HCA. If
21 the answer is no, then we have a prorating idea here
22 for SIHO to be related back to the area of the PIC to
23 the radius of 660. What this does, and this is SIHO is
24 a building -- Structure Intended for Human Occupancy --
25 it's a building. I'm mimicking the existing pipeline

1 safety regulation and say SIHO. This is -- prorating
2 is key.

3 Let me describe it for a moment. The idea is
4 you have a circle of 660 foot radius, and we know
5 what's inside that circle. We've been counting houses
6 and looking for houses for years. If the PIC is
7 greater than 660 in lieu of spending enormous resources
8 and going out to whatever distance it may be beyond
9 660, 675 or 1200 feet, it would make some sense to
10 prorate what you're looking for inside the 660 circle.

11 In other words, if your area of your PIC is 1000
12 compared to 660, let's say that's a 3:2 ratio, you
13 apply the 3:2 ratio to the 20 structures we've
14 discussed, so if you had, let's say, 14 structures
15 inside the existing 660 circle, then that would trigger
16 the HCA. It's a way for operators to stay away from
17 having to gather enormous data and misdirect resources.

18 MS. DAUGHERTY: I was going to ask, Daren, if
19 that assumes that the houses are evenly distributed
20 between that radius -- around that radius. The
21 proration makes an assumption that they aren't all at
22 the edge or --

23 MR. MOORE: There's a built in assumption
24 there, Linda, and there comes a time in this analysis
25 where we have to use the built in assumptions. We

1 tried to make it simpler in the existing NPRM by going
2 out to 300 or 660 or 1000 feet to the threshold radius
3 and that's a massive assumption. This is a smaller
4 assumption, but it is one.

5 Okay, I'll try to say this again. I probably
6 didn't say it well because I wasn't planning on talking
7 about it in detail so I didn't prepare myself real well
8 for this. If you have a circle of 660 feet, you know
9 the radius is 660. You know what your data is inside
10 that circle because you've been gathering it for years.

11 For that particular pipeline it has a PIC of let's
12 say, 1000 feet. In lieu of the pipeline operator going
13 out and spending a lot of effort gathering data from
14 660 to 1000, what the operator could do instead is to
15 say okay, the ratio of the area -- let's say the area
16 of the 1000 foot circle compared to the area of the 660
17 foot circle, let's just say 3:2. We agree that 20
18 structures is the number to use for the triggering of
19 an HCA, right? So we'd apply 3 over 2 to 20 over
20 something and that something would be, let's say, 14
21 houses. So if you had 14 houses inside the 660 circle,
22 that would trigger the HCA, instead of the 20 houses
23 triggering the HCA. I could go over there and scratch
24 it on the board if you want me to.

25 MS. DAUGHERTY: I understand what you're

1 saying.

2 MR. MOORE: Okay, any other questions on
3 that? That's how the flow chart would work for the
4 INGAA-AGA proposal. Paul?

5 MR. WOOD: Paul Wood with CYCLA (ph). If I
6 understand, though, the left hand branch, correct me,
7 I'm accepting that this is a proposal, so if I
8 understand, the left hand branch correctly, you're not
9 dealing with anything less than 300 feet or between 660
10 and 1000, the way your diagram is put together?

11 MR. MOORE: The way the logic diagram is put
12 together -- I put this together a few weeks ago, it
13 winds up having, Paul, is that you look for identified
14 sites, and the definition of identified site is bigger
15 than just the regulation definition, we're going to be
16 looking for more sites than what we already had inside
17 300 feet as well. That is a flaw in the flow chart
18 because I did it a few weeks ago and we discussed at
19 INGAA-AGA. There's a debate of whether you should look
20 for identified sites all the way to your PIC radius
21 regardless of prorating -- for identified sites, yes.
22 There's an argument for that. Good point.

23 Moving on. Here's some examples of how the
24 alternative proposal would work as opposed to what we
25 just showed you on the NPRM. I have a yellow line

1 right there, and that is the PIR for this particular
2 pipe. This is going back to Duke Pipe, 30 inch, 1050
3 psig. In this case, you have an office building with
4 50 persons, it would be an HCA, and that is different
5 from what the NPRM has. You have the licensed day
6 care, 950 feet from the pipeline, it would not be an
7 HCA now, and that is different from what the NPRM
8 currently proposes.

9 Again, using the example we just saw, you can
10 see that the lines drawn across where the PIRs were
11 actually were used, on the left side, the 20 houses in
12 1000 feet would not be an HCA now because many of the
13 houses are outside the PIC, and they would not be
14 affected by a pipeline failure. On the right hand
15 side, you have an inside the 660 thresholds and it
16 wouldn't go out to 1000 feet under the NPRM and that
17 would be an HCA, and that is different from the NPRM.
18 Again, what we're trying to do is show consistency in
19 application. All houses are equal. We're going to
20 treat them that way. That's different from the way the
21 NPRM treats houses. They have been treated separately
22 depending on where the circle is and the threshold
23 radius.

24 Third example, you see the line for the PIR,
25 20 houses in 1000 feet, is now not an HCA, and that is

1 revised from the NPRM, that on this left hand side
2 would be an HCA under the NPRM. Again, the right hand
3 building of 50 persons, now would be an HCA under the
4 industry proposal, and that would be revised from the
5 NPRM which would not have that as an HCA. And the
6 final example, on the left side you have Class 3 with
7 say, 55 houses, and that is an HCA under both proposals
8 if they're both within the PIC, and as it's drawn it
9 is. On the right hand side, you have Class 2 with 35
10 houses and that would be an HCA. It would be a
11 revision from the NPRM, so you're consistently applying
12 the rule for the entire pipeline as opposed to mixing
13 and matching and guessing and hoping you have your
14 diamonds right and all that.

15 Okay, so let's close by contrasting the
16 benefits for the industry's proposal. One, it examines
17 every foot of pipeline for HCAs, every single foot,
18 Class 1, 2, 3, and 4 gets examined under the industry
19 proposal.

20 Two, it extensively uses data developed over
21 30 years to precisely examine land use for true HCAs.
22 And it would do it in a manner that looks for both
23 structures and identified sites.

24 Finally, it enables operators to evaluate the
25 entire system for HCA on much higher resolution,

1 regardless of plat. You're looking at a very high
2 resolution way. This is much different from the
3 hazardous liquid rule, and that's because the
4 predictability of gas upon release is extremely, for
5 lack of a better term, modelable. We have a model that
6 pictures it very well and it's very predictable. We
7 need to use that advantage if it makes sense, based on
8 science. We use science, proven by field experience,
9 to the greatest extent possible in the industry
10 proposal. That's one of our over-arching goals in the
11 industry, use science that's credible, and by showing
12 that the model works in the real world, it's credible.

13 Second bullet, it treats all areas the same.
14 In other words, 20 houses equals 20 houses, regardless
15 of the class location. We need to offer additional
16 protections to the places that need it. Places that
17 have the density, and not mix and match and offer it --
18 well, these 20 houses yes, and sorry, those 20 houses,
19 no. That's wrong. That's wrong. We need consistency.

20 Existing processes are maximized without the
21 loss of pipeline safety. Go back to our five days a
22 week instead of 50 days. It worked in the past, that
23 process that all of our fuel guys are doing and
24 gathering every single day and continuing into the
25 future.

1 The focus, under the industry proposal is on
2 inspections of pipelines. That's where the safety
3 benefit comes from. It's not in identifying HCAs.
4 It's on the inspections themselves. So the focus is on
5 the inspections, hopefully would be. Hopefully
6 wouldn't be on gathering large amounts of data to
7 define the central HCAs -- grow on that and not throw
8 out what we have.

9 Finally, the -- no, not finally -- the
10 proposal is not confusing in application, pretty
11 simple. We think the public can understand it. We
12 think the regulatory community can understand it,
13 federal and state, and we think operators can
14 understand it. Big advantage. It addresses structures
15 ... buildings through usage levels, not incident and
16 frequently what will turn out to be intrusive data
17 collection.

18 And it includes reasonable, and technically
19 based portions of the existing NPRM and that's
20 important. We need to recognize that the NPRM has a
21 lot of good stuff in it. It just so happens -- and
22 we're going to talk about several areas today where we
23 agree on the NPRM. When we're talking about something
24 this complex, we're talking about it in a day, there's
25 a lot of good stuff there. Definitions of identified

1 sites as modified by industry, and take away some of
2 the very big ambiguities in it, makes a lot of sense.
3 Class 3 and 4 for smaller operators makes a lot of
4 sense. And 20 houses as applied in the system, makes a
5 lot of sense as science has backed it up.

6 With the bifurcation approach in the industry
7 proposal, the HCA definition permits an operator to
8 largely use the final rule that came out in August, or,
9 as an alternative, the left side of the flow chart you
10 saw, on the right side, the operator could choose to
11 intensively examine every circle of every foot, using
12 the very best science we have at our fingertips today.

13 And finally, it permits focus to be on true
14 HCAs while eliminating inconsistent applications. I
15 think this provides us with what Rick mentioned as
16 being -- being at clarity, we can understand it. I
17 think it meets the goal of the public as we understand
18 them today. It meets the goal of industry, and I think
19 it meets the goals of the regulatory community. That
20 concludes my presentation.

21 MS. DAUGHERTY: Could I ask some questions.
22 Would the split approach -- would you envision an
23 operator applying one branch of that equation to
24 certain systems or certain lines, and the other
25 approach to different areas of their system? In other

1 words, one operator using both approaches?

2 MR. MOORE: I don't know on the same system,
3 but just in different areas of the system?

4 MS. DAUGHERTY: Yes.

5 MR. MOORE: I think both methods on split
6 path make technical sense, so an operator could use
7 which one he chose. It would be difficult, I think,
8 for the operator to explain why he chose one here and
9 one there, and that's an inconsistency I think an
10 operator needs to really address in his own thought
11 process. But the technical basis is there.

12 MR. BARRETT: In choosing the 20 houses, why
13 do you look at just taking the density that's already
14 in the Class 3 location and moving that house per area
15 density path in the smaller areas, because obviously it
16 would take fewer houses to impact at that level. And
17 20 -- every 20 houses ...

18 MR. MOORE: To talk about the last part, you
19 just mentioned, Zack, about you have a small radius
20 circle due to a small diameter, small pressure, and go
21 back to the slide I had at the start where the existing
22 rule doesn't -- it penalizes small operators, operators
23 of small pipes like that, because it goes out to 300
24 feet regardless, even though the circle may only be 50
25 feet or 100 feet, and they have to -- they're

1 invariably being penalized. The circle itself, when
2 you talk about we're wanting to offer additional
3 protections applies across the board, because you're
4 offering it to X people -- system of X people per area
5 you're trying to protect. Stacey.

6 MS. GERARD: First a comment, just for
7 clarification. Appreciate the consideration of
8 consistent policy in the density question from liquid
9 to gas. Point of clarification is that the 1000 people
10 per square mile criteria for liquid is one of two
11 criteria. The other criteria is the population in the
12 census tract for other populated areas, which is about
13 -- we don't know exactly how much more conservative,
14 because it's not quantified per -- published per square
15 mile, but it is considerably more conservative than
16 1000 people per square mile, which affected some of our
17 considerations on the number 20. So it isn't really
18 based on 1000 people per square mile. I just wanted to
19 make that comment.

20 My question is there's a tremendous amount of
21 work that's gone into this concept that you've proposed
22 and really appreciate how much effort has gone into it
23 on your part and everybody you work with, to come up
24 with this proposal on behalf of so many pipeline
25 operators. I wanted to be clear as to why you propose

1 the bifurcation. I have a feeling there's several
2 reasons behind the bifurcation, and I just wanted to be
3 clear as to why. Because the issue of bifurcation, I
4 think potentially could make it complex for us in terms
5 of the administrative steps we would have to go through
6 to favorably consider that proposal. So I want to be
7 sure what the benefits are behind the bifurcation.

8 MR. MOORE: Number one reason, and Andy, jump
9 in with number two if you want, whatever, that's fine.
10 Number one, it allows different types of operators --
11 Dan talked earlier about ... INGAA companies -- about
12 28 INGAA companies. APGA has 600. AGA -- I'm sorry?
13 900. And AGA has about 200. These are all different
14 size companies with all different pieces or amounts of
15 technical data and computer systems and ability to
16 evaluate different ways on their systems, especially
17 APGA guys, my God. I've been educated a lot on that
18 lately and how different they are from big transmission
19 operators like myself. It's incredible. This approach
20 allows them to credibly establish what their HCAs are
21 without hauling in enormous amounts of effort going
22 down circle path and they may not have the technology
23 for it.

24 On the other side, it allows large operators
25 who have the data in a database that they can get to,

1 or if they want to use cellophane and slide it down an
2 aerial view of their pipeline, they can do that too.
3 It lets that operator use the very best science that
4 they ... without bankrupting small guys. And that's
5 our goal. Laurie, come up here.

6 MS. TRAYEEK: I'm Laurie Trayeek, I'm with
7 the American Gas Association, and the reason that this
8 is a particularly important point to us and actually
9 also builds a little bit on Linda's question. Is that
10 you need to understand that it is our belief that the
11 choice of saying that all of your pipe is Class 3 and 4
12 is HCA is a very conservative choice, and it is only
13 going to be made by an operator that does not have a
14 lot of mileage that is transmission -- that does not
15 have the kind of ability that Daren and Andy have
16 suggested in terms of doing all of this analysis, or
17 trying to determine exactly -- or wanting to do this
18 calculation. So because of that, they are choosing to
19 pay that amount of type and apply what the industry
20 would consider would be a most conservative approach in
21 deciding. Well, it's conservative -- that's really
22 what Daren just established is that if you want to
23 focus on consequence, then you want to look at the C-
24 FER equation and you want to determine what the impact
25 or consequence of what we establish as the criteria

1 would be on that criteria, and that is where you should
2 be focusing all your HCA enhancements. And if you're
3 outside of that area, and you're not an identified site
4 as we've talked about in a Class 1 or 2, though this
5 applies to all, Class 1, 2, 3, and 4, then it's not
6 necessary to add these enhancements.

7 So again, if an operator is going to choose
8 to say that because of the limited mileage I have,
9 because of the limited ability I have to do all of
10 these calculations and all of this, I'm going to choose
11 the most conservative, then they can make that choice,
12 but again, we -- that's -- and that's why it's
13 important, and it's important to have that flexibility,
14 because an operator can have a system that operates in
15 downtown Manhattan, but also operates is more less
16 complicated areas outside of downtown Manhattan, and so
17 it may make sense for downtown Manhattan for them to
18 take that approach, but may not make sense to do it on
19 segments outside of Manhattan. But the risk approaches
20 all.

21 MR. MOORE: From the fact that they have less
22 knowledge, shouldn't some of this analysis be useful
23 for them to do? Since they have less knowledge,
24 shouldn't some of this analysis be easier for them to
25 do?

1 MS. TRAYEEK: It's just a matter of a
2 resource issue and how they want to apply their
3 resources, and if they want to choose to have a less --
4 take this more conservative approach to just say I will
5 take this all as HCA, you're getting the same result
6 from an inspection standpoint, you're getting a little
7 bit more than maybe would be necessary if you applied -
8 - so it's just a matter of how do you apply your
9 resources and what's your best approach, and as long as
10 the end game is still met, that flexibility helps the
11 operator. Yes, it's the most cost effective way of
12 getting to that same end game.

13 MR. MOORE: Bill?

14 MR. GUTE: I'm Bill Gute, Office of Pipeline
15 Safety, and I guess I have a question. I might have
16 missed something on the conservative and the C-FER
17 approach. And I think when I was looking at the
18 presentation there was a 30 inch pipeline at 1000
19 pounds, something like that, which is a 660 impact
20 circle.

21 MR. MOORE: Yes, it was.

22 MR. GUTE: So the question I have, if you
23 have a 36 inch pipeline at 1200 pounds, or something
24 like that, and the impact circle goes beyond the 660,
25 am I correct in saying that that's out of the picture

1 now?

2 MR. MOORE: No, no.

3 MR. DRAKE: No.

4 MR. MOORE: Bill, the way it would work is
5 let's say the 36 and 1200 has a radius of 1100 feet,
6 just say that. That's your PIC. You would look on a
7 prorated bases inside the 660 for however many houses -
8 - that's going to be based on 10 or 12 houses. If you
9 had 10 or 12 inside the 660, HCA. If you had
10 identified sites inside the 660, HCA. And as Paul
11 pointed out that maybe you want to look for identified
12 sites on further out because that's not a proratable
13 object.

14 MR. GUTE: I guess -- I think, my question, I
15 can narrow it down. And maybe that's the one that Paul
16 was asking it. Let's say you have no houses in the 660
17 and you have a hospital at 680, is that hospital
18 covered?

19 MR. MOORE: Under Paul's question, the answer
20 would be yes, because you look for identified sites now
21 past 660.

22 MR. GUTE: So the proposal is it would look
23 for those sites outside of the 660.

24 MR. MOORE: Bill, industry hasn't finished
25 fine tuning that part of our proposal. We recognize

1 that's something to debate in our community. Paul
2 brought it out very well in his question, and it's
3 something we've considered.

4 MR. GUTE: Okay, well, I think that is an
5 issue that's absolutely --

6 MR. MOORE: We've identified it, Paul
7 identified it, now you've identified it. We're all
8 getting there. We're asking the right questions.

9 MR. GUTE: And I have one more question, I
10 know it's getting near lunch here, but I've got to put
11 Andy on the spot now. And I was just curious, I think
12 this is a very interesting proposal, but you made a
13 statement in your talk, whatever it was, --

14 MR. DRAKE: Whatever.

15 MR. GUTE: Whatever that was, I don't know.
16 That under the proposed rule that we had that you would
17 have to pig 80 percent of your compressor stations
18 downstream compressor stations. I was curious if you
19 had looked at, with the new circle approach across the
20 entire system, do you have any idea --- would that be a
21 reduction or would that be about the same? What would
22 that turn out to be?

23 MR. DRAKE: When we look across the system,
24 we pick up somewhere close to the same amount of the
25 discharge sections. What you see -- and Daren hit on

1 it, the population density distributions don't follow
2 these 46 per mile evenly spaced out. Most of the
3 people are in the certain parts of the country, and I
4 think that's the value added is that if you want to
5 cover those areas more intensively --

6 MR. GUTE: Yes, I agree with that, but if you
7 say though, that --

8 MR. DRAKE: We trade some valve sections.

9 MR. GUTE: But it would still turn out to be
10 about 80 percent?

11 MR. DRAKE: Well, I'm kind of hesitant here
12 to kind of say a number because if I can't see the
13 target --

14 MR. GUTE: We don't know what the definition
15 is yet. We don't know --

16 MR. DRAKE: If I qualify it real heavily, if
17 we use a number like 20 and if we use these -- some of
18 these definitions to talk about sites, and yes, it's
19 about the same. It moves it a little bit more, and I
20 think you're a little bit more publicly credible,
21 you're trying to find the people and address them, and
22 that's the issue. But when the numbers move around,
23 like if the number goes from 20 to ten, it goes to 100
24 percent of my discharges and now we're not focusing.

25 MR. GUTE: Okay, I just wanted that --

1 MR. DRAKE: So it's very volatile -- that
2 number -- and that's why I'm kind of ... is that number
3 is a very volatile issue. If you move that number
4 around, it changes the hurdle a lot.

5 MR. GUTE: Well, it just struck me, though,
6 that a circle would still cover a lot of valve sections
7 because you're going to hit -- and basically you're
8 agreeing with what I'm saying.

9 MR. DRAKE: Yes.

10 MR. GUTE: Yes, thank you.

11 MR. MOORE: Any other questions before -- I
12 guess we're going to break for lunch at this point? Is
13 that the idea?

14 MR. MOSINSKIS: I have a -- just an
15 observation. I'm George Mosinskis with the American
16 Gas Association, and as Daren said, we represent about
17 -- exactly about 187 operators with mileage ranges --
18 with mileage in the transmission sector ranging from
19 five miles to 5000 miles. Basically, what we're
20 talking here is an added layer of protection over what
21 already exists, correct?

22 MR. MOORE: That's correct.

23 MR. MOSINSKIS: There is in place at least --

24 MR. ISRANI: George --

25 MR. MOORE: Mike, you agree with that

1 statement?

2 MR. ISRANI: (off mike)

3 MR. MOORE: George, restate the question so
4 OPS can answer the question.

5 MR. MOSINSKIS: Well, what I'm saying is that
6 basically that what we're talking about here in t... is
7 integrity management which is an added layer of
8 protection from what already exists in terms of
9 pipeline safety -- inspection, assessment, and
10 integrity management.

11 MR. ISRANI: That part is true.

12 MR. MOSINSKIS: Okay, I just wanted to make
13 sure that that is the case, and that we can identify at
14 least 12 different special inspection procedures that
15 take place, most of them, annually or even more
16 frequently to maintain the health of the transmission
17 pipelines, correct?

18 MR. ISRANI: That part is correct too.

19 MR. MOSINSKIS: Okay.

20 MR. ISRANI: Let me tell you one part I
21 didn't think was correct. If we go either approach,
22 what you heard from Daren right now, for the pipeline
23 which have a very small impact circle, you will not
24 find any pipeline that will fall under HCA definition.
25 You cannot find 20 buildings even if you mount on top

1 of each other -- four story and higher buildings, you
2 cannot put buildings in a 100 foot circle, meaning you
3 do not have any pipeline which is in on a HCA. So that
4 was the point -- I can go through this entire and give
5 100 theoretical flaws there, but you know we are not
6 here about battles, we are here to find some balanced
7 approach.

8 MR. MOSINSKIS: I agree with you fully, Mike.
9 That's all I wanted to ask.

10 MS. GERARD: Since Mike raised the question,
11 I'd like to pose it as a question. If we were to
12 consider the proposal on the right side of your chart,
13 run the circle, and you've got a smaller pipeline that
14 would have 100 foot, and you seem to have support for
15 the policy of a consistent basis for number of houses,
16 but realistically in that smaller zone, you obviously
17 can't fit 20 houses. Would you -- since you're willing
18 to take an approach to extrapolating from 660 out,
19 would you consider an approach appropriate for
20 extrapolating the lower side, downward, so that you
21 would look for the same rate within 100 foot radius?

22 MR. MOORE: Stacey, I think that's a very
23 good question, and Mike said 100 flaws, and perhaps
24 that's one. I think the answer is best given by the
25 states or perhaps by operators who are more affected by

1 this, like our AGA members.

2 MR. KUPREWICZ: I just want to be sure you
3 don't lose perspective here. I know it's easy to chase
4 after these numbers and whether it's 20 or 15 or 25.
5 Sounds like you guys got a workable solution. But from
6 the perspective of the public interest, and I think I
7 represent some of these corporations here, there's a
8 point where the real issue is that if you're
9 unsheltered or you're outside, you don't have much
10 time, and if you're close up, you don't have much time.

11 So as you get these smaller lines, building structures
12 are less of an importance. We don't want to lose focus
13 of that issue. I'm not saying if you're near one of
14 these and your house burns down, that's one issue. But
15 what you don't want to lose sight of is you've got
16 playground that's right up against your right of way,
17 and you lose a small diameter line, it still has
18 tremendous ability to cause severe, serious casualties
19 to those unsheltered individuals. So, to me, your
20 defined sites is going to capture that trigger to bring
21 in that additional scrutiny level and I wouldn't
22 recommend -- or I would recommend not getting so overly
23 focused on that building structure concept, because it
24 becomes less of a -- the identified site is your real
25 safety catcher for the areas of risk that I'd be

1 looking at.

2 MR. MOORE: And Stacey, identified sites
3 would still be looked for in those small circles as
4 well. That's not off the table at all. And Rick,
5 you're asking the right questions. Been doing it all
6 day, and that's great stuff. We actually talk about
7 different numbers of people, and if it's an outside
8 area, because they're unprotected and may not be able
9 to whatever, that the threshold is different than for
10 those people who are more greatly protected inside a
11 structure. That's in the proposal. I didn't talk
12 about it, but it's in the proposal. And that will be
13 filed in the docket comments.

14 MR. EASTMAN: Just a quick statement. First,
15 I want to -- my name is Alan Eastman. I'm with Pacific
16 Gas and Electric Company out on the west coast. We
17 have about 6000 miles of transmission lines, Class 1
18 through Class 4. First I want to real quickly
19 recognize Mike. I think he probably feels a little
20 beat up at this point because of some of the statements
21 that industry laid on that, and I think Mike did an
22 admiral job of trying to define what is High
23 Consequence and what is not.

24 First point I'd like to make, regardless of
25 what is decided on the High Consequence Area

1 definition, your comments, basically you want to add
2 more geographical areas. Clearly you're going to add
3 more safety just in terms of requiring inspections for
4 those classes, in other words, Class 3, 4, the circle
5 rule -- you know, geographic additions are one that are
6 clearly going to require inspections. That's part of
7 the whole process in improving public safety.

8 The second thing is I really support the
9 scientific based impact circle rule, and maybe from a
10 little different angle. Maybe kind of go on to what
11 you were talking about. When you sit across the table
12 from a permitting agency and you tell them that you
13 need to tear up the new roadway that they just laid --
14 and I just got through having this conversation with
15 the county of Santa Clara last week. I need something
16 real defensible that I can show them that, hey, you've
17 got folks -- first off, they did not accept that
18 there's a federal law. There are some people really
19 smart out there. I was pretty amazed that they brought
20 up the C-FER rule to me. Great. Love it. We can talk
21 about that. But I need something very defensible that
22 I can say, okay, there is going to be an impact in this
23 particular area soon, potential impact if an incident
24 occurs because of this calculation. I think that's a
25 scientific based approach that is defensible that will

1 carry weight with public permitting agencies.

2 Then I think there's other permitting
3 agencies that aren't as smart, and there are smaller
4 operators that can just cut to the chase and go ahead
5 and do their 50 miles Class 3, 4 and accomplish that
6 added safety margin which you'd like to have.

7 So I guess I just wanted to make a statement
8 that I really support the scientific basis, and I
9 really believe down the road, if you look out into the
10 future, one of your goals is to get more operators to
11 get more risk management programs, and more risk
12 assessment knowledge -- it's going to happen because
13 more and more permitting agencies are going to say,
14 wait a minute. Time out. Why do you need to tear up
15 that roadway? Why do you need to drill every ten feet?
16 Why do you need to replace those valves? I'm not
17 convinced that's going to improve the safety of that
18 line.

19 So, just in support of what Daren talked
20 about, and also in support of what Mike talked about, I
21 think it's doable, I think we can come together and if
22 we get people focused in the right areas.

23 MR. MOORE: Thank you.

24 MS. GERARD: When we were making
25 introductions earlier, we did not have in the room

1 Linda Lasley (ph) I wanted to introduce. She is with
2 the Department's General Counsel, and Linda's here
3 anticipating that this rule is actually going to be
4 packaged as a final rule and come for clearance, and so
5 we appreciate her being here in the Department to get
6 the background to make it easier for her to consider
7 this. It's an awful lot of technical information and
8 if you don't live and breathe -- and even if you live
9 and breathe pipelines, it's very technical. Imagine if
10 you don't and you have to review this. So we
11 appreciate her being here.

12 MR. MOORE: Any questions before I sit down
13 and let Stacey have the floor back?

14 MR. ISRANI: I would say that since we have -
15 - we had one comment from Rick, and then we should take
16 lunch break and we have other items on the agenda.

17 MS. DAUGHERTY: I just wanted to make a
18 comment before we go to lunch, we may lose some people,
19 please keep in mind, any of you that are shy and don't
20 want to stand up and ask questions, that you can always
21 send in comments to the docket and we will consider
22 those. We encourage you to do that.

23 Bon appetit.

24 MR. ISRANI: Right now it's ten after 12, so
25 we can get back here by ten after one?

1 (Whereupon, at 12:10 p.m., the hearing was
2 recessed, to reconvene at 1:10 p.m., this same day,
3 Friday, March 14, 2003.)

1 going to the public meeting aren't you? And I said
2 yes. She said would you like to be a speaker? I wrote
3 back in enlargement, "NO". She sends me back an e-mail
4 stating, it would be nice if you spoke. Your time is
5 late that afternoon. So we got it about 3:15, I
6 figured I'd have about 12 people in the audience to
7 talk to on Friday afternoon in Washington.

8 So we're going to be talking about state
9 regulators. I am the Director of the Pipeline Safety
10 Section at the North Carolina Utility Commission, and
11 I'm just a plain and simple guy. My presentation's
12 going to be plain and simple.

13 In addition to this integrity management that
14 we are looking at, the 800 pound gorilla here, we also
15 are operating and we still regulate our operators for
16 Part 192. And I told Stacey yesterday, I feel like I'm
17 going to a buffet with a saucer and everything else is
18 just getting overloaded, overloaded and overloaded.
19 But after I make this PowerPoint presentation and I'm
20 probably going to do it again at a SEGA -- it'll be the
21 second time I've ever done one. So if you all will
22 just kind of bear with me on this.

23 The thoughts on this are mine. I got some
24 people to help me put it together so it would make me
25 look good, and help me get through here.

1 Now looking at a High Consequence Area, what
2 came first? the pipeline or the houses? You know, if
3 you're an intra-state operator, chances are this
4 pipeline was built possibly 30-something years ago when
5 there was no such thing as a HCA. All of a sudden,
6 just like in real estate -- location, location,
7 location drives everything. So all of a sudden, I
8 don't know if they did a great horizontal directional
9 drill through the back of these houses to get that
10 pipeline through there, or was the pipeline there and
11 the developer thought he could get some land and just
12 put the houses there, which he probably did.

13 This is a Piedmont Natural Gas, one of the
14 operators in North Carolina. I said hey, I need a
15 picture of something or other, and this is what they
16 helped me with. I think that kind of drives what we're
17 really talking about right now. We were talking
18 earlier, and I make the point that listening to the
19 other speakers up here, they were talking 30 inch, 36
20 inch, 42 inch pipe -- very rarely did they get down to
21 the 18, 12, 10 -- you know, that's what the intra-state
22 operators have. And chances are, most of the intra-
23 state operators, their pipelines are one way feeds.
24 They're from really the main transmission line to where
25 the load is, and anything comes beside it, they'll just

1 put a T in there and go on.

2 So when you get down here to our in line
3 inspections or going in here and pressure testing or
4 direct assessment, which we don't know what it is yet,
5 we're going to have a lot of concerns in everything.
6 So when I got up here and I was talking to Mr. Director
7 who's not here and I said, what's that going to cost
8 you all when you all do all this stuff? He said, a
9 lot. I said, you're going to pass it on to the
10 investor utilities to pass on to rate payers aren't
11 you? He said, probably.

12 So it's all going to filter down to where I'm
13 working with the state people in North Carolina, and
14 the utility commission, not only do we look at safety,
15 we look at operation and rates, and Mr. Mike Wilkins is
16 one of the Commissioners was at the ... meeting in
17 February. He got wind of the pipeline safety
18 reauthorization act session, went in there. He came
19 back and talked to me. He said, get our operators in
20 here. I'm concerned on what this is going to do to us.

21 So have meetings sitting in April, I'm
22 bringing in my intra-state transmission people and I
23 will say I've had the opportunity to work in Kansas,
24 Oklahoma, and now North Carolina in pipeline safety
25 regulation, and I know I've got some of my Oklahoma

1 people here that I worked with before, but I'm really
2 proud of my North Carolina people. I've been working
3 with them for ten or 11 years, and we try to work
4 together. It's not a butting heads. When this thing
5 came out I called them and said, how are we going to
6 approach this? I try to use it as a partnership method
7 instead of me just telling, telling, and telling.

8 Because when I try to put this thing together
9 and looking at it -- I'm going to put a PowerPoint here
10 like I said, so I had meetings and trying to get all
11 this. They helped me out and I'm going to go through
12 this.

13 The intra-state lines -- this is North
14 Carolina. This is Transco -- we've got some of those
15 Williams people back here. That corridor there has got
16 four interstate pipelines in it. I believe there's a
17 30 -- two 30's, a 36 and a 42 inch. And this is wide
18 as it can, it's going right up there and it crosses
19 577, 95 and so forth, going on up into Virginia. Now
20 those people there, they're set up for pigs to run it
21 through there, to test and look and everything else.

22 For example, this line of North Carolina
23 Natural Gas Line 1 is a 16-inch line that's got a
24 compressor station out here at junction A. It kind of
25 takes off and goes up there and feeds like Fayetteville

1 on over here to Greenville, Washington, and so forth.
2 Those are like ten or 12 inch lines. So they operate
3 different. Their SMYS is different, and anytime that
4 you have a dig-in and you had to go in there and do
5 something to it and put a newer fitting in there, if
6 you did have a place to pig, you might have made it
7 mess up because it won't -- a smart pig will not be
8 allowed to go through where a fitting was. So we going
9 to change our complexity there.

10 Transco, our four lines here -- we have a
11 Cardinal pipeline which is part of the Williams and
12 Transco operation, and they feed the Raleigh area, but
13 this is North Carolina Natural Gas. Down here you've
14 got two lines going parallel. We do have one line
15 that's 30 inches, and it goes from over here to the
16 Transco takeoff to Hamlet. That's a 30 inch line but
17 it also fuels five generating plants.

18 Now when you're getting into gas and
19 electricity -- and the gas company's trying to buy
20 electric companies now so they can bring gas where they
21 want to for the generation and so forth, we've got down
22 there -- used to, in the summertime when you was a gas
23 operator, you might take a line down for a while to do
24 repairs and so forth. But nowadays you can't do that
25 any more. Now you're having a peak season in the

1 winter for heating, now you've got a peak coming down
2 here to generate electricity so you're caught short on
3 some of this stuff. So what do you do?

4 You know, we're going to look at direct
5 assessment, which right now the only thing I've seen is
6 NACE and there's more acronyms than a show dog can jump
7 over in this little deal anyway, that we're going to be
8 looking at. And I'm going to bring that up too. Like
9 I say, I'm afraid I'm going to embarrass myself up here
10 and I won't -- everybody's going to laugh at me, but if
11 I do good Stacey might ask me to do it again. So I'm
12 kind of in trouble right now.

13 I used to run the gas system here in Pitt
14 County, the Greenville Utility Commission. It's just a
15 municipal -- it's pretty large. It's got about 17,000
16 customers, but we're talking about transmission lines.

17 These two lines from Greenville over here to Little
18 Washington, one of them's a four and one of them's a
19 three. You're out here in what could be a Class 1 or 2
20 location, but nowadays in the intra-state operation,
21 you're going to have more little rural churches going
22 out here and putting their lots here close to your
23 pipeline, it's going to change you from a possible
24 Class 2 to a Class 3, but luckily our guys are pretty
25 smart. They kind of design everything Class 3 just in

1 case it comes up that way. Or it would not have been
2 an HCA until now you've got more than 20 people or 50
3 people coming in there so many times a year that you're
4 going to have to go in there and do some more testing.

5 I get the annual reports from our operators
6 and right now we have 2789 miles of transmission lines.

7 Now that's anywhere from a two inch line up to a 30
8 inch line, and if you get right down to it, and after
9 talking with OPS yesterday, being Chair of NAPSR, I
10 talked with Stacey on some NAPSR issues and kind went
11 into a little bit of this. I wish I could have done a
12 little bit more detail and come up with a percentage of
13 what might be two or less than four inch, less than six
14 inch, or less than eight inch. They might have a SMYS
15 range anywhere from a 20 percent SMYS up to a 40
16 percent SMYS. These are intra-state lines. These are
17 the ones that -- that come to Jim. We've got a 192 Jim
18 there in Raleigh. I deal with all those people on the
19 pipelines.

20 Now looking at the Code -- alright, after we
21 go in and do our assessment, we're going to go in there
22 and we're going to take our project over here on his
23 risk assessment project that I think is very nice --
24 we're going to come in there and look and everything,
25 then we're going to come in here -- we're going to

1 direct assess this, which we're trying to work on a
2 definition for right now.

3 Or we're going to do an inline inspection,
4 which is smart pigs. Now we really can't do that on a
5 lot of our pipeline. We've got a lot of 90 degree
6 deals. We've got a lot of one way feeds. We've got a
7 lot of pipeline put in before '94 when the codes said
8 that you had to make everything piggable. So we can
9 maybe scratch out that one on some of this stuff.

10 If you're going to hydrostatically test it,
11 like you maybe get under new construction you're going
12 to might have to take it out of service. No can do.
13 We're kind of caught short there too.

14 So a lot of us are going back to what if --
15 to a direct assessment, and we don't know what that is
16 right now. The only thing I've heard is, what?, it's
17 external corrosion direct assessment. Well, we also
18 use the terminology, a close interval survey, or do we
19 need ... rectifiers up so we can get it from a negative
20 .9 to a negative 1.3 or something or other? But to
21 make sure that we get some off the bottom?

22 Alright, now looking at -- oh, there's really
23 a two over there. We've got 2,789 miles of
24 transmission lines -- slide me over?

25 PARTICIPANT: I don't think it's going to

1 work.

2 MR. ANDERSON: Oh, man. But we've got 2,789
3 miles of transmission. Now looking at the way the
4 intra-state operators operate, a lot of those are in
5 Class 3 and Class 4 locations. So talking with my
6 operators, you know, I said we might have 75 percent
7 Class in our HCAs by the time -- But if I have 75
8 percent because of this, if you look at it, if you even
9 want to try to pig it, if you find your HCA, when you
10 did construct that line you've got a place to have a
11 pig launcher or a receiver, you may be 20 miles down
12 the road and although you've already done a risk
13 assessment, you're pigging 20 miles to come up with
14 your 1000 feet in here, and the cost gets astronomical.
15 And that's going to be passed to my rate payers.

16 So then we're going to have 2092 miles in the
17 integrity management program. You take our percentage
18 of that, you're going to come up with 348 miles a year
19 at an estimate cost of \$10-15,000 a mile, that comes up
20 to be about three and a half million to a little over
21 five million dollars a year that our operators in North
22 Carolina are going to endure to be passed on to our
23 rate payers. Just for DA.

24 Now, if you opened up the USA Today
25 yesterday, no actually day before yesterday, first

1 thing you saw in the money issue was this guy here --
2 he's actually ... oil, but the thing he says, "It was a
3 winter from hell" -- Long Island New York -- "says
4 retired executive McFardle (ph)." His gas bill was
5 \$425 -- you know, 107 percent above what it was last
6 year. So if you're going to add the cost of gas when
7 you're out here purchasing, the overhead cost in
8 February was double digits. Last year it wasn't double
9 digits, now the price of gas is astronomical. And if
10 we're going to add all this on to it, and with the
11 recession in the economy -- we're rural in North
12 Carolina, you know. We lost all of our furniture
13 plants, we lost all of our textiles overseas, and
14 everything, so -- and my state's broke.

15 Alright, so we're going to do an inline
16 inspection. We've still got our 2789 miles and we've
17 still got our 75 percent. Alright, so looking at this,
18 to meet our ten year criteria, it's going to be
19 something like 232 miles a year at a cost of \$25-30,000
20 a mile, it's going to be a little over \$5.8 million to
21 almost \$7 million a year that will be passed on to the
22 rate payers.

23 Same principle here if we're going to use a
24 pressure test -- we're going to hydrostatically test
25 the pipeline. Looks like it's going to add up to be

1 approximately \$7 to a little over \$8 million dollars a
2 year that's going to be passed on.

3 Now, I'm all for safety, don't get me wrong.
4 I've been in the business since 1979. As I said, I
5 started out as an inspector, two program managers, as I
6 said, I raised the IQ of two states then I come on in
7 here.

8 Now these are some of the issues that we've
9 got in here on the piggability. You know, someone
10 said, we're going to pig. But you don't have a SnapOn
11 tool that you can go ahead and snap on a pig launcher
12 and a receiver. You know, you've got this stuff here
13 that you're going to come in here and do this.
14 Alright. Some of the bivalves that you put in and you
15 operate in, they're not full open. You can't run a pig
16 through things like that. Our L's and T's in there --
17 all this stuff hurts intra-state operators, especially
18 when we're down in the four, six, eight, and maybe ten
19 inch pipelines, and then if you ever had a damage and
20 you had to go in there and stop it off, you left your
21 ... fitting on there, you can't run anything in there
22 anyway, although it was piggable when you did it, if
23 somebody happen to give a D-9 locator out there and hit
24 your pipeline, you came in there to redo it, you then
25 stopped your ability to pig it.

1 Then if you come in here and you're going to
2 do your hydrostatic testing, or you've got your
3 environmental people out here won't let you dump water
4 anywhere any more. You know you're out here looking
5 for places for this. Then you've got your hydrocarbons
6 in here and then you're blowing down and into purging
7 of everything.

8 Cost versus risk benefit. Now this is
9 something a poor boy from Arkansas, you know, we'd like
10 to make sure he spends his money wisely. Now, looking
11 at the costs I had a while ago, and like I said, my
12 operators in North Carolina, they're good operators.
13 If we're going to be spending eight million a year, or
14 five million a year and over a ten year period, you're
15 up to here to about \$50-80 million dollars, that's a
16 lot of money. I want to make sure that we get our bang
17 for our buck. You know, if we come up here and do a
18 risk analysis up here, and you might have a correlation
19 -- you have a point zero up here to about ten, you do
20 your risk analysis and you maybe somewhere in the three
21 or two, according to whatever engineering
22 specifications you're going to come up with.

23 Well, if I'm up there at a two, knowing I
24 can't get to zero -- I know the gentleman said he can
25 go to zero -- that might be our target, but there is

1 some risk here. If I'm at two, then I need to come
2 down to one or one and a half, I might not need to
3 spend \$8 million over ten years to get down there. But
4 if I do a risk assessment and I'm way out here at eight
5 or nine, I do need to spend that money to come back
6 down here to make sure I'm right.

7 And that's what I want to make sure we do. I
8 want to tell Stacey, you know on your risk reduction
9 and your cost, I told them if I was Secretary Mineta
10 and I'm going to tell my wife I'm going to go out and
11 buy myself one of these HUM-V IIs to make sure they can
12 get from where they are downtown Washington -- that
13 might get you there. But if you then take that motor
14 out and put a six cylinder in there and make sure you
15 don't go too fast. And then you take it down to Jeff
16 Gordon at NASCAR and put that head and neck restraint
17 in there, and add that on in case you do get hit your
18 head won't get shoved around. So it's going to cost
19 you \$75,000 to get to work, when you used to get on the
20 metro for four, or whatever. So we're looking at a lot
21 of money here, and are we getting our bang for our
22 buck?

23 MR. EASTMAN: I think Andy has met his match.

24 (Laughter, applause.)

25 MR. ANDERSON: But I think I'm telling you

1 the truth here for what I'm talking about. Everybody's
2 shaking their heads.

3 Alright, now this has already been beaten to
4 death today. You know, everybody talked about you're
5 coming up here with your potential impact ways, the
6 zones. You know, with your small diameter, you might
7 get your 20 percent SMYS and whatever going up there,
8 become a transmission line.

9 Looking at a six inch, and I just picked this
10 out here -- you know, you've got a six inch with MAOP
11 of 600 pounds -- they're all over the country for
12 intra-state operators. You're Potential Impact Radius
13 would be like 102 feet. Well, we've got to move it up
14 to 300 so we can encompass some more people in there.
15 There's our radiuses we're working with. You've got to
16 round it up to the next highest.

17 Alright, we've got -- we're going to talk
18 about this as being complex. Like I said, I'm just
19 kind of plain and simple, and I'm struggling through
20 this along with my other duties. I know we've got a
21 year to come up with this, and hopefully -- I know
22 there's lots more people in this room than me that can
23 come up and figure this out and help us understand it
24 and meet our objectives.

25 But we've got HCAs. We've got MRAs, CBAs,

1 PIZs, PIRs -- like I said, we've got a lot of acronyms
2 here that we've got to learn to deal with. You've got
3 your formula. You've got your intervals here, what
4 you're going to use, what timeframe you're going to use
5 it in. And then you've got to go in there and retest
6 it. What if you just built the line three years ago?
7 Do you have to go in there and retest it again? Those
8 are just questions that people come up with.

9 Concerns. Now I'm the program manager and I
10 have four really good guys that work for me, but we're
11 not PE's. These guys that I have working for me all
12 worked in the gas business before. One of them worked
13 for me in Greenville, one worked for a contractor, and
14 two worked for an LDC in the state, and I hired them
15 away.

16 Now I'm going to be leaning on OPS really
17 hard to get this thing down to we can understand it, so
18 we can go out and talk to my operators. And then we're
19 going to have to make sure our operators are trained.
20 Then I'm going to make sure that if I go out there and
21 tell them they're right or wrong, they will understand
22 if I told them they were right or wrong if I knew they
23 were right or wrong. So that's why we're looking at
24 that.

25 Then we've got some -- let's get some

1 guidelines down here that are realistic. We had some
2 flow charts up here a while ago that were pretty
3 complex, you know. I was pretty close to them, and I
4 still couldn't understand them. We've got to get them
5 down to the intra-state inspector's level that we can
6 understand it, that we can go out there and talk to
7 these people. And then, we've all talked about
8 regulative clarification. Let's get this thing down to
9 where we can understand it, basic terms, and meet our
10 goals.

11 Now in our talk yesterday, when I was at OPS,
12 -- and this is just common sense. You know, you've got
13 a four inch pipeline operating at 20, 22 percent SMYS,
14 it comes under this category. Now operators may end up
15 saying, hey, if we just drop our MAOP 50 pounds or
16 whatever, operating pressure, we're going to be at
17 19.9, and I think that's going to be the goal that you
18 might want to achieve that you don't come underneath
19 this. Well, will they still be able to meet the load
20 demands on the other end if they reduce the operating
21 pressure and so forth? And then all of a sudden, you
22 can drop in five or ten pounds and it'll save you
23 \$30,000 a year for this five mile line that meets this
24 criteria, chances are you're going to try to do it.
25 Are we looking at something like that?

1 Maybe we can look at the definition of a
2 transmission line. You know, my company a while ago,
3 they entertained maybe 30 percent SMYS or whatever,
4 let's get a correlation here. Maybe a small diameter,
5 a higher SMYS, and maybe a four inch up to a 40 percent
6 SMYS, a six inch up to 35, and eight inch up to 30 --
7 just have a little scale here.

8 If you're writing prescriptive rules, I guess
9 you can get as prescriptive as you want. We've gone
10 anywhere from prescriptive regulations, we've gone to
11 performance regulations, and when you get into OP-2,
12 which is taking up the other part of my memory bank on
13 the other side right now, you're looking at process
14 regulations. I'm regulated to death right now and just
15 because I'm Chair of NAPSR, like I said, that don't
16 mean I know everything.

17 So, that's my presentation -- tell me what
18 this means so we can get up here and operate it. So,
19 like I said, I'm Jim Anderson and I will entertain some
20 questions. I can't guarantee I'll answer what you
21 need, but I think we might have some intra-state
22 operators in the room that we can enlist their help on.
23 I just hope I made sense here.

24 (inaudible participant comment)

25 MR. ANDERSON: You're going to invite me back

1 now. Thank you very much.

2 (Applause.)

3 MR. ISRANI: Okay, we are running one hour
4 and 20 minutes behind time, so I'll try to cut down on
5 my slides and stress only the key issues that I want to
6 clarify in our proposed rule.

7 Since in the morning session we resolved
8 issues on High Consequence Areas, so now we can go on
9 in all those High Consequence Areas, what kind of
10 integrity management requirements we are proposing. On
11 January 28th we issued the proposed rule which asked
12 the operators to develop their integrity management
13 program and follow that in the High Consequence Areas.
14 That proposed rule applies only to gas transmission
15 pipelines which fall under the definition of Part 192
16 as currently states. No gathering lines, no
17 distribution lines are covered in this proposed rule,
18 and we are not looking at them at this stage.

19 These are the elements of an integrity
20 management program that form the framework of your
21 entire program that all operators will have to develop
22 and follow. All those elements, one by one, are
23 explained in the proposed rule. But I want to point
24 the key things here.

25 That identification of High Consequence Area,

1 developing IMP framework, and developing a plan is due
2 12 months after the final rule. And the last elements,
3 from the management of change, communication plan,
4 environmental and safety risk during assessment have
5 been produced as a result of Pipeline Safety
6 Improvement Act 2002 which specifies these things.

7 In the integrity management proposed rule, we
8 are explaining all these elements. We are also giving
9 cross reference to ASME B31.8S -- S stands for
10 supplement. We tried to use as much as possible from
11 the ASME standard B31.8. We have given reference to
12 various sections and we have put some exceptions where
13 we have. NACE standard wasn't developed -- NACE
14 standard is for the direct assessment for external
15 corrosion. This standard was in development and it got
16 published after our proposed rule was already in OMB,
17 the Office of Management and Budget. And we are
18 considering using NACE standard as much as possible
19 because we have used the language from the NACE
20 standard for the direct assessment in our proposed
21 rule.

22 Select Assessment Technology. After
23 operators identify their High Consequence Areas, they
24 identify the segments which affect the High Consequence
25 Areas. They will determine the threats of each

1 segment, all kind of threats, and based on the threats,
2 they'll determine what technology to use -- whether to
3 use smart pig, pressure testing, direct assessment or
4 other technology which is -- could be under development
5 or currently being demonstrated or proposed. But we
6 are ready to look at any of this new technology.

7 Direct assessment as currently we understand
8 is good for external corrosion, and the standard, the
9 NACE standard, as I said, got published recently. We
10 are still working on the internal corrosion standard,
11 and stress corrosion cracking. I'm not sure if -- no,
12 it's still under development or being planned here. So
13 we have given some specific requirements for all of
14 these. We have given reference to ASME's standard and
15 also plagiarized some of the language from the draft --
16 from the details.

17 What is direct assessment? It's an integrity
18 assessment method which utilizes the process to
19 evaluate certain threats. Certain threats meaning we
20 can look at external corrosion. We can use this
21 process to check for internal corrosion and stress
22 corrosion cracking. And we are not allowing direct
23 assessment across the board. We are putting some
24 conditions on it because it is a fairly new technology
25 for us. And also it has not been used as much as

1 assessment methods, so we are allowing direct
2 assessment when other assessment methods cannot be
3 applied. This is an example like Jim mentioned, when
4 there are -- the last segments of the pipeline when
5 they are sole source suppliers and there are not loops
6 and cross connections available to the pipeline -- that
7 situation. Or when there's a substantial impact on the
8 consumers. If it so happens that operators find that
9 it will really affect their communities and have
10 drastic impact financially, those are the conditions.
11 And also when operators have the pipeline which
12 operates at less than 30 percent SMYS, we are allowing
13 them to use direct assessment. And when the operators
14 are going to excavate the entire segment. And here we
15 are concentrating on small pipeline segments like cross
16 connections or small length of pipelines where they
17 excavate and examine the pipeline.

18 ECDA Region. When we day direct assessment
19 and then for example it is being used for the external
20 corrosion threat, the very first thing operators will
21 be doing is for the entire pipeline, they'll be looking
22 at this -- how to group it, how to have segments which
23 can be grouped together to minimize going through the
24 process again. They will look for ones of similar
25 individual characteristics, similar operating and

1 corrosion history, and other risk factors so that they
2 can group those segments and then use a table that we
3 have proposed in the rule or now in the -- we use the
4 tables -- where they come from the NACE draft standard.
5 Those tables will tell them for those kinds of
6 segments what kind of direct assessment tools are
7 suitable. So they'll determine what kind of direct
8 assessment tools they can use, complementary tools they
9 can use. So that will expedite the process for them
10 and minimize -- they don't have to go through the whole
11 process over and over again.

12 After the operators have grouped their ECDA
13 regions -- external corrosion direct assessment regions
14 -- for each and every region, we have defined -- this
15 is just an illustration, an example, how operator will
16 determine which region will need more excavation than
17 others. And they will go on each and every region and
18 use this external corrosion direct assessment device,
19 look at the indications when they run over the
20 pipeline. If there are -- this is just for
21 illustration purposes only.

22 If the person who's doing the external
23 corrosion direct assessment finds a pipeline segment
24 that they have maximum indication, you know, the needle
25 swings quite wide and they see a lot more of those in

1 one region, that's a bad sign. That's a critical zone.
2 These are called severe conditions -- severe
3 indications, and that requires immediate action. And
4 we have indicated in the direct assessment proposed
5 rule that they will excavate all those indications.
6 And this is for each ECDA region.

7 If you have some moderate indications -- and
8 these things can be determined. These veritable
9 positions of what are moderate, what are high
10 indications or minor indications -- only experts who
11 are running the tool can tell you, can decide, because
12 they consider their tolerance limits and what
13 indication is severe. So based on their best judgement
14 and experience, they'll be able to tell you which is a
15 severe indication. Excavate all of those indications
16 here; and we require two high risk indications
17 excavations in this portion of a segment; and here
18 minor indications, we require only one excavation.
19 This is just an illustration of how operator would go
20 about their region, and how they determine excavation
21 criteria.

22 This graph -- this chart I threw in there
23 because just to give you the same example, what we are
24 looking at. This dark one indicates the close interval
25 survey -- you can read close interval survey and the

1 next one here, this is from the DCVG -- direct current
2 voltage gradient. This is the most commonly used
3 direct assessment tool that operators use when they go
4 below the surface and they look for their indications,
5 for the coating ... coating damage or ... in the
6 coating. And these are indications of what they find
7 under the coating. You can notice in the close
8 interval survey also they notice there was some drop
9 here in the reading, .85 voltage here.

10 And the bottom chart shows the smart pig
11 data. So you can see even the smart pig gives you an
12 indication of these very high indications. This is
13 just a relatively -- showing you the -- it's comparing
14 the direct assessment with the smart pig data results,
15 and we have a verification program going on where we
16 want them to chart like this so that we can verify
17 direct assessment is a valid process. That is still
18 going on.

19 So if you notice, the indications on direct
20 assessment, you are getting in the area where you are
21 also finding on smart pig, indications of corrosion.
22 And in the areas where you have some minor indications
23 from your reader, the smart pig did not determine
24 anything to be there.

25 Ed Arntag (ph) who was involved in the

1 process of validation, he had picked up this chart from
2 one of the validation process that we are going
3 through, and he picked up from some industry, so he's
4 the one who provided me with it. This was from the --
5 yes, yes, the Gas Technology Institute and OPS. We had
6 funded the program to validate the data and we have
7 about 20 operators who are participating in this
8 program, and we wanted them to chart the data of the
9 smart pig results with the direct assessment so we can
10 have more confidence in the direct assessment tools are
11 working.

12 This was just showing this chart, I'm going
13 to explain you in general what direct assessment
14 they're talking about.

15 Another that Jim -- what is CDA. We are
16 using this as a confirmatory direct assessment.
17 Confirmatory direct assessment is a valued technique
18 which we want to use to confirm the condition of the
19 pipeline in an interim period. What I'm saying is that
20 if you are using smart pig or you're using your direct
21 assessment or pressure testing, whichever methods. Now
22 you have finished your baseline with that. Your
23 reassessment period, as we have scheduled this on the
24 corrosion ... and as ASME standard required, was ten
25 years period for a pipeline which was over 50 percent

1 SMYS, and we had 15 years time period for pipeline
2 which are below 50 percent SMYS.

3 But then came the Act -- the Pipeline Safety
4 Act of 2002, which required us, all operators, to have
5 reassessment done every seven years. That will be
6 things of confirmatory direct assessment would meet the
7 legislation, and also we think would meet our goals.
8 So with confirmatory direct assessment, you are
9 measuring -- it's a streamlined version of the direct
10 assessment. It's still a valid technique to do this,
11 but the requirements for confirmatory direct assessment
12 are not as stringent as we have for the direct
13 assessment.

14 Some of the examples are like this. We are
15 allowing you in the confirmatory direct assessment to
16 use one tool. Direct assessment requires you to use
17 two different complementary tools and compare results,
18 whereas here we require you use one tool. We require
19 excavation in immediate areas. We require only one
20 indication in that scheduled area. No excavation in
21 the monitored indications. Now here, in the ... seems
22 like a small matter, but if you run longer in the
23 pipeline it matters a lot, because you're doing one
24 half of much less excavations and it's a direct savings
25 there.

1 The law requires that the starting date for
2 assessment begins from December 17, 2002. Our final
3 rule is not out yet. And operators which are using
4 smart pig and the pressure testing have to complete
5 their baseline within ten years, as the proposal called
6 for. And 50 percent of the pipeline needs to be
7 finished in the first five years. Moderate Risk Area
8 are given the extended timeframe, because we feel the
9 Moderate Risk Area have less impact than the High
10 Consequence Area.

11 But operators using direct assessment need a
12 shorter timeframe. As I told you earlier, we are still
13 in the process of validating this method. We want to
14 have full confidence before we allow direct assessment
15 to be equivalent to smart pigging and other for
16 determining the condition of the pipeline using
17 extended period. So we are allowing them a baseline
18 period of seven years that they must complete the
19 baseline, and 50 percent must be completed in the four
20 years.

21 PARTICIPANT: Is that seven years from --

22 MR. ISRANI: All the date starts --

23 PARTICIPANT: Six year after you come up with
24 the rule.

25 MR. ISRANI: Yes, that's true. We have

1 really lost a year. Because your clock starts from the
2 time the President signs the bill, so that was December
3 17, 2002. The longer we take to assure the rule, the
4 less time you'll have to finish the test.

5 I wanted to mention the prior assessments.
6 We are allowing prior assessments going back five
7 years, and that's required by the law. We are going
8 back to the date, then, December 17, 1997. From then
9 on we consider if you're done baseline, if you want to
10 group that in the baseline.

11 Actions to address -- after you have run the
12 baseline assessment, you have to mitigate all anomalies
13 that you find and the conditions which are immediate
14 have to be done right away. You have 180 day
15 remediations and you have longer than 180 day
16 remediations. Here we reference ASME B31.8S standard
17 which has given you good tables and everything how to
18 follow.

19 Preventive and mitigative measures. Just --
20 only assessment is not enough for measuring the
21 integrity of the pipeline or try to figure out the
22 integrity of the pipeline. You have to take the
23 mitigative measures as well. And we have given some
24 examples of our preventive and mitigative measures like
25 emergency shutoff valves, or remote control valves,

1 your computerized monitoring detection system,
2 extensive inspection and maintenance as well. But ASME
3 B31.8S has a lot more details on the preventive and
4 mitigative measures that we have given reference to.

5 Reassessment period, as I said, the law
6 requires you to have every seven years reassessment
7 after the baseline. So after the baseline I said. I
8 did not say segment, facility, other things -- that's a
9 different issue.

10 Our current rule proposal says that if you
11 are done pressure testing and ILI your maximum interval
12 is ten years for reassessment and 15 years for those
13 pipelines which operate at less than 50 percent SMYS.
14 But the -- since the law requires seven years,
15 regarding the confirmatory direct assessment, which I
16 was telling you that in between you can do that to meet
17 the law. And for the direct assessment, they want only
18 dig samples of the defects, that you are to do every
19 five years, or where they dig all their samples that
20 they indicated, they have ten years to do that?

21 And no integrity is complete unless we can
22 measure the performance. So we have in this rule,
23 giving reference to ASME B31.8 for all the performance
24 measures, there are four overall performance measures
25 that we want operators to have arrangement that we can

1 have access to that, and also the state. So we can
2 monitor those real time.

3 And those four performance measures are here:
4 The miles assessed versus program requirements; number
5 of immediate repairs; and number of scheduled repairs;
6 and number of leaks, failures and incidents.

7 And why we are doing this is because we want
8 to prioritize our inspections. We want to see
9 companies if they're falling behind schedule, we want
10 to see how immediate repairs are being done, and we can
11 see what we are influencing by this rulemaking is
12 working. If the leaks are increasing or remaining the
13 same or decreasing, it'll give us a good measure of
14 performance.

15 I put this slide in to point out that in the
16 preamble of the rule we do have some pointers there
17 that we want public comments, and these are the major
18 issues that are affected by ... law. The question is
19 whether rural buildings, like rural churches et cetera,
20 be designated as Moderate Risk Area instead of
21 currently as we have them as HCA. And if they are
22 Moderate Risk Area then we just require preventive
23 mitigative measures. We ask the question. So we are
24 encouraging industry people, public, anybody to give
25 comments on this issue so we can come up with the right

1 answer.

2 And we also have a comment -- we ask the
3 public to comment on should the 20 year reassessment
4 period be allowed for pipeline which is below 30
5 percent SMYS? Right now, pipeline operating below 30
6 percent SMYS has ... has impact zones not that high.
7 Currently ASME standard also allows 20 year. We'd like
8 to go to 20 year period if we see good justification
9 from the comments.

10 And the same thing for the reassessment. We
11 ask the question. NACE standard for DA -- we ask the
12 question whether we adopt NACE standard directly or we
13 have some minor requirements there in addition to NACE
14 standard, so whether we should keep those exceptions.
15 OPS wants public to give their comments on so we can
16 determine, because we think that there's effect in this
17 required law.

18 And finally, our milestones. We are
19 scheduled to complete the rule by December 17, 2003,
20 and mapping ... is being worked on and we should have
21 it on time sometime this summer -- and other rules we
22 already published. And with that, I close my
23 presentation. Should we have industry give talk and
24 then we ask for comments together? Okay.

25 (comment off mike)

1 MR. ISRANI: Okay, we are ready for questions
2 on integrity management requirements final rule.

3 MR. BOSS: I want to make a couple
4 clarifications. There is a -- the law is silent on
5 giving credit for inspections before 12/17. So it's
6 silent on that point, and the baseline for DA processes
7 -- hydro and also the ILIs, ten years is in the law
8 versus seven years.

9 MS. TRAYEEK: And I had a question for Jim,
10 before you leave, just a clarification. Because on the
11 slide that you presented, where you made the assumption
12 that most of the miles there will probably have to use
13 direct assessment, and you showed what kind of costs
14 that you were looking at, that was based on a ten year
15 baseline and a seven year reinspection?

16 MR. ANDERSON: Yes. Also, what I would like
17 to do, if I'm invited back, is get a correlation of the
18 diameter of pipe and the MAOP ...

19 MS. TRAYEEK: And just to clarify that Mike,
20 what you presented, is the DA under the proposed rule
21 would have to be done on a four year, for the first --
22 would have to be done on a seven year baseline, right,
23 not a ten year baseline? Because that would certainly
24 affect the cost impact --

25 MR. ANDERSON: Right.

1 MS. TRAYEEK: -- that you presented.

2 MR. ANDERSON: Also one other item ... since
3 this is such a big -- you know, a lot of interest in
4 here, might want to make another subpart. You know,
5 you've got a subpart for OP, you might want to have a
6 subpart just to fit it by itself for integrity
7 management that would be set up there. It may be a
8 separate subpart, just integrity management, instead of
9 just tying it in to your maintenance section of subpart
10 1.

11 MS. SCHLEGEL: I have a question. Judy
12 Schlegel from Oklahoma Natural Gas. It says baseline
13 can be used only for other tools are applicable. By
14 what standards do you say they are applicable? Does
15 that mean because you don't have pig launchers, or
16 would you say, well for 50,000, put a pig launcher in?
17 What's the basis for not applicable?

18 MR. ISRANI: I mentioned four conditions
19 under which direct assessment is acceptable. One was
20 that if you had segments of pipeline -- if you have
21 pipeline which is sole source, which doesn't have any
22 of these loop lines or cross connections to other
23 pipelines where product can be delivered while you're
24 doing your assessment, that's one condition. Other one
25 was like if you have a big economic impact on the

1 communities because of using the smart pig or pressure
2 testing and you are disruption of the supply, that's
3 another reason. Small portion of the pipeline, you
4 could use. And the third one is the pipeline ... less
5 than 30 percent SMYS, you can use.

6 I also heard Terry Boss mention that the
7 currently law allows direct assessment as one of the
8 methods to be used in this.

9 MR. DRAKE: We need to take a break? Why
10 don't we take a five minute break and let everybody
11 kind of stretch their legs out, because we're probably
12 going to be up on this panel for an hour and a half.
13 Five minutes?

14 (Whereupon, a ten minute recess off the
15 record was taken.)

16 MR. DRAKE: I have the dubious honor of being
17 the chairman of the INGAA Pipeline Safety Committee and
18 the Gas Industry Integrity Initiative. I think -- yet
19 before you here, kind of a dubious distinction of
20 probably having the most dense collection of
21 metallurgists in our industry right in front of you.
22 So that's kind of -- well, it's back to that HCA thing,
23 you know. This is a pretty dense -- yeah, if you get
24 three or four metallurgists at one table, that's really
25 scary, you know. So watch out. They'll start talking

1 about jakers (ph) and fracture mechanics and it gets
2 really weird here by afternoon.

3 I'm going to talk about the overlap of the
4 baseline and the reassessment period and the issues
5 that we have around that. And we have several other
6 presentations, and I'll try to get through in pretty
7 short order with a brief comment period behind each
8 one, and then we'll try to wrap up and take questions
9 and answers actually in between each one, and again at
10 the end. So we'll try to keep this open as much as we
11 can.

12 As far as the overlap of the baseline and
13 reassessment period goes, sure may appreciate Barbara
14 Betsock's position this morning, and where the DOT
15 sits. As far as where we are, we spend a great deal of
16 time on the Hill, working with the House and Senate
17 members about how to shape this law. I think where
18 we're stuck right now is more of a throughput and legal
19 issue than it is a technical issue.

20 On a system impact standpoint, when you
21 overlap the baseline inspections with the
22 reinspections, you start taking out large blocks of the
23 system simultaneously. That's very, very significant
24 when you consider how that affects capacity, especially
25 in light of the summer load issue that Jim Anderson

1 brought up, and when you consider price volatility of
2 gas.

3 The issue around definitions, we think we're
4 slipping mostly around the definition of facility, that
5 the DOT is taking a definition of a work facility as
6 meaning a specific site. Whereas, when we talked in
7 the House and Congress -- the House -- their
8 interpretation of facility was the system. That is
9 significantly different. Fundamentally, that's where I
10 think we're slipping on each other right now.

11 The Patel report and the ASME B31.8 document
12 provide a technical foundation that show very clearly
13 that once you're done with the baseline inspections and
14 you mediate the findings, per these technical
15 guidelines, the interval is way beyond these numbers.
16 It's not a technical issue. We have to comply with the
17 law. But I just want to make sure that the group is
18 clear. The problem is not a physical problem. The
19 problem is the issue about the law, and the issue about
20 impact on throughput. And those need to be the drivers
21 in sorting this out.

22 The overlie of the baseline and the
23 reassessment period -- Congress deliberated on this
24 explicitly at great length during the -- when they
25 drafted the legislation. A couple weeks ago, February

1 in Houston, second workshop on integrity management,
2 Graham Hill stood up and walked through this at great
3 length, and it's noted in the OPS notes. Matter of
4 fact, somewhere here -- this is an RSPA document
5 number. It records the transactions at that workshop.

6 And when you read a quote summarizing what he said,
7 "Graham Hill does not think the reassessment period
8 begins until after the baseline period." Period. That
9 was a direct question asked of the man. That's what he
10 said. So I think when you talk about what the law
11 says, and what its intentions are, we may need to go
12 back to the legislative process and ask them for
13 clarification. Because fundamentally, they took that
14 into consideration in the development of the law.

15 You look at some of Tozan's (ph) office staff
16 made a press release following one of the bills'
17 releases and they said "All pipelines would be
18 reinspected every seven years following the ten year
19 interval." That was the thinking of the legislature
20 when they were developing this law. If there's not a
21 clarity in the law to reflect that, we need to go back
22 and revisit it.

23 But the primary driver here -- I think when
24 you look at the overlap, you look at the EEA report
25 that was put together by INGAA and AGA to try to

1 reflect what is the impact on throughput and price of
2 gas to the customers on different intervals. You start
3 to see that in the baseline period, what you find is
4 you have the most extensive outages for facility
5 modifications. It seems to make sense. You have the
6 most extensive load on the service industry as they
7 gear up. That seems to make some sense. You have the
8 most extensive outages for remediation. Duke Energy
9 and a couple of other operators have a great deal of
10 inline inspection history behind them. Typcially what
11 we're finding is that historical inspection data
12 indicates that you find an order of magnitude more
13 actionable anomalies in the baseline inspection, the
14 first inspection, than you do on reinspection
15 intervals. I see most of the operators shaking thier
16 heads yes. That is a very important, fundamental
17 concept to understand.

18 The way the baseline period will roll out,
19 very likely, is you will have people that can pig --
20 they'll pig right away. No facility modifications.
21 You'll get some system interruptions and you'll have
22 some remediation issues. The people that can't pig
23 will have system outages to make the systems modified
24 to accommodate pigs and do the isnpections. They will
25 then come down again very shortly to do -- when the log

1 runs come back to them -- to make immediate repairs,
2 and then they will schedule the following year or years
3 the scheduled inspections. So those systems would be
4 coming down two or three times to accommodate the
5 baseline inspection efforts. And that is very
6 fundamentally important, in how much the facilities are
7 going to be coming down during the baseline period.

8 The baseline represents a huge block of
9 capacity interruption, because you're changing from
10 where you are now to a different place, and as you
11 change, you're going to have significant outages just
12 to make those deltas happen. Yes, of course.

13 MS. GERARD: I believe the EEA report is part
14 of the docket?

15 MR. DRAKE: Yes.

16 MS. GERARD: Do you have one on?

17 MR. DRAKE: I have one on here and I will
18 file it to whomever you want me to hand it to.

19 MS. GERARD: I just want to ask one question.
20 Did the EEA report in the estimates, consider
21 modification, testing, and repair -- all three of them
22 -- quantified the effect in calculating the estimates?

23 MR. DRAKE: Terry can talk about that.

24 MR. BOSS: The EEA report simplified the
25 process by lining up all those times together, say

1 example, for pigging, a pipeline will be out a total of
2 30 days. What Andy is emphasizing is that it may be
3 out 15 days the first time, another ten days the next
4 time, another five days. They don't necessarily occur
5 all the way. The other thing the EEA report did assume
6 was that it was perfect information, and perfect
7 cooperation between all the companies when they're
8 doing this, wherever they need to coordinate it. And
9 we are excluded from doing that from a competitive
10 purpose because of the marketing rules that we're
11 operating under. So it assumes best case scenario that
12 everybody knew what the other guy was doing and was
13 doing it at the right time.

14 MR. DRAKE: It also did not consider the
15 magnitude of repairs necessary. We discounted that as
16 basically a fundamental obligation on behalf of the
17 system, but it does impact outage.

18 MS. GERARD: Are you making corrections to
19 those estimates to consider that it was only based on
20 perfect scenario? Are you doing any modifications to
21 that estimate?

22 MR. DRAKE: I don't think they're going to
23 redo the report. I think all that we had intended to
24 do is perhaps provide a paper qualifying that, we can
25 put on the docket as an attachment to it. But the

1 report took a year to develop. I don't think we're
2 going to try to gerrymander the report at this point.

3 MR. BOSS: It is very difficult to make some
4 of these broad, and the HCA definition has probably
5 changed about six times since we ran the original
6 report, so we keep trying to hit a moving target on
7 what we're talking about.

8 MR. DRAKE: Well, that's a fundamental
9 concept that needs to be preserved here, is we took a
10 best guess shot, based on 31.8, of what we thought the
11 scope of this thing was, and we based the report on
12 those fundamental precepts or assumptions. Some of the
13 assumptions, we're seeing here, and some you're going
14 to hear about are radically outside the assumptions
15 that were inside that model, and they will change very
16 significantly the amount of pipe that's out, the amount
17 of length the pipes are out, and the cost impact of the
18 rule. And those are all -- but like Terry said, we're
19 trying to hit a moving target, even still today.

20 I think the take away here is that the
21 resulting supply interruptions and the price volatility
22 for the customer are exponential. Many of us that
23 understand commodities trading, understand that those
24 that watch California understand that. When you're
25 dealing with taking a certain block of the

1 infrastructure out, let's say ten percent is just kind
2 of a guide number, a very idealistic number. It
3 discounts the whole sequencing of outages from one year
4 to the next -- let's say ten percent of something.
5 It's just a number. You have a ten percent system
6 capacity outage, what you see in the overlap is that
7 you start looking at overlapping -- if you look at the
8 reassessment intervals, are one every seven years,
9 that's basically 14 percent a year. When you're
10 looking at the baseline, you're looking at a ten year
11 period, so you have one-tenth, ten percent.

12 But when you start the reinspection interval
13 while the baseline is still occurring, you're in
14 essence starting to interfere capacity on up to 20-24
15 percent of the system a year, for three years in a row.
16 That is very dangerous. Very dangerous. It is not --
17 that was not the intent of Congress. We talked about
18 this at length with them.

19 The concern here is that these numbers don't
20 mean that ten percent of the system is going to be out
21 for the year, it means that ten percent of those
22 facilities will be out for some period during the
23 year. But price volatility reacts exponentially as the
24 system capacity diminishes. And as that number
25 doubles, the price volatility, and the cost go

1 exponential. This is just basic economics and price
2 demand curves.

3 The point being, when you go from ten to
4 twenty, it's not twice as much impact, it's four times
5 as much impact. So our cost per year goes from an
6 estimated \$300 million dollars total estimated, to
7 somewhere around \$900 to a billion dollars, when you do
8 that, during those three years. This is very
9 significant. This is very significant. I can't
10 believe the FERC representatives aren't somewhere up on
11 the ceiling right now.

12 MS. GERARD: Point of clarification. When
13 you say your cost goes up, are you talking about cost
14 of operations or cost of gas to the consumer?

15 MR. DRAKE: Both. Both. We discount the
16 cost of making the repairs, period. It is not included
17 in our model, or any discussions that we're having
18 here. Mostly we're talking about the price of gas to
19 the customer, because of the availability on the stock
20 market. We all remember things like -- well, look at
21 the current market today. Jim Anderson -- New York --
22 the stock price of gas is 10. We're not even dealing
23 with the HCA issue or the integrity rule right now, and
24 the stock price of gas is \$10 or more dollars in some
25 places. California -- okay -- when you squeeze the

1 capacity just a little bit, price volatility doesn't
2 react linearly, and that's an important concept to keep
3 in mind here.

4 This is what we think Congress intended to do
5 -- this ten percent per year through the baseline, and
6 then start the reassessment once the baseline of the
7 system is done. Again, it's fundamental to the word
8 facility.

9 We'd like to talk about what the baseline
10 implies. There is a great deal of previous information
11 that's out there. We don't want to see that
12 information discounted. I don't think you do either.
13 The current rule is very vague about that, and even
14 kind of shuts out some of the data. The baseline
15 implies that this is the first inspection ever. That's
16 not the case in many places. Operators, a lot of
17 operators, have inspection data prior to 2003, and the
18 operators should not be -- those that have been
19 proactively inspecting, should not be penalized,
20 because there's a lot of inspection data out there
21 before 2003 and before 1997, or whatever the other date
22 is. You want to try to encourage the bringing of that
23 data into the system.

24 This is an example of perhaps how you could
25 view a penalty. If someone had, down at the bottom, an

1 inspection that was prior to 1997, let's say, under the
2 rule that inspection is discounted. They're not
3 allowed to consider it. They're obligated to inspect
4 during the baseline period. And if they actually count
5 the baseline -- if they actually count that baseline
6 inspection, they could be obligated to inspect that
7 section, even though it's been inspected and remediated
8 very early in the baseline period, which doesn't make
9 any sense at all. In actuality, the operator is almost
10 better off completely discounting the old inspection
11 data, completely not acknowledging that it ever
12 existed, and just ranking the system as a low priority
13 system and scheduling it way out to the end of the
14 baseline period. That way they don't have to do three
15 inspections -- two or three inspections prior to
16 getting to that inspection.

17 We know that's not the intent, it's just some
18 of the mechanics that are at work here. We need to try
19 to straighten out some of those mechanics.

20 Consideration of previous inspection data --
21 the reinspections are technically defined by the Patel
22 (ph) report. They are also defined by the ASME
23 guidelines, the national consensus standards, and it's
24 a function of the testing vehicle, the types of
25 accuracy, the repair criteria, the system corrections,

1 the effectiveness of modifications of system controls,
2 and the operating stress level. All those things need
3 to be, as they are in the Patel report and ASME, rolled
4 into some sort of integral -- integrally combined
5 together to make an educated and scientifically-based
6 decision on when to schedule a reinspection.

7 The use of confirmatory direct assessment
8 during the baseline period, which is 2003-2012, as a
9 reassessment tool and a process control verification
10 are technically founded. They're done by operators and
11 have been done by operators for quite a while. And
12 they're essential for lines that have already -- have a
13 baseline section that wasn't done in accordance with
14 B31.8S and we want to try to encourage the use of that
15 old data. And we fully support CDA and we think it's a
16 viable tool to minimize the load during the baseline
17 period, which is all important in the net out to the
18 customer.

19 Back to Jim Anderson's point. We want to do
20 what makes sense here. If you've already inspected and
21 you've already fixed it, certainly that information is
22 useful and you want to encourage the incorporation of
23 that data into the decision.

24 This slide just illustrates the point of
25 going back and using the old data, using the Patel,

1 using ASME to integrate that old data regardless of
2 when it was done. You want to use that and bring it
3 forward to make an educated decision about how to and
4 when to reinspect the pipeline.

5 In summary, we think it's critical that you
6 eliminate the overlap of the baseline and the
7 reassessments to minimize the impact on throughput
8 between 2003 and 2012 due to the magnitude of the
9 baseline effort. We think that the legislature -- that
10 was explicitly discussed with the legislature, and we
11 think that they explicitly took that into
12 consideration, and it needs to be clarified, even if we
13 have to go back to the legislature and ask them for a
14 special discussion and even a paper on their intent.

15 We want to encourage the use of previous
16 inspection data, including data from multiple prior
17 inspections, irrespective of when it was conducted.
18 There's a whole host of information out there, older
19 than 2003, and older than 1997, that you want to
20 encourage the incorporation and use of. It should be
21 used in conjunction with the Patel report, the B31.8
22 report, and CDA done during the baseline period to
23 minimize the impact during the baseline period.

24 We think that the performance venue also
25 offers a viable avenue here to lower the impact during

1 the baseline period, and it should be accessible
2 immediately for those with sufficient data. It should
3 not be pursued recklessly. It should be done on some
4 sort of clear, technically-based criteria. And it
5 needs that clear, technical-based criteria to be shored
6 up in order to execute against it for ourselves, for
7 the regulating community, and for the confidence of the
8 public.

9 That closes my presentation. And with that,
10 we will turn it over -- you want to take questions now?
11 We can handle a few questions now and then -- yes.

12 MS. GERARD: On your last comment, were you
13 actually proposing or putting on the docket alternative
14 proposed, clear criteria for access to the performance
15 approach?

16 MR. DRAKE: I think we want to include that
17 in our proposal, yes. That thing works like state of
18 the art, don't serve any of us, and some of the things
19 that were referred to in the preamble as state of the
20 art, aren't really that important to the decision of
21 the integrity of the pipe. GIS systems are not germane
22 to how healthy the pipe is. That's just how healthy
23 you are -- how fast you can make decisions about
24 information. And I think those things need to be
25 ferreted out.

1 MR. ISRANI: I'd like to start, for the
2 panel, the question about reassessment. Language of
3 the law, I would like our Chief Counsel's office to
4 clarify for you when the reassessment process begins.
5 That's not my area. But the reason for safety was the
6 concern also why reassessment be here, on those
7 segments which are done earlier, begins when those
8 segments are completed at the baseline. The law
9 requires, and the current proposal regulation requires
10 that 50 percent of the highest risk pipelines to be
11 done in the first five years. And those are the
12 segments which Andy's talking about will see an
13 overlap. And the reason they were picked up in the
14 first five years is because those are risky ... that is
15 based on all the data that you have collected. And
16 just because you don't want assessment and fix those
17 anomalies, doesn't mean that risk is -- the risk never
18 stops. This is a continuous process.

19 If you had threats there, problems before,
20 you might have problems again. And that's the reason
21 why the reassessment period is decided on. I thought
22 evading the law, what the law requires, and what ...
23 is, but this is the concept that people with the safety
24 look at. This was just a comment to explain why we
25 took the approach also.

1 MR. DRAKE: I would offer counterpoint that
2 the ASME and B31.8S documents, as well as the Patel
3 report clearly show that once you remediate the
4 baseline findings, the interval numbers we're talking
5 about at seven are extraordinarily conservative.
6 Extraordinarily conservative. And I think we all know
7 that in our minds, and when you just think that these
8 pipes have existed for years, all of a sudden, there's
9 an urgency to not only get out and inspect it, which we
10 believe for the baseline period, but now there's an
11 inordinate need to come back again and very quickly --
12 we agree that we need to come back, but I don't know
13 what the urgency is. I think there needs to be a
14 counterbalancing of the issue about throughput and
15 technology weighing in here.

16 MR. SHER: Andy, I have a question. If
17 hypothetically you had already smart pigged an entire
18 system, are you suggesting then that when the baseline
19 period starts, that's when you would start your seven
20 year reevaluation on that system? Or would you wait
21 ten years from now to start the reassessment of that
22 system that you had already smart pigged?

23 MR. DRAKE: I think that you've got a pass
24 through that phase test here -- that's why I keep
25 saying you've got to integrate the B31.8S document and

1 its repair criteria and how long those intervals can
2 actually technically be. The criteria in the Patel
3 report and the date that was inspected -- I mean if it
4 was inspected 1986, that's a long time ago. It adds
5 value, but certainly the value is diminishing, and I
6 think we need to start -- you may have to schedule that
7 reinspection very promptly inside the baseline. But I
8 think for the most part we're saying that anything past
9 -- older than 2003 needs to be reinspected, reassessed
10 during the baseline period. You're trying to figure
11 out when is really all you're trying to do.

12 MR. SHER: I guess for the record, I'm Phil
13 Sher of Connecticut. And then a question for Mike.
14 Mike, you just added on something that I wasn't sure I
15 understood, and I'll ask you to clarify. Are you
16 saying if you already smart pigged and you found
17 problems and you fixed them, that's an area that's of
18 very concern because you might have new problems in
19 that area? that becomes one of the more sensitive
20 areas to put in the first half?

21 MR. ISRANI: I'm saying that your risk of
22 threats is not one. There are so many threats on the
23 pipeline, and if one segment of the pipeline, or a
24 certain area or section of the pipeline you have
25 considered yourself to be this schemed up to do in the

1 first five years, then those are the areas we think
2 need more concentration, even though you may have
3 initially done the tests, found some anomalies, fixed
4 things. If there was corrosion from some external
5 sources, you're not changing the soil around it.
6 You're not changing the conditions ... or anything in
7 the ground. You still have those. So the same things
8 can again attack the pipeline.

9 MR. DRAKE: Doesn't it depend on what you
10 find or what the reason for the anomaly is? I mean if
11 the anomaly was the original construction, that's not
12 going to happen again in the future --

13 MR. ISRANI: And that we have one time
14 requirement test.

15 MR. DRAKE: So you would have to evaluate why
16 you have the anomalies. You can't just automatically
17 assume they're going to repeat. They may or may not.

18 MR. ISRANI: But that's the meaning of
19 anomaly. There are some anomalies which are time-
20 dependent, some which are time independent.

21 MR. DRAKE: I think Graham Hill addressed
22 this issue very clearly at least in the meaning on the
23 workshop there, and I really encourage you to go back
24 and review his presentation points, because he was very
25 clear in saying that it's important that the DOT not be

1 micromanaged here, that they try to follow the intent,
2 but that they also use their head. If during the
3 baseline inspection significant issues are found, the
4 DOT may require, and they have those tools currently
5 available to them, to specify the reinspection
6 interval. They can mandate it. And the operators have
7 the obligation to do it.

8 But instead, what we're doing is we're just
9 assuming that everything is a massive problem, and
10 we're just closing it down. And in doing that, you're
11 going to create significant capacity issues in years 8,
12 9, and 10. Just for no added value on safety.

13 If there aren't any other questions, I'm
14 going to turn the podium over to Alan Eastman and he'll
15 talk about direct assessment. One last point, I will
16 be filing on the docket, a copy of ASME B31.8S for the
17 record. I will be filing a copy of the EEA report for
18 the record. And there was one more -- the Patel
19 report, the DTI report on interval ... for the record.

20 MR. EASTMAN: Good afternoon. Moving on. My
21 name is Alan Eastman. I'm with Pacific Gas and
22 Electric Company. I didn't put my title up there,
23 Andy, because that and two cents doesn't buy you a cup
24 of coffee. I'm the manager of the system integrity
25 group located out in Walnut Creek, California. And as

1 I said earlier, we have roughly 6000 miles of
2 transmission pipeline.

3 I'm here to talk about direct assessment.
4 And I might just start this out with saying that in
5 general, industry concurs with OPS on the use of direct
6 assessment and confirmatory direct assessment basically
7 in the same principle and context that they wrote in to
8 the NPRM. What we're going to offer today is some
9 points of clarification and some suggestions to
10 possibly improve the wording so we can have consistent
11 application out there in the industry.

12 We're going to talk about four basic things.
13 We're going to provide some general comments on direct
14 assessment, and some specific comments on each of the
15 direct assessment techniques that are in various stages
16 of development. We're going to suggest some necessary
17 enhancements to the wording of the rule. We're going
18 to talk a little bit about confirmatory direct
19 assessment, but we aren't planning on getting into any
20 real technical discussions. Maybe if there's questions
21 during the Q&A period, we can try to field those. And
22 then we're going to talk about a product that we intend
23 to provide with our formal, written comments to the
24 rule, and it's a product that's going to have a
25 comparison between the DA language in the NPRM versus

1 what's currently in industry consensus standards, the
2 NACE 0502 and the B31.8S.

3 In general, we do believe that direct
4 assessment is very pivotal in our operators' integrity
5 assessment program, especially for those pipelines, as
6 Jim mentioned, -- he picked on me, so I'll pick on him
7 -- that present huge challenges for other techniques,
8 challenges that might range from economic impacts to
9 impacting customers and significantly impacting the
10 environment.

11 Jim threw some numbers up there and I don't
12 want to talk out of place, a lot of the cost estimates,
13 the benefits and the costs that were derived a year or
14 so ago from AGA and INGAA were well done. Where we
15 stand currently with our company, is direct assessment
16 is running us about \$28,000 per mile. We have a pretty
17 structured formal process. In comparison, some of
18 those lines that we're using direct assessment on --
19 we're looking at \$250,000 per mile to retrofit those
20 lines for pigging, and that's not considering the cost
21 of impacting the environment or impacting the customer.
22 That's just the retrofit costs.

23 One last comment that I wanted to make on the
24 pigging of a lot of those lines that Jim mentioned,
25 just getting the pressure differentials to move that

1 device three to five miles an hour along those systems
2 is basically not doable as our systems are currently
3 designed. We definitely are supportive of direct
4 assessment. We are supportive of their being a formal
5 structured, auditable process.

6 We also feel that the baseline time period
7 and the reassessment intervals in the NPRM containing
8 the direct assessment need to be the same as the other
9 assessment methods offer, such as ILI and hydrotesting.

10 There's some remediation language in the NPRM
11 that seems to be somewhat -- a little inconsistent with
12 even the general remediation methods mentioned in the
13 same rule. And we have a few suggestions for that.

14 Terminology, as we've all talked today,
15 terminology needs to be consistent, we especially think
16 in the direct assessment area. Needs to be consistent
17 with industry consensus standards that are already
18 issued like B31.8S, and the NACE standard.

19 There is some research that's continuing on
20 some of the DA processes, like ICDA and SCCDA, and we
21 want to continue encouraging to work together with the
22 regulators for all of us to understand what those are
23 doing for us.

24 Specific comments regarding external
25 corrosion direct assessment. Mike had mentioned this.

1 The rule should, to the degree practicable, reference
2 the NACE consensus standard 0502 that's already been
3 issued. It does a good job of laying the framework for
4 how an operator is supposed to conduct his assessment.

5 All ECDA wording that is not adding value in the NPRM,
6 or might add confusion in terms of duplication of
7 wording, should be removed, and we recommend that it
8 either be referenced directly to NACE standard or as
9 you see in this last bullet, B31.8S is basically
10 revised to reference the NACE standard, so however we
11 choose to do it, we recommend that the language be
12 cleaned up and aligned well. And again, the baseline
13 assessment period and the reassessment intervals need
14 to be consistent with the other assessment
15 methodologies.

16 Internal corrosion direct assessment research
17 is underway in a standards group called TG 293. The
18 scope is very similar to what's already been published
19 with ECDA. It's going to be a structured, formalized
20 process to insure consistency and quality, and one last
21 thing, auditability.

22 Part, by the way, for those that don't --
23 maybe don't -- aren't fully understanding of what DA
24 is, one of the key first steps of the DA process is to
25 collect all the necessary data to answer the question,

1 is it feasible or not to use that tool, that
2 methodology to address the threat that's been
3 determined to be on the pipeline. So again, that's a
4 very important part of the DA process.

5 And then the plan is to go ahead and modify
6 B31.8S to incorporate that by reference.

7 Stress corrosion cracking direct assessment.

8 There's a group, 273, that's presently developing a
9 standard that will address the process to be used for
10 direct assessment of stress corrosion cracking.

11 Similar types of wording, the thing is going to produce
12 a structured process, it's rigid, it's formal and
13 auditable. It'll provide guidance to operators -- are
14 conditions worth stress corrosion cracking threats
15 exist and how to find that threat. And then the B31.8S
16 document will be modified in some form. I think right
17 now the understanding is that it may be modified either
18 by reference or as an appendix.

19 Confirmatory direct assessment. The pipeline
20 industry does support confirmatory direct assessment
21 for -- as a process for the reassessment period. We
22 definitely feel it's going to add value in pipeline
23 integrity and pipeline safety. And actually some value
24 for us in reliability of those pipelines. Basically,
25 life extension of those pipelines. We don't want to

1 pig and pig and pig and just keep letting the corrosion
2 process occur. You want to do something to address the
3 threat in a preventative manner, and confirmatory
4 direct assessment will definitely add value there. It
5 is anticipated that the CDA methodology will be
6 embedded into the B31.8S standard.

7 So in summary, again, this is envisioned to
8 be a short comment type of presentation, we definitely
9 feel that direct assessment processes are essential,
10 especially under certain conditions. The NPRM language
11 that's currently there is not bad. I think you guys
12 did a pretty good job. We do have some suggestions
13 that we think could bring clarification, and we agree
14 that the confirmatory direct assessment process is
15 critical in moving forward.

16 The one thing that we -- we weren't prepared
17 to go through this word by word, line by line. We
18 intend to give a draft copy, I believe, before leaving
19 today. We're putting together a product, cross
20 reference table, that's going to compare specific
21 sections in the NPRM relative to the wording around DA,
22 and what complementary standards in the industry -- how
23 they address it, and then we're just going to be real
24 specific about what we recommend. Whether or not we
25 recommend the NPRM wording to be left as is, as you see

1 on the bottom two lines of this comparison, or whether
2 we have some wording that we want to suggest and
3 recommend that would add additional clarity. This is
4 just one page out of that product.

5 So maybe I made up some time for Andy. Are
6 there any questions? Yes, Stacey.

7 MS. GERARD: Mike, you need to correct me
8 here, but as I recall there were three specific
9 questions we asked in the preamble where we, on
10 purpose, departed from what we thought the NACE
11 standard was going to be by way of enhancements, and we
12 asked the specific question about whether the
13 enhancements we suggested were worth the cost for the
14 benefit that we thought. And maybe, Mike, you could
15 drill down on those.

16 MR. ISRANI: I mentioned during my
17 presentation that we have used the language from the
18 NACE draft standard as much as possible. NACE -- we
19 call it a standard, but it's a recommended practice.
20 It has the language, sometimes, which cannot be
21 enforced. So we had to modify some wording there to
22 make it enforceable.

23 But the key differences that we found, that
24 we had, are the one where the immediate indication are.
25 What we added was to reduce the pressure 20 percent

1 until all excavations are completed, which was not in
2 the current standard, but it was being discussed there.

3 The second one was scheduled indication. We
4 say that -- NACE standard also say that continue
5 excavation until you find -- you continue excavation
6 until you find that there are no more anomalies there.

7 There we put a factor that until you find the
8 corrosion depth is less than 20 percent SMYS. In fact
9 we just put some numbers there to determine which is
10 okay or not, from an enforcement point of view.

11 And third was the excavation one in a most
12 suspect area. We use the term most suspect area, based
13 on your risk data, instead of what NACE says, randomly,
14 one. Because one area where you want to excavate.

15 So these are some minor differences, not too
16 much, and as I say, some of the language that we have
17 modified because NACE is a recommended practice where
18 they use language which is not, sometimes, enforceable.

19 And we did put in the preamble, a question
20 asking public to comment whether we should just adopt
21 NACE standard as is, or retain our additional
22 exceptions there. So we encourage the public to
23 comment on that.

24 MR. EASTMAN: I'd like to make a comment,
25 Mike, on your three issues and then invite the audience

1 to -- or somebody else who would like to comment. The
2 NACE standard, you're correct, as written, is not
3 prescriptive enough for any auditor or any operator to
4 take to the table and say we're meeting this. They can
5 take it to the table and say we're meeting, in
6 principle, the requirements in the NACE standard. The
7 additional language that you added in the NPRM, while I
8 believe a lot of it is good, still doesn't do that. It
9 still doesn't tell an operator what an immediate
10 indication is. It doesn't tell an operator what a
11 severe close interval survey indication is. And how do
12 you integrate that in with ECDG indications?

13 I'm a firm believer that every operator needs
14 to have that as a procedure, that can be audited. I
15 can go on record that on behalf of PG&E -- I don't know
16 about all the operators, I think they would agree --
17 we're going to address the specific issues in that
18 table that we provide you about things like pressure
19 reduction. While I know the thought is well meaning, I
20 do not agree that pressure reduction should occur until
21 all immediate indications are excavated.

22 The process of DA requires for you to be very
23 conservative in the initial integration of your data.
24 One of the reasons that you do a direct examination,
25 which is a third step of the process, is to validate

1 your criterion for that particular pipeline, that
2 particular coating, and that particular environment.
3 It's very likely that an operator would say, hey, I've
4 got five immediate indications, and I'm going to start
5 excavating them. It's very likely they will not find
6 any deleterious corrosion such as that would require a
7 pressure reduction ...

8 So until such time that you validate your
9 criterion, as an example, those kinds of language --
10 that kind of language in the rule, I think, is
11 misleading and I think it will lead to inappropriate
12 pressure reductions. There will be times where we do
13 find things that we need to reduce pressure until we
14 can continue excavating all the immediates. I agree
15 with that. But the process is set up, properly
16 applied, to deal with those case by case issues.

17 So we will provide comments in that table on
18 how we suggest we address that, and it will be
19 consistent with the other remediation requirements. I
20 just ask that you consider them in how that process
21 works. Okay, thanks.

22 MR. GUSTILLO: Good afternoon. My name is
23 Paul Gustillo with American Gas Association. I just
24 want to be on record first that I am not a
25 metallurgist, so please don't weigh on me as a dense

1 person. You'll have to figure out who the other two
2 Andy was talking about.

3 I'm going to talk about low stress pipelines.
4 You've heard a lot referred to low stress pipelines
5 today. I'll be very brief. I have only about five
6 slides. I just have got to go over some key points.
7 Two slides on key points.

8 Low stress is generally operating at or below
9 30 percent SMYS. This is recognized in the docket.
10 Mike referenced that in one of the questions OPS is
11 asking. For low stress pipelines, and again, backing
12 up a second, most of the LBC operators, LBC
13 transmission operators you're hearing about, have such
14 pipelines. Almost 50 percent of the LBC transmission
15 lines operate below 30 percent SMYS.

16 The second bullet I have here, the process is
17 the same, no matter what stress level pipe you are.
18 For a transmission line, you follow the same integrity
19 management process even if it was a 72 percent SMYS
20 pipeline. The difference is in the assessment
21 techniques and method that's schedules, like Jim
22 Anderson referred to. These pipelines -- they need
23 flexibility. You need to put your resources where you
24 need them.

25 Third point, OPS does recognize that the

1 failure modes are different for low stress pipelines.
2 They leak versus rupture, and it justifies different
3 assessment methods. This is all in the NPRM, in the
4 preamble, and we support that. The option to utilize
5 the PIZ tabulations is appropriate for low stress
6 pipelines. I think Jim referenced some pipelines in
7 his state, but overall, 50 percent of the LDC
8 transmission lines are below ten inches. This is based
9 on the 2000 and 2001 transmission annual reports. So
10 that's a lot of miles.

11 And then, just to make sure people
12 understand. Even though there are low stress
13 pipelines, there are going to be some that are going to
14 be inline inspected. There are going to be some that
15 are pressure tested, and a whole lot that are going to
16 be assessed with direct assessment. But these
17 operators of these low stress pipelines do need the
18 flexibility to choose other methods so that they can
19 put the resources where they're due.

20 And also I mentioned service continuity. We
21 saw the picture that Jim Anderson put up of the
22 operator in North Carolina.

23 That's all I have, and this is really -- this
24 is kind of where we are with low stress pipelines. I
25 guess we have 30 days to do all this. The first and

1 foremost is to refine the HCA definition. You heard a
2 lot about the PIZ calculation. That definitely has a
3 big impact for low stress pipelines. Your circles are
4 smaller. I think -- I don't know if Jim referenced,
5 but looking at -- a lot of the pipes are below ten
6 inches. Six inch pipe at 150 pounds, you've got a PIR
7 of 50 feet. Typical transmission line in a
8 distribution system. Eight inch line, 200 pounds,
9 you've got a PIR of 78 feet. Ten inch line, 300
10 pounds, you've got a PIR of 120 feet. This is either
11 assuming like X42 pipe. So they're pretty small
12 radiuses. So we want to refine the HCA definition
13 first. And I guess these are parallel paths.

14 We want to evaluate the CDA process, from the
15 low stress pipelines perspective. Maybe there's
16 appropriate language we could put in the CDA -- into
17 what CDA means in the ASME B31.8S in the proposed rule
18 and so forth, that might be appropriate for low stress
19 lines.

20 And then we want to develop some specific
21 preventative and mitigative measures by threat. There
22 are some out there. You know, ASME B31.8S and the
23 whole table on preventive and mitigative measures.
24 They are general, so we are going to try to see if we
25 can come up with more specific measures, by threat. If

1 corrosion is your threat, will enhanced CP monitoring
2 get you there? If you have a remote monitoring system
3 where you can just call up a CP test station anytime of
4 the day and get your readings, would that count?

5 So we're going to develop these three areas,
6 and then as we develop these, we will respond to the --
7 I believe in the NPRM there are four specific questions
8 relating to low stress pipelines regarding the
9 assessment intervals, how CDA is applied, what direct
10 assessment is applied and so forth. So this is kind of
11 our action plan. Very general. We will provide more
12 specifics on this to the docket. Any questions? Yes.

13 MS. GERARD: Is that the option that was
14 presented earlier by the joint industry proposal?

15 MR. GUSTILLO: Yes, that's the two options
16 that Daren presented was one, we go down the strict
17 Class 3 and 4 definition, which a lot of LDC operators
18 may end up choosing. And the other option is yes, the
19 strict pure circle option.

20 MS. GERARD: So what you're saying in that
21 bullet is that you want to be able to reduce the size
22 of the zone for the calculation proportionate to the --

23 MR. GUSTILLO: Stress level of the pipe, yes.
24 Do you have any questions? Thank you.

25 MR. JOHNSON: Good afternoon. I'm Dave

1 Johnson with INRA (ph) Transportation Services Company.

2 I'm vice president of pipeline safety there. And Jim
3 talked, when he first spoke this morning, talked about
4 how he got elected to the chairmanship. I got this
5 speaker's spot in much the same way. I left a meeting
6 for a little bit, came back and had my name next to
7 this presentation. So I understand how that goes.

8 We're going to address, talk for a few
9 minutes here, and I do have a few more slides than some
10 of my colleagues up here, with a couple topics, but I
11 know everybody's getting tired and wants to go, so
12 we'll probably get through this pretty quickly.

13 There are a few issues about dents and third
14 party damage that we do want to address, and the
15 approach that we want to take on these are to first
16 review the proposed requirements, talk about the risk
17 factors and detection issues and outline the challenges
18 inherent in meeting these requirements, and then talk
19 about some recommendations that we will flush out
20 further in more formal comments.

21 As we go through this, we do want to note,
22 and want you to keep in mind that the fact that a
23 condition exists is not exactly synonymous with a
24 threat. There are some nuances of differences there,
25 so please keep that in mind as we go through this.

1 We saw this slide earlier this morning, but
2 it's some very good information. It points out a
3 number of things. One is that not all threats to
4 pipelines are equal or equivalent or are having the
5 same impact on the safety and integrity of pipelines.
6 This kind of information can help us determine where
7 the greatest opportunities for improvement are and once
8 we choose to address one of them, then we can try to
9 select the appropriate actions and techniques for it.

10 And you will see that third party damage is
11 right up there at the top, and if you look at the red
12 part of the bar is on the pipe portion of the system.
13 That's kind of what we're going to focus on. And as
14 you go down towards the -- farther down, the previously
15 damaged pipe, we believe, is a pretty fair
16 representation of the delayed third party failures,
17 where third party damage has occurred some time in the
18 past and failed subsequently, as opposed to failing at
19 the time the damage is incurred. And then dents, we
20 believe, are a subset but by no mean the entire
21 category of the construction and installation defects.

22 We really don't have the granularity of data to sort
23 everything out exactly, but that's kind of where these
24 fit.

25 So we're going to talk about the dents

1 portion first. The proposed rule has these
2 requirements: immediate repair for dents with metal
3 loss, cracking or stress risers and other remediation
4 for six percent dents on pipe body and two percent on
5 welds. There's some other requirements, more detail in
6 there, but that's basically it. You compare that to
7 B31.8S requirements and they look kind of similar, but
8 there are some differences down at the bottom. Again,
9 immediate on dents with gouges and scheduled at
10 something under a year for the six percent and two
11 percent, and 31.8S also had dents with cracks and
12 mechanical damage in that. We'll come back to that.

13 The risk factors -- and this bears a little
14 bit of examination. We think that plain pipe body
15 dents and I think our experience shows us this, are not
16 much of a risk under most operating conditions. If we
17 look at the bottom half dents, bottom half of the pipe,
18 they're generally constrained and stable. That's some
19 of the construction type things: there's a rock in the
20 back fill in the bottom of the ditch, you have the
21 weight of the pipe plus the overburden backfill holding
22 it there. It's not moving, it's not flexing, it's not
23 doing anything. Chances are, it's been hydrotested.
24 It's not going to go anywhere.

25 Top half dents are maybe a little different

1 story. Those are certainly less constrained or could
2 be considered unrestrained, or unconstrained. They
3 probably do have fairly long fatigue lines. They're
4 certainly more of an integrity issue if they're
5 accompanied by mechanical damage, and with operating
6 conditions changing, we do have a complete study
7 underway that we think will bear on this, to help
8 provide some guidance into the seriousness of these
9 things.

10 Dents on welds, which are also covered in
11 here may be more susceptible to fatigue, depending on
12 the microstructure and material properties -- I gave
13 myself away. I'm one of the metallurgists. Yes,
14 thanks, Andy. And dents with cracks or gouges are
15 subject to unpredictable failure. We don't have the
16 means to characterize the nature of that damage and the
17 material properties well enough to be able to say this
18 thing will last X number of days, weeks, years, cycles.

19 So we know the severity, of course, depends on the
20 depth of the crack or the gouge. These things we
21 believe, need prompt investigation or mediation,
22 regardless of where we find them on the pipe.

23 Now, how do we find them? With some
24 difficulty. Geometry pigs -- well, in line inspection
25 -- there's essentially two kinds of pigs that we use --

1 geometry pigs and MFL pigs. The geometry pigs are
2 unlikely to see the seam welds, neither the double
3 submerged arc welds or the ERW welds. May sometimes
4 see the GSAW (ph) welds, because of the weld bead.
5 There's generally no feature on the ERW welds that the
6 geometry pig will pick up. They also can't see
7 mechanical damage per se. They can see some
8 deformation, but they are incapable of determining the
9 cause of that deformation, whether it's a rock, a back
10 hoe, dent, a dent with a gouge -- they don't know. MFL
11 pigs also are unlikely to see the seam welds. They
12 can't see all the dents. They can't size the dents and
13 there is some loss of resolution due to lift off of the
14 sensors as they pass over the dents. So the
15 detectability and ability to actually characterize
16 metal loss in dents is less than it is in the body of
17 the pipe.

18 I think this -- thinking about this and some
19 of Rick's comments this morning -- kind of don't sell
20 what we can't deliver. So we don't want to sell the
21 public, the regulators, ourselves on saying these
22 techniques will tell us everything we need to know
23 about these features or these threats, because they
24 don't.

25 So the challenges that we have. One is the

1 timing of the remediation. The 180 days in the NPRM
2 versus a year in 31.8S. A year does provide access to
3 a complete operating cycle in order to accomplish any
4 remediation. It allows time for the collection and
5 integration of the data, and then the scheduling with
6 some of the factors listed. Jim noted in his -- in one
7 of his talks that system demands have changed. Is that
8 the red line? Yes, the dark. I don't do well with
9 colors -- they shouldn't give me colored presentations.

10 The lower line represents probably how our systems
11 operate traditionally, some time in the past, with
12 usually one seasonal or one annual peak. And in the
13 north, typically that annual peak was in the winter, in
14 the south with power plant loads, that annual peak was
15 probably in the summer. But with more homogenization,
16 more types of uses of natural gas, demands on the
17 system now are starting to look more like the upper
18 curve, and that means that when you're trying to do
19 remediation work, you have smaller, shallower windows
20 in which to accomplish this, and what it can lead to is
21 by the time you run a pig, get the results, analyze the
22 results, your time is about -- your 180 days is about
23 out and you go out and try to do something and you're
24 in a peak. If you suspect you have damage on your
25 pipe, I don't know about most of you all, but we

1 mandate a pressure reduction when we excavate to
2 investigate pipe when we suspect any damage. And that
3 pressure reduction, that capacity reduction can then
4 occur during peak times and then you're impacting the
5 markets.

6 We don't think that on these types of defects
7 that the difference between 180 days and 360 days is a
8 significant risk factor. We think that the fatigue
9 study will help define that for us.

10 So our challenges are remediation
11 requirements, conditions that can be difficult to
12 accurately characterize. We are working on the fatigue
13 work. We have the corrosion work that I think has been
14 previously filed in the docket, and the corrosion rate
15 data suggests that it doesn't -- the corrosion rates
16 are not real high, so the 180 days/360 days shouldn't
17 be an issue there.

18 Recommendations for how to handle these are
19 to use the results of our current studies to develop
20 the appropriate criteria. Identify possible R&D needs
21 -- that was mentioned earlier today as well. And focus
22 on the potential threats, what we think are the real
23 potential threats here, which are unconstrained dents,
24 upper half dents in pipe, dents in pipe that are
25 subject to fatigue mechanisms. Some of the reports on

1 vintage pipes that were being done will help us
2 characterize what kinds of pipe that might be, and any
3 dents with likely mechanical damage, regardless of
4 where they occur around the circumference of the pipe.

5 To do this we will use data that we get from
6 ILI, although it's not perfect, and then data
7 integration which we hear a lot about these days for
8 other factors that may come into play that lead us to
9 think that there may have been some outside damage to
10 the pipe in that location.

11 Part 2. Third party damage. This'll be --
12 TPD will be the acronym for this, for the rest of this.

13 In the NPRM it says we have to address this through
14 preventive measures and assessment tools, deformation
15 or geometry tools, and direct assessment under certain
16 conditions -- and again, there's a lot more detail in
17 the NPRM on this.

18 31.8S takes a little bit different approach
19 and says this about these, that you can get some
20 deformation information from the high res geometry
21 tools, and as we said a couple minutes ago, they don't
22 identify -- or the MFL tools don't identify third party
23 damage too well, and they have limited utility in
24 sizing deformation of damage in the dents.

25 The risk factors are there for this. We saw

1 from the chart at the beginning, this is third party
2 damage is a significant factor in about a third of pipe
3 incidents, so this is something that needs some
4 attention and is an area where improvements can
5 potentially be significant. You can make a lot of
6 headway here. That same data indicates that about 88
7 percent of the failures are at the time of the damage,
8 and then the other 12 percent of these are under delay,
9 so that the delayed third party damage failures are
10 only about four percent of the incidents. Now, that
11 doesn't mean that you should ignore them by any means,
12 but that's a small subset. So keep that in mind.

13 Detection. It's kind of the same, same set
14 of conditions and limitations that we talked about a
15 couple minutes ago, and what we don't want to do -- and
16 we talked about this earlier today also -- is expend a
17 lot of resources on something, whether it's defining
18 HCAs or chasing a defect that we can't see very well --
19 spend a lot of resources doing something that doesn't
20 give us much return. That's not how to improve safety.

21 The challenges that we have on this, are we
22 do have or it appears that a reading of the proposed
23 regulation mandates inspections. The tools that we
24 think are marginally effective -- they're certainly not
25 as good as we can say, measure corrosion with some of

1 these, and we don't think it's an appropriate
2 allocation of resources to -- really what you're
3 addressing is four percent of the incidents, just the
4 delayed third party damages.

5 Prevention can impact all of them -- 32
6 percent, about a third of the total can be impacted by
7 prevention. Also periodic inspection is not really the
8 way to manage a defect that is not under the pipeline's
9 control, the timing of it. We don't know when it's
10 going to occur. It's somebody with a backhoe out there
11 that may not have called OneCall that does this, so it
12 could occur the day after we do an inspection, the day
13 before we do the next inspection, any time in between.
14 It's a time-independent occurrence and the time
15 between when it occurs and the time to when, if ever,
16 it fails, is indeterminated by us also. So running pigs
17 is not the optimum way to manage this.

18 Recommendations. Focus on prevention.
19 Common Ground Alliance which OPS was instrumental in
20 kicking off, we think is an excellent vehicle and
21 organization to try to focus some effort on this. We
22 think it's been a good organization. It's a good idea.
23 We support it.

24 Effective measures are available and have
25 been noted -- and a lot of these are listed in the

1 proposed regulations. We agree with those. We think
2 that they're good and should be employed. Further we
3 support strengthening the national OneCall law --
4 OneCall system. We support thier use, their
5 enforcement. We think there should be no exemptions to
6 them. If you're going to dig, you need to call.
7 Everyone. And we think OneCall systems, working with
8 the CDA would be an excellent place to enhance
9 excavator education programs, to provide some
10 uniformity and standardization. Identify those folks
11 and get a good message out to them.

12 So, to finish up, we think we should not
13 mandate inspections specifically targeting third party
14 damage, but we will look for it, and to the extent that
15 we see indications of third party damage in our inline
16 inspections, and we need to be looking for those
17 indications as we have the logs read and graded, we
18 integrate that data as part of our risk assessment --
19 that's the RA up there -- with data such as crossings
20 that we know occur on our pipelines, OneCall tickets
21 and any other excavation, utility activity we have out
22 there, anything that indicates, that would correlate
23 with possible third party damage.

24 Investigate and remediate as necessary, and
25 again, continue to identify R&D to pursue goals for

1 detection, monitoring and characterization of these
2 defects.

3 MS. GERARD: Understand your point.
4 Appreciate it. As it relates to improving, prevention
5 and the third party work, could you go back to your
6 last slide, or you're gone. Okay. As it relates to
7 oversight, what would be prevention work? Do you
8 believe that there's enough detail in what we have to
9 be able to oversee the adequacy of the operators'
10 evaluation of susceptibility to third party damage? I
11 mean, remember the purpose here, where you're making
12 recommendations about adjustments, take away the
13 requirement here, rely on prevention more here. You're
14 asking us to consider making these changes, and I'm
15 asking if there's enough detail currently available to
16 provide the operator with the criteria necessary for us
17 to evaluate the adequacy of efforts in that prevention
18 area? Or does more work need to be done in that area?
19 You're suggesting to put more eggs in that basket,
20 it's a better payoff.

21 MR. JOHNSON: That's not the prevention
22 bullet. This is the prevention bullet. The public ed
23 markers, patrols, surveillance and detection,
24 technology. I think this area needs to be flushed out.
25 Some of the things that are going on, and I don't know

1 if Pat wants to talk about some of the things that are
2 going on in CGA in damage prevention, but some of the
3 other things that we know are going on are the
4 development of what we think are improved standards for
5 public ed programs that sets some goals and suggests
6 some ways to assess the effectiveness of those
7 programs, which just -- throwing a bunch of stuff out
8 to people is not going to get it. Pat, why don't you
9 talk about Colorado.

10 MS. GERARD: I just want to say we're
11 extending the comment period another 30 days. We've
12 got two weeks in this month and another 30 days and
13 part of my question goes to, should we have additional
14 public discussion, say next month, on issues like
15 prevention and mitigation, which I don't -- which are
16 not as fully fleshed out in the proposal as some other
17 aspects relating to HCA, and I'm just suggesting that
18 if you want us to consider putting more eggs in that
19 basket, we might need some more structure in that
20 basket.

21 MR. JOHNSON: Yes, and Pat's going to say a
22 few words, but there is a section in the NPRM that
23 talks about these kinds of factors, and I think they're
24 properly placed and they need to be in there, so we
25 support that, and I think our comments will reflect our

1 support of those.

2 MR. CARY: Pat Cary, with El Paso. Just
3 mentioned my name and half the room cleared out.
4 There's a lot of good things that are happening within
5 the Common Ground efforts. A lot of those are heavily
6 supported by the OPS through some of the grants that
7 were provided. One of the comments that you've made up
8 here with the no exceptions is key to its success of
9 the OneCall program.

10 From El Paso's perspective, we've had a lot
11 hits this year that have been based on contractors
12 working for entities that have exemptions from state
13 OneCall laws. So that's one area that we could use
14 some help that Common Ground really isn't addressing.
15 They're not a lobbying effort, and they're strictly
16 staying away from those things.

17 Some of the things that they are doing are
18 collection of data -- it's going to be a voluntary
19 program, but there will be a good tool to use on a
20 nation-wide basis, web-based application that would
21 collect data and when you're able to analyze that,
22 similar to what they're doing in Colorado now, it gives
23 you a real good tool to focus in on areas within --
24 geographic areas within your pipeline systems that you
25 may have more susceptibility to third party damage.

1 I think those are probably two of the key
2 points that are currently going on, what Common Ground
3 is doing now.

4 MR. THEODOS: I don't think you have to worry
5 that half the room left because you got up to speak. I
6 mean it's like, oh, my gosh, it's another industry
7 person, fifth one in a row. So if the other half of
8 you don't leave, my presentation is also very short.
9 And as Paul Gustillo said, I'm also in the same
10 category of not being a metallurgist, or a dense
11 metallurgist. Oh, what I'm talking on. I'm talking on
12 pressure testing of the pipeline.

13 I'd like to go over what's in the current
14 regulations. The goal is to address potential for
15 material manufacturing defects. Hydrotesting or
16 pressure testing in general is one of the primary
17 inspection techniques for both baseline and
18 reassessment periods. In fact, it's even mentioned in
19 the Act that Congress passed.

20 The next couple of bullet items are details
21 from the proposed regulations, and Mike's gone over
22 regulations in a lot of detail, so we can save some
23 time and move on to the fifth one.

24 The operators have to provide written
25 justification as for why it isn't possible or

1 economically feasible to pressure test a segment. This
2 is in the preamble where it's talking about when you
3 can use DA. It also mentions that operators must
4 perform a pressure test at least once in the life of
5 the segment unless the operator can demonstrate that
6 pressure testing is not necessary to address this
7 threat.

8 And finally, it mentions in both preamble and
9 in the regulations themselves, that you conduct the
10 pressure testing in accordance with subpart J of 192.

11 Or, as what's in B31.8S standard, there are a
12 few items in there in section six. It's appropriate
13 for addressing time-dependent and manufacturing and
14 construction defect threats. Also, when used -- when
15 raising the MAOP of a pipeline, or raising operating
16 pressure above the historical operating pressure. And
17 you test it to 1.25 times the MAOP.

18 B31.8S also contains a couple pages or so of
19 details on the minimal data sets, risk assessment,
20 response mitigation methods, assessment intervals and
21 performance measures.

22 As far as some issues that we've identified
23 and come up with -- first one is it raises significant
24 -- criticism would be -- pressure testing all
25 pipelines at some point in their life raises safety and

1 reliability issues due to the difficulties in
2 dewatering the pipeline, involving winter freeze-offs,
3 introducing internal corrosion causing bacteria, and
4 generally causing problems with reliability of service
5 to customers. This would be particularly true on the
6 LDC system and on interstate pipeline systems that feed
7 directly to the LDCs, essentially the group systems or
8 laterally market lines.

9 But natural gas production and underground
10 storage operations has spent enormous investments on
11 dehydration, slug catchers, filter separators, drips,
12 tanks, et cetera in production and storage facilities
13 to strip out water before it enters the transmission
14 and distribution systems. And the reason's obvious,
15 because even a little amount of water in these systems
16 can cause horrific problems for the consumers due to
17 freeze-offs. This rule would have us put probably
18 thousands of barrels of water into the pipeline system,
19 including the systems that are right up against the end
20 user, the consumer.

21 The second item relating to this is for
22 cities or communities which are single source feeds off
23 the pipeline -- calling up on Jim Anderson's comments
24 earlier. It would take anywhere from -- oh, we've
25 averaged about 18 days for conducting pressure tests,

1 but those consumers would be out of gas service for
2 that time period. So there's also significant issues
3 on customer outages for single source feed cities.

4 Definition of -- we also need some clarity on
5 the definition of significant cyclic stress that would
6 require pressure testing throughout the life of the
7 pipeline. We're unclear as to what that means on page
8 4287. Also if there is, there is, as was mentioned
9 earlier, there's some differences on the cyclic nature
10 of gas pipelines and liquid pipelines on the cyclic
11 issue.

12 Third bullet item, likewise, what is the
13 basis for the operating condition changes? Is this per
14 B31.8S or is this per something else? Need some
15 clarification on that.

16 Proposed rule takes what I would view as a
17 course approach to the issue that's not really founded
18 on data and science. It's almost like the intent is to
19 pressure test all lines so that you could check off an
20 item on a list, versus pressure testing lines that have
21 an identified issue that needs to be investigated and
22 addressed in a timely manner. Think of all the threats
23 that are out there -- 22 threats. A lot of what's in
24 the rule, a lot of what's in the discussions across the
25 table today is prioritizing, addressing High

1 Consequence Areas, and Moderate Risk Areas, timing of
2 issues, with the recognition that not all threats, not
3 all segments of the pipeline et cetera, are created
4 equal.

5 Yet in this case, it's you've got to pressure
6 test everything. Well, why? Some things may have an
7 issue and some don't. Why are we addressing the ones
8 that don't. We need to be concentrating time and
9 resources on the other threats that do pose higher
10 issues, higher threats.

11 Next point is that there is limited, or
12 possibly even no justification to have to pressure test
13 low stress pipe due to material, manufacturing defects,
14 particularly for those other than having historical
15 operating problems. It's also a higher environmental
16 impact, other than the obvious impact of additional
17 digging, we'll have large water disposal problems. In
18 our system at least, we use bactericide in the water.
19 We can't just dump that into a creek. In most places
20 you can't. In some parts of the country, probably out
21 west, I'm thinking from the desert environment -- we
22 don't operate there, but I would imagine there's also
23 an issue of acquiring the water, acquiring large
24 volumes of water to do this.

25 And finally, significant gas transportation

1 capacity outages beyond what was in the EEA analysis.
2 The volume of pressure testing in the original EEA
3 impact study was lower because it was assumed that only
4 pipe with a realistic risk due to manufacturing
5 construction defects, would have to be pressure tested.
6 It was never anticipated that all the pipe would have
7 to be pressure tested regardless of actual risk.
8 Testing of all pipe in HCAs would have a bigger impact
9 on the transportation capacity outages and resulting
10 impact on the gas prices in the market place.

11 Industry has some ongoing research activities
12 to help provide more scientific basis for identifying
13 where we need to prioritize our efforts and what to
14 address quickly. Patel's (ph) been working on a report
15 on vintage pipe. The PPIC is HSD's name. I believe
16 there is a corporate title name going -- change going
17 on there, but they'll be working on a report. It'll
18 essentially provide a summary of the Patel (ph)
19 material and a practical users guide, if you will, on
20 how to extract the data that's in the Patel report.
21 There's also another ongoing Keifer -- Keifner (ph)
22 report, studying the cyclic pressure effect on pipe.

23 The goals of the research is to add technical
24 basis so we can make informed decisions to maximize our
25 ability to address where there are real threats.

1 Summary of a few points here. We, the
2 industry, need to complete the reports, these research
3 reports, for use in the rule making. Both parties,
4 or really all parties, there's more than just us and
5 OPS, need to work together, and I believe we are as
6 evidenced in today's discussion, to close this issue
7 based on science and be sure that the threat is
8 effectively and efficiently addressed in a timely
9 manner. Third, the final rule needs to incorporate the
10 findings, recommendations, and practices of the ongoing
11 research so as to better align the B31.8S. And the
12 fourth, we need to focus our efforts where there is a
13 real risk, as opposed to blindly testing everything.

14 I believe it is quite likely that the vast
15 majority of the pipe that would be subjected to this
16 pressure testing obligation has survived decades of
17 successful operations, which is a very good test, if
18 you will, of a line for manufacturing construction
19 defects. A key concept of the proposed rule is the
20 integration of data to prioritize where work needs to
21 be done to effectively the safety concerns. The
22 requirement to pressure test all lines, regardless of
23 the actual risk, if any, goes contrary, I think, to the
24 whole premise of what we've been trying to accomplish
25 in the rule and here in today's discussions.

1 And that concludes my remarks. Questions.

2 MR. DRAKE: Just to beg your endurance a few
3 more minutes. What I want to try to do is just close
4 industry with a recap on some points that Dan Martin
5 brought up this morning, some of the key issues here,
6 so we stay focused.

7 I think, in summary, for the most part, this
8 is a very good technical effort in the rulemaking, to
9 the degree that it's based on science and technology,
10 it is a very good effort. And although Mike probably
11 feels like he's been on some sort of carpet bombing
12 effort here, where people are just beating the crud out
13 of him all day long, it is really a well-founded rule.

14 There are some key issues that we are
15 concerned about because of the cost issues that we're
16 exposed to here. This is something we supported before
17 the rulemaking came out. We felt, when we watched the
18 liquid rule, that our credibility was at stake -- both
19 the regulators and industry -- and we tried to step up,
20 as Mark indicated earlier, with a very intense,
21 technical effort to evaluate the protections afforded
22 by the current code, the gaps, and the need to close
23 those gaps. We offer technical reports to shore up our
24 basis for action and define how to move forward
25 physically. And we still support that. Our executives

1 are on record of that. And even though it's a very
2 expensive rulemaking, we're still supporting it.

3 But I think it's something that we need to be
4 very careful and a few issues, to be careful about the
5 scope growth and explosion to where they're not based
6 on technology. Because the loss of control of the
7 scope here can create costs that are extraordinary.
8 This is the biggest rulemaking ever passed against this
9 industry, period, from the pipeline safety standpoint.

10 And you've got to understand that. The costs we're
11 talking about that we are even agreeing with, and not
12 arguing about, are very, very significant.

13 The fact that you're looking systemically at
14 the pipe is a positive, but when you start losing some
15 of the filters and some of the technology, and you
16 start looking blindly at big scope or big issues, the
17 scope growth becomes inordinate. And we end up with
18 tremendous cost growth in this rule with no value. And
19 those should be earmarks, where your ears should come
20 up and look for those and trim those back because they
21 waste our efforts, they waste our resources, and sooner
22 or later they're going to interfere with our customers
23 and the reliability of service of this product to the
24 end user.

25 The issue of overlap is one of those issues.

1 I think we need to spend some energy on that. We
2 understand where you are legally. We need to come
3 together, get with the legislative folks, and define
4 their intent. If that's where it comes out, that's
5 where it comes out. But I think we need to get with
6 our customers, if that's a fact, and get them ready for
7 the fact in years 8, 9 and 10, they will see huge
8 interruptions in service and brace themselves to that.

9 I think that the use of DA and CDA are
10 essential tools to help manage the load during the
11 baseline, and that we need to try to incorporate as
12 much of the previous data and the previous efforts that
13 have been done as we possibly can, and use our head,
14 not for a hat stand, but analytically to help us
15 navigate through this thing.

16 The low stress pipes are a different animal.
17 They fail in different modes -- that's where the 30
18 percent came from, it kind of approximates the leak/
19 rupture threshold of pipe -- physical mechanics, again,
20 the metallurgists at the table. It fails differently,
21 it's a different animal. We need to look at it a
22 little differently. They need some flexibility down
23 there because of the volume of pipe down there, the
24 proximity of the customers and a whole host of other
25 things. I think that's well founded, technically.

1 The issue on dents. I think this, in
2 conjunction with third party damage and materials,
3 there's one common theme here, and that is fingerprint
4 the bad guys, hunt them down, and execute against them.
5 Don't chase everybody. In chasing everybody and
6 blindly looking out there at these gigantic
7 populations, you ignore technology and you waste
8 resources exponentially. That there's good things here
9 that we can use to try to trim that down and we need to
10 incorporate that into our thinking.

11 I think on third party damage, we don't want
12 to create a false sense of security. I think, when you
13 look out at the public and say to them, we can stop all
14 incidents, you are not credible any more. You are not
15 credible any more. Someone needs to stand up and have
16 the guts to say, I can't stop somebody who doesn't call
17 OneCall, ignores all the ramifications and goes out and
18 digs and hits my pipe with a hoe. 88 percent of the
19 time, it fails time independent. Boom. I don't know
20 what I can do to stop that. We're going to have to get
21 better on prevention. We're going to get better on
22 communications. We're going to have to get better on
23 education. We're going to have to get better on
24 monitoring. We don't want to chase third party damage
25 with pig -- that's insane, a false sense of security to

1 the public that we can actually manage that problem
2 with a pig. That's ludicrous and we need to start
3 telling people that. It's the wrong answer. And I
4 agree with Dave. It doesn't mean that when you're
5 pigging you don't look for it, but you don't chase it
6 with a pig.

7 That's a very fundamental, important element
8 here about controlling resources. Yes, we can do some
9 things to characterize where, when, all those kinds of
10 things, and we need to. When an operator sees fresh
11 excavation in their area of patrol, shouldn't they do
12 something. Hey, yes. We can help characterize that,
13 shore that up as action items, but chasing it with in
14 line inspection tools is the wrong answer. You're
15 already way behind the curve here.

16 Diminished pipe materials -- I think we can
17 do a lot of things. The current research efforts are
18 in place. Yes, I know that some of the data that's out
19 there about the focusing of this area as a problem area
20 may be anecdotal, but opening up to all those old
21 materials, irrespective of the anecdotal data is
22 reckless. And we need to guard against that.

23 With that, that would close industry's
24 position. I know we've taken a lot of time here, but I
25 think it was very important and very constructive to

1 have this dialogue, and I want to thank Stacey for
2 giving us the opportunity to come here and try to
3 prevent -- I mean try to present our technical basis
4 and our thinking. Because I think our goals are very
5 similar, now we need to try to come together and
6 communicate as best we can, to help land this
7 rulemaking practicably and effectively, where we shore
8 up our credibility with the public, and we are able to
9 execute against this in some sort of effective and
10 reasonable means for both parties.

11 With that, I'm going to close the panel up
12 here unless there are any other questions or comments
13 from the floor. I'll turn the mike back to Stacey and
14 Mike. Thank you.

15 MS. GERARD: These were prepared
16 presentations. Are there any comments that are
17 forthcoming from the audience that may be spontaneous
18 or just were not scheduled? Anybody in the room is
19 welcome to come to the mike.

20 MR. BYRD: A few random thoughts --

21 MS. GERARD: State who you are.

22 MR. BYRD: Phil Byrd with RCB. And some of
23 these things have been said, maybe a little differently
24 or not quite as specifically during the panel, so I
25 just wanted to summarize five things.

1 Number one. Comment to OPS, don't be afraid
2 to follow the math in both directions when it comes to
3 Potential Impact Zones.

4 MS. GERARD: We're not.

5 MR. BYRD: You know, readily admit, it ought
6 to get bigger. Let's accept the fact that it ought to
7 be smaller than 300 feet, and even if you can't fit a
8 house in a circle, well that just means it's not an
9 HCA.

10 The second. There was a comment on one slide
11 about if you've got a rural church that's in your
12 circle and that's all, maybe that ought to be an MRA.
13 I would like to expand that concept to if you have an
14 identified site and that's the only thing that would
15 cause you to be an HCA, maybe that part should only be
16 considered as MRA. Just throw that out for additional
17 consideration.

18 Third, the NAPSIR chairman mentioned you ought
19 to make this a subpart. I couldn't agree more. I read
20 the Federal Register every day and it gets very
21 confusing when you're trying to figure out, is this I
22 that follows H, is this the I before I get to the
23 double-i, and when you have that happen several time on
24 the same page, you think, well, maybe we could just
25 draft this a little differently, it would be easier to

1 follow.

2 The fourth thing, and this is for farther
3 down the road, but I'll go ahead and plant the thought.

4 When you get around to interpreting this rule, don't
5 throw away the incentive that people might have to put
6 their entire system into their program. And the reason
7 I'm saying that is, you know, when we deal with liquid
8 operators, we're currently dealing with a rule, and
9 they say, well, I'll just consider all of my pipes to
10 be HCAs.

11 (inaudible question)

12 MR. BYRD: Well, yes, but you know, no good
13 deed goes unpunished, and you might do that, but you're
14 still going to have to do all the work that you'd have
15 to do to figure out what would have been an HCA so that
16 you can pass the audit. And I think it would be a good
17 thing for public safety if the agency gave people some
18 latitude. Say, if you throw all your pipe into this
19 program, then we won't require some of the analysis
20 that we would have required to say it's in or out. Did
21 I make myself clear?

22 MS. GERARD: Perfectly.

23 MR. BYRD: Okay. And then the other thing to
24 consider, when you talk about your 20 percent pressure
25 reduction under certain situations, don't forget the

1 front end of the transmission systems, where people are
2 trying to get into the transmission system, not
3 thinking about the distribution downstream. You know,
4 there, you reduce pressure 20 percent, you reduce
5 capacity, but you can still operate. If you're on the
6 upstream side of the transmission system and you say
7 you've got a pipe that operates 1100 psi, you're trying
8 to get into 1000 psi system. Well, if I've got to
9 reduce my pressure by 20 percent, I don't reduce by
10 volume, I shut my pipe in because I can't get into the
11 1000 psi system any more. So be aware of that
12 situation when you talk about any kind of random
13 percentage pressure drop because of some indication
14 that you found. You might have a bigger impact than
15 you think.

16 MS. GERARD: Thanks, Phil. Anybody else with
17 the energy or courage?

18 Well, this has been a really informative day.
19 I don't think there's anybody who's been in the room
20 today who hasn't learned something. Among the things
21 that we've learned that's been a big surprise is there
22 could be a very extensive alignment of industry, state
23 and public views, which I think was surprise for a lot
24 of people.

25 I know it's Friday afternoon and everybody's

1 worked very hard to prepare very cogent presentations.
2 We've just extended the comment period. That's to
3 give people more time to fully flesh out concepts they
4 prepared today, or issues that we've identified that we
5 need more information for the record. In finalizing
6 this rule we need to operate off the record, and the
7 more explicit the record is, the better it is for us.

8 We'd remind you that we have a public
9 technical advisory committee meeting in two weeks, on
10 Thursday. At that meeting, we're hoping to have a vote
11 on the cost benefit of this rule. There's a lot of
12 information that's been presented here that I would
13 like to see provided to the members of the advisory
14 committee immediately so that they can read it. The
15 purpose of the gas IMP discussion on Thursday the 27th
16 is a briefing to try to get those members who will have
17 to vote on the NPRM up to speed.

18 But remember, when they vote, which we expect
19 to be in May, hopefully, they can vote with amendments,
20 and they can prepare those amendments in advance. When
21 we went through this process with the liquid rule, I
22 think the committee had prepared in advance, different
23 members had prepared as many as nine amendments which
24 were voted on with the proposed rule, and that kind of
25 preparation takes time, effort, coordination, detail.

1 We can have conference calls with the committee, and so
2 you all put a lot of work into defining your positions,
3 and I suggest that's a good investment, but that you
4 need to prepare for some additional investment over the
5 next few weeks to really fully maximize the investment
6 you've made.

7 So that applies to everybody, whether they
8 prepared and presented today, or they have material
9 they still want to put in front of the advisory
10 committee. We cannot conclude the rulemaking without
11 that vote, and that vote is very important, and
12 remember that when we go to final rule, we will account
13 for each issue that the advisory committee took up
14 individually. If we accept it, we say why. If we
15 don't accept it, we say why. So I think it's very
16 important to continue the effort that has gone into
17 preparing for today.

18 I thank everybody for their professionalism.

19 I think that the tenor of the meeting was extremely
20 highly professional and at the same time I think it was
21 informal enough that people really felt comfortable
22 communicating. And so I think this is really a good
23 day for pipeline safety, and we have more ahead. Thank
24 you very much.

25 (Whereupon, at 4:20 p.m., the hearing in the

1 above captioned matter was adjourned.)