1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
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4	MEETING ON NRC RESPONSE
5	TO STAKEHOLDERS' CONCERNS
6	***
7	PUBLIC MEETING
8	***
9	Nuclear Regulatory Commission
10	Auditorium
11	White Flint Building 2
12	11545 Rockville Pike
13	Rockville, Maryland
14	Friday, November 13, 1998
15	
16	The Commission met in open session, pursuant to
17	notice, at 9:05 a.m., the Honorable SHIRLEY A. JACKSON,
18	Chairman of the Commission, presiding.
19	
20	COMMISSIONERS PRESENT:
21	SHIRLEY A. JACKSON, Chairman of the Commission
22	EDWARD McGAFFIGAN, JR., Member of the Commission
23	NILS J. DIAZ, Member of the Commission
24	JEFFREY S. MERRIFIELD, Member of the Commission
25	GRETA J. DICUS, Member of the Commission
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1	STAFF AND PRESENTERS SEATED AT COMMISSION TABLE:
2	JOHN C. HOYLE, Secretary
3	KAREN D. CYR, General Counsel
4	ERIE NYE, Texas Utilities Company
5	JOE F. COLVIN, Nuclear Energy Institute
6	CORBIN A. McNEILL, JR., PECO Energy Company
7	JAMES T. RHODES, Institute Nuclear Power
8	Operations
9	HAROLD B. RAY, Southern California Edison Company
10	FOREST J. REMICK, Former Chair, ACRS
11	DAVID LOCHBAUM, Union of Concerned Scientists
12	WILLIAM D. TRAVERS, EDO
13	SAM COLLINS, Director, NRR
14	JAMES P. RICCIO, Public Citizen's Critical
15	Mass Energy Project
16	JILL LIPOTI, Radiation Protection Office,
17	State of New Jersey
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1	PROCEEDINGS
2	PROCEEDINGS [9:05 a.m.]
3	CHAIRMAN JACKSON: Well, good morning and welcome.
3 4	Today, the Commission meets with a number of stakeholders in
5	a reprise of a meeting held on July 17th. Again, we meet in
6	a round table format, or at least half round, in an attempt
7	to promote open dialogue.
8	Our goal today is to assess where we are relative
9	to the opinions and feedback of those who have observed NRC
10	over time and to obtain comments to fine tune our programs

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and processes further, as necessary.
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              We value your experience and insights in assisting
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      in NRC as we better develop and align our processes to carry
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      out the fundamental mission of protecting the public health
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      and safety
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               As I noted in the last stakeholders meeting, the
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     Commission is fully aware that those present at the table
     this morning are not our only stakeholders. Although our
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      last meeting of this type was in the ACRS meeting room, we
      found the high level of interest required a larger forum, so
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      we are using our auditorium today.
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               Those of you here represent diverse organizations
     with a stake in NRC activities. We found the last
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2.4
      stakeholder meeting to be very constructive. I was
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      encouraged by the level of candor, and I would like to
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      invite a similar level of interaction at this meeting.
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               Before we begin, I would like to provide a short
     summary of what has transpired since we last met. As you
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      know, on July 30th, the Commission appeared before the
      Senate Subcommittee on Clean Air Wetlands, Private Property
      and Nuclear Safety. In considering the feedback received
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      from both this Congressional hearing and our last
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      stakeholder meeting, as well as other inputs, I tasked the
     Executive Director for Operations, the EDO, with
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      identifying, defining, and prioritizing those areas which
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      support NRC long-term performance goals and which need
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      near-term attention
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               I identified a number of candidate issues for
      consideration: inspection and performance assessment,
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      enforcement, license renewal, license transfers, the
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      transition to a risk-informed, performance-based framework,
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     NRC organizational structure and resources, and other
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      specific areas requiring timely decisions.
               This identification, definition and prioritization
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     has occurred. It is captured in a living plan, maintained
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     by the EDO, that has been concurred in by the Commission.
      We now are in the process of executing this plan which
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      addresses the various concerns and which supports our
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2.4
      performance goals. The NRC has worked to the milestones
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     established, modifying the plan as appropriate, and has
      made, I think, good progress in execution.
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               Through actions on specific issues, including the
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      candidate issues identified in my tasking memorandum, as
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     well as others subsequently added, our initiatives address
     the clarity of NRC requirements and NRC expectations; NRC
      predictability, objectivity and timeliness; direction of
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      focus; quality of NRC-licensee interactions; implementation
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      of NRC programs; and the size of the NRC.
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               While stakeholder input definitely opened our eyes
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      to a number of concerns, for example, the unnecessary burden
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     associated with Severity Level IV violations, it had a
      concurrent benefit in that it allowed us to prioritize
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      certain activities in ways that provided the best mutual
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      benefits to ourselves, our licensees, and the public. This,
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     in my estimation, underscores the importance of frequent and
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      candid communications across every level of our respective
     organizations.
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               I am confident that, as a result of our
      interactions with our stakeholders, we have developed a
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      series of action which will result in efficiencies and
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      increase in effectiveness for the NRC, its licensees, and,
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obviously, the public, in a way that does not diminish, in

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fact, which should enhance the level of safety afforded the
     public. We provided the last update of this document to you
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      in preparation for this meeting.
               As I suggested at the INPO CEO Conference last
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      week in Atlanta, I have characterized what we have
     undertaken as "responsible responsiveness." This is an
      excellent opportunity to take stock of what we have been
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      doing, of where we are, and of the challenges before us in
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      the near term.
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               Our focus in all of this is on outcomes, not
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      merely outputs. To touch on some of the progress we have
     made since the last meeting of July 17th, let me list what I
     believe to be a few of those outcomes.
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               Our license renewal reviews are on schedule and,
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      by all reports, the reviews are being conducted in a
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     disciplined and responsible manner.
               Our adjudicatory schedules are aimed at completing
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     license renewal in 30 to 36 months.
               The Commission has promulgated an expedited rule,
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      which allows more informal hearings for license transfers.
      We anticipate that this rule will become final by December
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               Concurrent with this meeting, another meeting is
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      taking place to further clarify reporting requirements for
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      power reactors.
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               We have implemented a stronger focus on risk, that
      can be seen in NRC staff activities in the area of
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     risk-informed decision making, for example, the diesel
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      generator allowed outage time extensions.
2
               We are addressing other appropriate burden relief
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     opportunities. The goal of the efforts is to "let go" of
     that which is not risk significant, and to focus more
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5
     closely and carefully on what which is, as we conduct
     inspections, review licensing actions, assess licensee
      performance and take enforcement actions.
               Regarding the NRC performance assessment process,
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      we have made real progress and achieved significant buy-in
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      at a recent NRC workshop.
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               Outside expertise, in the form of Arthur Andersen,
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     has been used to strengthen the NRC skills in mapping
     certain key processes and identifying opportunities for
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14
      efficiency, and effectiveness improvements.
               Additionally, we have looked into the
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     organizational structure of the NRC and determined that
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      certain changes are necessary. As a result, NRC has
      extended buyout offers to certain groups of managers and
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      supervisors with the intent to achieve an overall
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      manager-to-employee ratio of 8 to 1 -- 1 to 8, excuse me.
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               Now, regarding today's meeting, one of the
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     purposes of our meeting today is to solicit feedback from
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      the assembled stakeholders on the plan, its scope, and its
      schedule. As we are ultimately interested in the efficacy
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      of our actions, we also would appreciate any feedback on
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     whether effects are being felt in the field. Additionally,
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     we would appreciate input on the question of how to measure
     our success going forward, a question of metrics. While we
     agree that improvement is a continuing process, we must
      address the question of how to measure that improvement if
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we are to ascribe the proper worth to our actions.

As those of you who were involved in the last

stakeholders meeting are aware, either as participants or observers, our numbers here at the Commission round table 9 have grown since the last meeting, both on the NRC side and 10 11 the stakeholder side. 12 Before I introduce each participant, let me make a 13 side comment of the idea of a round table. Whenever I have meeting with my own staff, a retreat, we always end it in a 14 15 circle, and the idea of a circle is that if you really have 16 one, you see everybody, so everybody is included, and if you 17 have one and you don't break the circle, then there is 18 continuity. So that is why I think the idea of a round 19 table is important. 20 But let me reiterate again that the Commission 21 appreciates the attention that these meetings have garnered 22 and the willingness to participate that has been expressed. both by our assembled guests, and others who are not here at 2.3 2.4 the table. Endeavors such as these are key to the NRC continuing to improve the level of oversight provided to all of our licensees, while reducing unnecessary burden in 1 regulation. 3 Before introducing the participants, let me touch on a recent issue that has arisen relating to the "necessary burden" and "unnecessary burden," and I step into it knowing it has been controversial. After a series of internal 6 briefings and discussions, earlier this week the NRC staff 8 was directed to reinstate its program for Operational Safeguards Response Evaluations at nuclear power plants. 9 10 This was an internal decision. This program recently had 11 been dropped following budget considerations. 12 The OSRE inspections, as they have been called, 13 have received some stakeholder criticism for being "beyond" the regulatory basis. The Commission previously has stated 14 15 its intent to move away, to the extent possible, from prescriptive type inspections, to a more risk-informed and 16 performance-based format. However, in this case, the 17 18 necessary inspection requirements that are required to meet a risk-informed security program have not been sufficiently 19 documented. In summary, we must migrate to these 20 21 inspections in a disciplined and deliberate manner. 22 Therefore, the OSRE inspections will continue in a 23 more focused way at the 11 remaining facilities, which have 24 not previously been reviewed this way. Additionally, the 25 NRC staff is accelerating an ongoing study to determine the 1 baseline level of performance testing appropriate to ensure that nuclear plants are protected against radiological sabotage and theft or diversion of radioactive materials. 3 4 I have asked that the results of this study, and 5 insights from OSRE findings, be brought to the Commission for its consideration as part of the risk-informed baseline 6 inspection program currently under development. We also 7 will be looking at our requirements and regulatory guidance 8 in this area to ensure that they are adequate and 9 10 appropriate. 11 Let me now introduce the individuals assembled for 12 this meeting. Let me note at the outset that, with the 13 conformation of Greta Joy Dicus and Jeffrey S. Merrifield as NRC Commissioners, we now are at full complement to 14 15 deliberate and to act upon the important decisions the Commission must make. I am pleased to welcome them to the 16 17 Commission, and to reintroduce Commissioner Dicus, and to 18 introduce Commissioner Merrifield to you. 19 Of course, with us again, is Commissioner Diaz,

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who is running late, and I told him I would extend my
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      opening comments to buy time for him to get here, and
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      Commissioner McGaffigan, who, as you can see, is not as
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      nimble a soccer player as he once was.
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               The Commission also welcomes, starting from my
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     right, Mr. James Riccio from Public Citizen's Critical Mass
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      Energy Project; Mr. Harold Ray, Executive Vice President
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      Southern California Edison Company. In addition to being an
3
      NRC licensee, he has been very active in the Nuclear Energy
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      Institute's Working Group on Regulatory Process.
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               Commissioner Diaz, in absentia for the moment.
      Dr. William Travers, he is our new Executive Director for
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      Operations, some of you may not have met him, since October
      the 19th. Mr. Corbin McNeill, Chairman, President and Chief
      Executive Officer of PECO Energy.
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               Commissioner Dicus; Dr. Jim Rhodes, Chairman and
     Chief Executive Officer of the Institute of Nuclear Power
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     Operations. Mr. Earl Nye, Chairman of the Board and Chief
      Executive of Texas Utilities Company. He is also Chairman
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      of the Board for the Nuclear Energy Institute, a
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      Washington-based policy organization representing over 250
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16
      organizations in the nuclear industry.
              Mr. David Lochbaum, Nuclear Safety Engineer with
17
     the Union of Concerned Scientists. UCS, as it is called, is
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19
     dedicated to advancing responsible public policies in areas
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      where science and technology play a critical role.
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               Commissioner McGaffigan; Ms. Jill Lipoti.
22
     representing the State of New Jersey, Dept of Environmental
23
     Protection. Dr. Forest Remick, Former Chair of the NRC
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     Advisory Committee on Reactor Safeguards, Former
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     Commissioner of the NRC, and now an engineering consultant.
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               Commission Merrifield; Mr. Joe Colvin, President
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      and Chief Executive Officer of the Nuclear Energy Institute;
      and Mr. Samuel Collins, Director, Nuclear Reactor
      Regulation.
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               Also present with us today are Ms. Karen Cyr our
      General Counsel, and Mr. John Hoyle, Secretary to the
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      Commission.
               On behalf of the Commission, I thank not only
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     those here at the table, but also members of the NRC staff,
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     Congressional staff members, and those of you in the public
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      and press, present today, or reading this transcript at a
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      later date, for your interest and participation in ensuring
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      that the NRC has processes that maintain safety in a fair
      and consistent manner. The Commission is interested in
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      comments, evaluations, proposed solutions from all
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     participants, and we look forward to an informative meeting.
               We will begin my inviting opening statements from
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      each participant. I ask that questions and comments be
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      withheld until we begin our open discussions. And today I
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     would hope that, in addition to any directed questions that
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      I may have, that those of you who are part of the round
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      table should question and challenge each other. I will try
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      to keep it together, however.
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               We will, in the course of our discussions, be able
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these opening comments. We have reserved a substantial part of the day for this meeting. I would like to note that we have made available, but I think we have ample room here,

to return to cover any information or ideas presented in

4 the lobby of Two White Flint as an overflow area. In

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You will note that there are open microphones here
      in the auditorium. If time permits, and if we can work it
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 9
      out. I may try to recognize comments from the audience on
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      appropriate topics.
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               At this time, we will hear opening statements from
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      our invited guests, and from the Commissioners and NRC
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      participants, if they desire. And I am going to begin to my
      far right with Mr. Riccio.
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               MR. RICCIO: Good morning, my names is James
      Riccio, I am the Staff Attorney for Public Citizen's
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     Critical Mass Energy Project. Critical Mass was founded in
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18
      1974 by Ralph Nader to oversee the nuclear power industry
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      and the high level radioactive waste that they produce.
               We are here this morning for two reasons. First
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     is that splitting atoms is an inherently dangerous activity
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      and needs to be regulated. The second is that Congress, in
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      its inestimable wisdom, has seen fit to decimate this
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      agency. I want to say that Congress, I believe, is pushing
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      this agency in a very dangerous direction. They have
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      abrogated their responsibility to oversee this agency and,
      while pushing this agency toward more performance-based and
      risk-based regulation, we see that the agency is
 3
      simultaneously thinking about wiping out the AEOD. It is
 5
      beyond my comprehension how you can do performance
 6
      assessment when you are not going to assess performance.
               The ACRS has acknowledged that it is the AEOD and
      the data that they have produced that has been able to hold
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 9
      the senior management of this agency responsible. It would
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      be irresponsible to wipe out AEOD. We feel that our
      participation in this meeting, hopefully, will reflect our
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      belief that this agency must regulate, and while every
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      regulatory process can be improved, we would like to see it
      done in a manner in which the public health and safety will
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      be protected and, basically, that we don't want to see this
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      agency torn apart.
               Shifting, over 20 years into this industry and to
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     have -- we are only now defining design basis, seems to me
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      to be a major problem.
               There are two things that have occurred so far.
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      and while I wasn't participating in this first go-round, I
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      did attend the last meeting. There seem to be two things
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      that have been accomplished since the last meeting. One is
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      we have wiped out the SALP program, or at least terminated
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      it temporarily, and the second is that we have wiped out
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      Level IV violations.
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               It seems to me that the agency is like a blind man
      wandering in Gaza without some of this help. Level IV
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 4
      violations, to my mind, are the indicator that would lead
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      you down the path to another Millstone event, and I don't
      think that was good for the industry. I know it wasn't good
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      for the agency. Obviously, our opinions here today are
      going to be very much opposed to a lot of the people at this
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      table, which I suppose is why we were invited. It is a
      pleasure to be here and it is also -- I think it is a very
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     good opportunity to express our views and to make both the
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      agency and the industry that we believe that this industry
      needs to be regulated and can be done both more efficiently,
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      but also with an eye toward the public health and safety.
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      Thank you.
               CHAIRMAN JACKSON: Thank you very much.
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addition, this meeting is being broadcast to both buildings

here at headquarters and to our regional offices.

17 Mr. Ray.

18 MR. RAY: Thank you, Chairman Jackson and

19 Commission. I very much appreciate this opportunity to

20 appear here again

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21 In response to the October 25th letter from the

22 Commission Secretary, I earlier provided specific comments

23 and recommendations for each of the five issues which it

24 raises. My initial comments this morning are only going to

25 touch on a couple of items and expand on them a little more.

16

I believe they will be complementary to some of my
 colleagues here as well.

colleagues here as well.

As many of you know, my friend and colleague here

to the left, Corbin McNeill, chaired a committee on the maintenance rule and its implementing guidance. And he and

6 I share, with very few others, if any, the advantage -- or

the curse, perhaps, I am not sure which, of having worked to

explained to the industry what the intent and promise was of

the rule, at a policy level; to then develop the detailed

10 guidance for its implementation; and, finally, to live with

the results. Virtually every other person who was involved

12 at the beginning either is not now involved in its

13 implementation or has been replaced at least once, and

14 usually more often.

I am not here to complain when I talk about this experience, although it will surely sound like complaining in a minute. Rather, I believe that if we do not learn from this experience, and incorporate the lessons in our action plans for the much more aggressive agenda that we are here discussing today, then we will at least have missed a great opportunity, and, more likely, we will have doomed the agenda to some degree of failure.

One reason I do not feel I can complain about the experience today with the maintenance rule is that I believe this experience was foreseeable, if not entirely avoidable.

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And in this regard, I recently reread Commissioner's
Remick's remarks in dissent at the time the maintenance rule
was adopted. I think they were wise and have proven largely
to be true.

That is, very early in the development of the maintenance rule implementing guidance, it was clear that the means were going to overshadow the ends, and that implementation of a prescriptive process for compliance with the rule would come to dominate achieving the purpose of the rule.

Nevertheless, we, in the industry, went forward on the naive hope that this would not be the case. In hindsight, we should have sooner sought resolution of what today is an embedded problem that may be more difficult to resolve.

16 In the statement of considerations for the 17 maintenance rule, and, again, Chairman Jackson, this is by way of lessons learned that I would suggest we spend a 18 19 minute on this experience, in the supplemental information 20 that promulgated the maintenance rule appears the following statement. "The focus of the rule is on the results achieved 21 22 through maintenance and, in this regard, it is not the 23 intent of the rule that existing licensees necessarily develop new maintenance programs." 24

Thus far, in San Onofre, we have received six

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conferences, but no escalated enforcement. We have found it
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      necessary to deny five notices of violation, two of which
      were withdrawn. In addition to the inspection reports, we
     have received five letters from the NRC, responded with nine
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     of our own, and held three meetings with the NRC off-site.
     As a result, we have significantly revised our program from
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      what we believe to be necessary and proper, and greatly
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      increased its cost.
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               I have recently reviewed all this material and I
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     have no doubt that everyone here would, upon close
      inspection, and I don't exempt my colleague to the right
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     here, conclude that the large cost, both sunk and ongoing,
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      is not justified from any objective safety viewpoint.
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               This experience is by no means unique to the
17
     maintenance rule. Another recent example, most here are
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      probably familiar with the experience of South Texas as they
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      were attempting to introduce risk-informed principles into
     its QA program. What we find is that the regulations and
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      the institutional culture, which is intimately intertwined
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      with the regulations, are complex, prescriptive in
     unanticipated ways, and often seem to defy efforts at
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      reform.
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               Recognizing this, the ACRS has recommended that
      the Commission explicitly adopt what it calls a two tier
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      system as a transitional mechanism. Applying this principle
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      to the maintenance rule, it would have been established in
      the beginning, as part of a second tier, presumably, in
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     which the focus would be consistently directed at the
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      results sought and much less emphasis would be placed on
      prescriptive process compliance.
               The principle lesson from the maintenance rule
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      experience to date supports the ACRS recommendation, in my
      view. It simply isn't possible in many instances to
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     risk-inform requirements which are embedded in traditional
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      prescriptive process-driven regulations and guidance,
      including especially inspection guidance.
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               Now, there is a reason for this that I want to
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      acknowledge and that I believe is important, has important
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      implications for the Commission policy. In very fundamental
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      ways, our assurance of safety is seen as based on process.
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      This is for the good reason that we want to ensure that we
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      maintain large margins of safety and these margins are hard
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     to measure, except by insisting on strict process
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      compliance. We simply have not yet found another way.
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              However, there is a perverse consequence of this
     that we need to be aware of. In the first stakeholder
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      meeting I mentioned my experience at San Onofre of
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     developing very detailed, and often complex procedural
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      guidance, which has the benefit of reducing the likelihood
     that an error will propagate to the point that it has safety
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      consequences.
               In essence, we have added built-in conservatism to
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     our process, but this greatly increases the likelihood that
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      strict compliance with these detailed procedures, which
     often go beyond the minimum regulatory requirements, will
     become a subject of enforcement debate and controversy, so
      that a perverse incentive is created to simplify and remove
      detail in order to reduce this problem.
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               We see analogies to this in some of the discussion
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     today, which I think is misquided, about removing
      unnecessary detail from the FSAR so as to reduce
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maintenance rule. There have been two enforcement

14 non-compliance exposure. The benefits to safety of this 15 exercise are questionable at best, and the research is 16 required to be much better invested in achieving 17 risk-informed goals. Worse yet, the anticipated future inspection and enforcement of the perfected FSAR threatens 18 19 to divert even more resources. 20 I was very pleased to see that these issues and more have been identified by the staff in its presentation 21 22 to the ACRS on October 29th. Although I have only seen a 23 summary of the presentation, I would commend it to the 2.4 Commission and I look forward to the response by the ACRS. 25 An issue prominently identified by the staff is 1 the need for an early emphasis on scope issues, using the maintenance rule as, what the staff termed, "a test bed." There is no more lower hanging fruit than this, and perhaps 3 4 I can later give examples of why this is. The scope of the maintenance rule implementation has been a longstanding problem, as suggested by my earlier 6 comments, but the problem is made much greater now by the pending change to require that removal of equipment from 9 service not place a plant in a risk-significant condition. 1.0 Not only do we need to clarify what we meant by risk-significant in this context, but the task of risk 11 12 evaluation for the current broad scope of the rule is simply 13 impractical. 14 I would like to conclude with a few brief additional remarks about risk-significance. Our concern 15 16 should be integrated risk, which is a product of the level 17 of risk and the time that that level of risk exists. If the 18 consequence of a requirement do not exceed a specified level 19 of risk, because that is viewed as too risk-significant, if 20 that consequence is to extend the time at which the plant is 21 held at some lower, but nevertheless elevated risk state. 22 then the result may be same or worse, from a risk 23 standpoint. Therefore, avoidance of a risk-significant configuration, per se, is not meaningful from a safety 24 25 standpoint. 1 In my book, for example, mid-loop operation is 2 risk-significant and we take great care to minimize the time we are in that configuration. But elimination of mid-loop 3 4 operation, while theoretically possible, would result in 5 more risk in our view. Another example of how risk insights can change 6 7 perceptions is the following. For the first quarter of a century that I was involved in nuclear plant operations, I accepted the conventional wisdom that the most likely state 10 -- that the most risk state, excuse me, was full power 11 operation. Therefore, I accepted the premise that we should minimize the time that emergency diesel generators were out 12 13 of service during power operation. 14 Chairman Jackson, you mentioned something about this, I think, in your opening remarks. The NRC has now 15 16 agreed with the observation that, with respect to loss of 17 off-site power, which is the time when we rely on emergency 18 diesel generators, shutdown operation has the highest risk. 19 So, again, referring perhaps to my colleagues' earlier 20 comments, being risk-informed can enhance safety. The reason why it is important to have the 21 22 emergency diesel generators available during shutdown 23 operation is that it is easier to remove decay heat following a loss of off-site power when the plant has been 24

circulation and turbine-driven aux feed give large safety margins, whereas loss of forced circulation and makeup, when cooled down, involve smaller margins to fuel damage.

As a result, now, we have a longer allowed outage time, as the Chairman mentioned, at power, and work we once did in an outage, because that is the only time we had available to do it, will now be done more safely at power as a result of risk-informing that allowed outage time.

There are many insights of this kind that can be identified and used to increase plant safety if we move ahead with the initiative to a risk-informed regulatory environment, which I believe the action plan is intended to do. Thank you very much.

CHAIRMAN JACKSON: Thank you, Mr. Ray. I actually have some questions for you, but I am going to preserve them until everyone has had a chance to speak.

Dr. Travers.

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MR. TRAVERS: Thank you, Chairman Jackson. As you have indicated in your remarks, following last summer's first stakeholder meeting, the Senate authorization hearing, and in response to your tasking memorandum, the NRC staff developed a plan to address a specific set of high priority issues.

Our plan focused on the need to accelerate and 24 25 expand any ongoing staff activities. Although we fully

1 expect to address changing NRC programs and processes more 2 broadly, the specific issues identified in the plan are 3 viewed as the appropriate focus of our near-term efforts.

On October 30th, I forwarded the second update of our plan, and I am pleased to note that, overall, staff continues to meet the plan's scheduled milestones. Since the initial response to the tasking memorandum, there has been considerable progress towards completion of milestones and initiatives, as evidenced by the issuance of improved standard technical specifications from McGuire and Catawba, completion of several plant-specific risk-informed licensing actions, issuance of the final design approval for the

12 13 AP-600 and publication of the proposed 10 CFR 50.59 rule change for public comment. 14 15 Additionally, on November 2nd, the staff submitted

Commission. This proposal, which specifically addresses the disposition of certain non-risk-significant violations, characterized as Severity Level IV, was the subject of several public meetings which were very constructive in our view. The public meetings helped focus in on the detailed issues relevant to the current enforcement policy's treatment of these types of violations and helped shape our proposal for changing the policy.

a proposed revision to the NRC enforcement policy to the

25 We view these open exchanges as essential elements

in our efforts to modify important NRC programs and processes. In fact, as we move forward in all areas of the 3 tasking memo response, we are continuing to emphasize $% \left(1\right) =\left(1\right) \left(1\right)$ 4 frequent interactions with our stakeholders. Workshops and public meetings such as those carried out on the development 5 6 of a NRC performance assessment program, and on identifying options for making 10 CFR Part 50 risk-informed, have been 8 widely viewed as excellent forums for making progress in 9

cooperation with a broad range of stakeholder views.

In addition to assuring good communications with

11 our external stakeholders, we are also seeking to effectively communicate and manage change with our internal 12 13 stakeholders. Senior management team's sense is that there 14 are many NRC staff who support our current initiatives. In fact, we are getting good input on additional areas for 15 16 change, but we are not overconfident about this. 17 We believe that near-constant communication with the NRC staff will be vitally important as we move forward. 18 19 To ensure this, we have developed and are implementing an 20 internal communications plan which has the benefit of 21 outside expertise and industry experience. The plan 22 includes meetings and training opportunities which focus in 23 on why and how we are changing, with a specific emphasis on the tasking memo initiatives. 24 25 Our goal, in addition to seeking staff support for 1 the change initiatives, is to provide a forum for the staff to play a role in shaping the direction of change at NRC. 2 We recognize that organizational change does not take place 3 overnight, and we recognize the importance of fully 4 involving the NRC staff as we change. We expect to continue our internal communications efforts over the long term. 6 7 In conclusion, while much remains to be accomplished, I think we have made substantial progress on important issues. I think the substantial efforts of many 9 10 of the NRC staff who have contributed thus far are 11 noteworthy, and I am grateful to the many stakeholders, 12 including those gathered here today, for their efforts to 13 date. Thank you, Chairman. 14 CHAIRMAN JACKSON: Thank you, Dr. Travers. 15 Mr. McNeill. 16 MR. McNEILL: Thank you very much, Madame 17 Chairman. It is privilege to come back and participate in a stakeholder meeting again. My topic is really going to be 18 19 around the first element of the agenda today, the 20 risk-informed, performance-based regulation. I provide these comments in what I think is a constructive manner, in 21 that I prefer personally to look forward. This is going to 22 23 be an evolving issue, and to take the lessons from the past 24 and apply them to the future, as opposed to necessarily 25 complaining too much about the past. 1 As you know, in May of this year, the industry 2 unveiled its vision for the future of nuclear power when NEI released its report entitled, "Nuclear Energy 2000 and 3 4 Beyond, a Strategic Direction for the 21st Century." A major element of than plan is the presence of an effective safety-focused regulatory framework which features 6 risk-informed, performance-based regulation. I think there is clear synergy between the vision that the industry has and the actions that the NRC is taking under consideration 10 in its stakeholder meeting. 11 The maintenance rule, which was issued by the Commission in 1991, really was sort of a precursor to 12 13 risk-informed, performance-based regulation, and we 14 currently have a proposed revision to that rule out. When 15 the original rule was issued it was highly prescriptive in 16 many respects, putting the Commission in a programmatic 17 rather than necessarily an oversight role with regard to maintenance. Some in the industry at the time challenged 18 19 the rule as an inappropriate backfit, but the Commission 20 emphasized, and I think successfully, that the rule would

evolve over time and reflect a more risk-informed,

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performance-based nature, as we began to get experience.
               And as a result, the industry, through then NUMARC
23
      at the time, NEI's predecessor, we took a different
24
25
     challenge on, and that was to make the implementation a
1
     model for a new regulatory approach based upon
     risk-informed, performance-based regulation principles. As
 3
      Mr. Ray has noted, I chaired the NUMARC Maintenance Rule
      Working Group that coordinated the development of industry
 5
      quidance to implement the rule and that has served as the
 6
      focal point for industry interaction with the NRC over the
      years of implementation.
8
               The goal of that effort was to achieve effective
9
      and efficient implementation by focusing on risk-significant
10
      structures, systems and components using results in a
     results-oriented approach. We devoted a significant amount
11
12
     of time, both on the part of the NRC and the industry, over
13
     that intervening period of time for implementation. While
      we have not vet, in our opinion, realized the full potential
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15
      of this new regulatory approach, we believe that, from the
      industry perspective, the maintenance rule provides a solid
16
      foundation upon which we can build a new regulatory
17
18
      framework.
19
               The current proposed revisions to the maintenance
     rule provide the Commission with an opportunity to
20
21
      demonstrate its commitment to this new regulatory
22
     risk-informed, performance-based framework. We believe that
23
     it is time for the Commission to actively incorporate the
24
     lessons learned since the rule was promulgated, to assure
25
     that the enforcement of the rule recognizes its original
      intent and that it reflects the risk-informed,
2
     performance-based process.
 3
               Now, I want to give you just a few examples here
      so that we can take the lessons of the past and apply them
 4
     to the future. The current rule suffers a little bit from
5
     the following deficiencies. First, in large, up-to-date, it
 6
     has remained largely compliance-based. The initial part of
     it is a deterministic determination of scope, and, clearly,
8
9
      about two-thirds of the structures, systems and components
10
      within the scope are not risk-significant, but by applying
     other attributes of the rule, such as standby SSCs, we begin
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12
      to invert the main premise, which was to focus clearly on
13
      risk-significant SSC.
14
               And by example, let me give you one example from
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     our Limerick generating station, where, in fact, the fuel
16
     pool cooling system, which has inconsequential safety
     significance in the overall operation of the plant, is, in
17
18
      fact, because it is listed in the EOPs as a system that is
19
     referred to, comes under additional scrutiny, which we think
     is incorrect with respect to the safety significance of the
2.0
21
      system, in that we are required to monitor that on a train
22
     basis, as opposed to an overall system basis, because some
      trains are shut down at certain times and are
2.3
24
      non-operational.
25
               While having taken that lesson from the inspection
      and applied it, we had to go back at look at 23 other
1
2
     systems, to go back and look at them on a train basis, as
3
      opposed to a system basis, with an expenditure of a large
      amount of engineering and managerial time in doing that. It
     might be worth noting that we, in fact, had been doing it
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      that way at Peach Bottom, and the Peach Bottom plant was a
      demonstration inspection as a part of the original test of
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the implementation, and we were doing it at the train level.
      We had gone to an NRC workshop in 1996 and, in fact, we had
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      reversed ourselves and were going back to monitor on a
11
      system basis, until we got the Limerick inspection, so it is
12
      unclear to us as to what the appropriate quidance is.
13
               A second suggestion here is that there is a
14
      failure to utilize performance-based approaches to
     regulation. Much of the inspection and enforcement activity
15
16
      to date has been focused on programmatic issues. We need to
17
      make sure that the performance basis element of the
18
      regulatory oversight becomes much stronger as we move
19
      forward in implementing this.
20
               And, finally, the rule suffers from ambiguity and
      vagueness, the definitions of availability and
21
      unavailability are obscure, and we need to focus on those
22
23
      much more clearly, as an example, in definitions as we begin
24
     to develop and implement new rules and risk-based rule.
25
               Harold and I, having gone through that, understand
      that right from the start. We probably spent two-thirds of
1
      our interaction time with the NRC back in the '93 - '4 time
      frame, just on understanding definition.
3
4
               On a positive side, I want to emphasize that the
 5
      maintenance rule can serve as a model for future
      risk-informed, performance-based regulatory approaches. It
 6
      provides a solid foundation for moving forward. The
      Commission should incorporate the lessons learned from the
     implementation of the rule, as you move forward to a
9
10
      risk-based regulatory framework, and I would encourage the
11
      Commission to seriously consider the industry comments on
12
     the maintenance rule as an opportunity to fulfill the
13
     promise and the intent of the original effort.
14
               I believe that the prospect for the future of
     additional risk-informed, performance-based regulation is
15
      very strong if you do that, but begins to diminish, in fact,
16
17
      we tend not to move forward with the real fundamentals of
     risk-based regulation. Thank you.
18
               CHAIRMAN JACKSON: Thank you very much.
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               I am going to go to Dr. Rhodes, and then I am
21
      going to circle back through my colleagues' comments. Dr.
22
     Rhodes
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               DR. RHODES: Thank you, Chairman Jackson. First,
24
     let me say that I appreciate the opportunity to represent
25
     the Institute of Nuclear Power Operations at this meeting.
1
      We continue to be encouraged by the openness being displayed
      by the NRC in communicating with stakeholders. This
2
      process, an open exchange of ideas and information, can only
 3
     help in everyone's effort to ensure the safe and reliable
      operation of our nation's nuclear power plants.
               Let me also add that we are very pleased to see
 6
7
      the Commission at full strength again, as you mentioned,
      Chairman Jackson. This will help the Commission more
      efficiently carry out its work, particularly in the
10
      challenging and changing industry environment.
11
               As you are probably aware, we are INPO have
12
     underway a series of initiatives geared towards improving
13
     how we meet our mission of promoting the highest levels of
14
     safety and reliability in the operation of nuclear electric
      generating plants. Therefore, we can certainly understand
15
16
      the challenge the NRC faces as you strive to effectively
17
      meet your regulatory responsibilities, while at the same
18
      time making needed changes in the way you carry out those
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responsibilities.
               At INPO, we have seen many utilities challenged
20
21
      with managing change. Some have had success, others have
22
      struggled. Based on our observations and experience, and
      certainly on my previous experience at Virginia Power, it is
23
24
      clear that change requires clarity of purpose, constant
25
     communication, training and, most of all, persistence and
1
      hard work. Let me address each of those elements briefly.
 2
               First, clarity of purpose. A clearly defined,
3
      simple goal is necessary. With clarity and simplicity,
 4
      change leaders throughout the organization can help ensure
5
     that strong support exists at all levels.
 6
               Second, constant communication is critical for
      success. Communication must be two-way, involving both
8
      sending information and receiving feedback. External
9
      communications with stakeholders, through processes such as
10
      today's meeting, are to be applauded and need to continue.
11
      Being flexible enough to incorporate relevant feedback from
12
      stakeholders throughout the change process, as I believe you
13
      recognize, will be important to your success.
               Internal communications are just as important, as
14
15
     Dr. Travers just talked about. First, the intentions of the
16
     Commissioners and the senior staff should be repeatedly
     communicated throughout all levels of your organization.
17
      But then, just as importantly, employees must be engaged in
18
19
     dialogue to assure that the messages are being received and
20
      understood
21
               Third, preparing and training your employees for
22
      change, and helping them succeed, is another fundamental
23
     ingredient. Our experience shows that organizations often
24
      underestimate the effort required to engage and train the
25
      work force on significant changes. We encourage you to look
      hard at the ability of your work force to digest and
1
      internalize the changes being made. Also, as your
2
3
      organization changes, particularly in light of new
      assignments, additional skills training may be needed.
      Further, it is important that the NRC's award and
5
6
      recognition system support successful implementation of the
      change process.
               Finally, persistence and hard work. As you have
8
9
      said, what you are undertaking includes a change in culture.
10
      Cultural changes take time, tremendous energy and, most of
11
      all, significantly more persistence and hard work than often
12
      expected. However, we are encouraged by what we have seen
13
     happening thus far.
              But, Chairman Jackson, to use one of your quotes,
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15
      one I like very much actually, "Performance is what
16
     performance does." We have seen many organizations with
     great intentions have their change programs fall short
17
18
     because of poor implementation. Given the far-reaching
19
      effects of the changes you are initiating, persistent and
      consistent execution of your change process is critical to
2.0
21
      success. This, as I said, and as you well know, will taken
22
     an immense amount of hard work.
2.3
               In the meantime, we encourage you to continue
24
      improving your responsiveness to industry needs, such as
25
     timely license amendments, transfers and renewals, and
      reducing administrative burdens such as minor Level IV
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reducing administrative burdens such as minor Level IV violations. Additionally, while maintaining appropriate data propriety, increased information sharing may also be appropriate to reduce duplication and administrative

objective and responsive nuclear regulator. We are encouraged by what you are attempting to do, that is, 9 10 becoming a more risk-informed, performance-based regulator 11 with your inspection, enforcement and assessment processes 12 focusing on items directly related to your mission, the 13 protection of the public health and safety. We at INPO will 14 continue to work in cooperation with you to help ensure the 15 safe operation of our nation's nuclear power plants. Thank 16 17 CHAIRMAN JACKSON: Thank you very much, Dr. 18 Rhodes. 19 MR. NYE: Good morning, Chairman Jackson. Thank 20 21 you for this opportunity to be part of this meeting, to continue what I believe is a very constructive stakeholder 22 23 dialogue. I join my colleagues present today in expressing our significant pleasure at the Commission once again being 24 at full strength. Commissioner Dicus, welcome back, glad to 25 1 have you. Commissioner Merrifield, we congratulate you and wish you the very best in your very challenging 2 3 responsibilities. Clearly, Chairman Jackson, Commissioners Diaz and McGaffigan have embarked upon a bold course of action and the involvement of the full panel will simply enhance the 6 7 process. I presume that most of those present here today 9 would readily acknowledge that the commercial nuclear 10 industry is in the midst of a period of significant change, 11 change which has resulted from the globalization of the economy, growing competition in a previously comprehensively 12 13 regulated industry, and the increasing importance of the 14 environmental benefits of nuclear power. Perhaps it is apparent, but I believe we need to observe Lincoln's 15 admonition not to confuse change with progress. What I hope 16 17 we all seek is progress, progress towards a strong, effective and credible regulatory authority that will assure 18 19 safety in a fashion that will permit efficiency, innovation 20 and performance by the industry. 21 Perhaps it is also obvious that to achieve what I 22 think has been aptly termed "responsible responsiveness," 23 all constituencies must be involved. This is not a matter 2.4 for the Commission alone and the industry must adapt and accept fully its responsibilities. Likewise, the public, 25 1 public interest organizations, the Congress, the manufacturing and consulting communities, must all play a role as well. 3 4 The letter inviting participation posed several questions for our consideration, and I think through the presentations of industry representatives, each question 6 will be addressed. I would like to offer a couple of summary comments, however. At the outset, I want to commend 9 Chairman Jackson, the Commissioners and the senior staff for 1.0 their clear commitment to the task of regulatory reform. 11 All involved should be impressed with the zeal with which you have undertaken the task and with your willingness to 12 13 continue this interaction with stakeholders on your plans 14 and progress. 15 My colleagues and I note a new energy level at the

In conclusion, we believe that the industry and,

indeed, the public, wants and needs a more predictable,

burdens.

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NRC and an openness and enthusiasm for the process of reform
      that is, in my experience, unique in government. The plan
17
      that you have devised is thoughtful, comprehensive and
18
19
      impressive. I believe that it has captured the highest
20
      priority issues, namely, the license renewal and transfer
      process, which will permit more timely business decisions
21
22
     during the restructuring process, and the installation of an
23
      objective, safety-focused performance assessment process.
24
               With regard to this last point, I am especially
25
      appreciative of your bold step to develop a more appropriate
      mechanism in lieu of the SALP process. This is clearly
1
      indicative of a firm commitment to move quickly to a new
2
3
      objective, safety-focused assessment for all licensees. We
      look forward to working with you over the next several years
     to resolve many other important issues along the way, and we
5
 6
     commit the industry to acting in a fully supportive and
     reciprocal fashion.
              One of the key questions implicit in this matter
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9
      deserves a firm response at the outset. You asked if we,
     the industry, are prepared to accept the cost of a
10
     potentially much less-forgiving regulatory process as a
11
12
      result of reliance on more objective performance measures.
13
     Assuming that the performance measures are objective,
     risk-informed and safety-focused, the answer is
14
      unequivocally yes. We will stand accountable for our
15
16
     performance and safe operation. Again, thank you for the
     opportunity to participate.
17
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               CHAIRMAN JACKSON: Thank you very much, Mr. Nye.
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               Mr. Lochbaum.
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               MR. LOCHBAUM: Good morning. During the July 17th
21
      stakeholder meeting I stated that the NRC does not conform
22
      to the same high standards that it requires of its
2.3
      licensees. The staff's October 30th, 1998 response to the
     tasking memorandum is further evidence to me that my
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25
     position is correct.
               During my 14 years as a consultant, I had several
1
2
      assignments at both top-performing nuclear plants and also
3
      problem plants. I observed that one of the few consistent
     indicators of management effectiveness is in the response to
      an announcement of an upcoming NRC inspection. At the good
5
      plants, management develops a presentation to do some
      bragging. They have all kinds of charts and tables and
      examples to explain to the NRC the positive results they are
8
9
      obtaining from strong, effective programs. At the bad
10
     plants, management panics. They rush to develop action
     plans to address all of the problems they have been
11
12
      ignoring. They hope to convince the NRC that they are aware
13
      of the problems and have blueprint in place for fixing them.
               The NRC's response to the Senate's marching
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15
     orders, or, more specifically, its preparations for the next
     oversight hearing reminds me more of the reaction of a bad
16
      plant than a good plant. The true purpose seems to be to
17
      convince the Senate to leave the NRC alone, just as the bad
18
19
      plant's management only wants to trick your inspectors into
2.0
      giving them more time.
               The NRC's plan is comprehensive and will probably
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22
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satisfy the Senate, but the NRC does not have mechanisms to 2.3 ensure that the processes described in the plan are consistently implemented, nor does the NRC have mechanisms 24 to evaluate revised processes to gauge whether they have 25

in the world is unlikely to produce a successful outcome, and as the written comments that accompany these oral 4 remarks suggest, UCS does not feel that the NRC's current plan is the best plan in the world. The NRC demands that reactor licensees have 6 7 aggressive self-assessment programs complemented by effective corrective action programs. The staff's October 30th, 1998 response to the tasking memorandum covers the 10 majority of the key elements of the NRC's reactor oversight 11 program. Its large scope and the high level of effort 12 required to address its many items suggest either that the 13 NRC was not aware of all these problems until the Senate, 14 the GAO, and other external entities called attention to them, or that the NRC knew about these problems but was 15 unable to correct them in a timely manner. 16 The staff's response to the tasking memorandum is 17 essentially identical to the restart plans developed by 18 reactor licensees at problem plants. This 74 page document, 19 20 when I was preparing these remarks last week, was on my desk with the restart plans for D.C. Cook, Salem and Millstone, 21 22 and the reason I knew that, because it took me four shots to 23 find this plan on that desk. 24 The glaring exception in this plan, compared to the restart plans at problem plants, is that the reactor 25 1 licensees are required to prove to the NRC that they have fixed their self-assessment and corrective action programs. The staff is not proposing to do so. We think that the 3 4 NRC's initiatives will not be successful until they are complemented by substantial improvements to the staff's self-assessment and corrective action programs. Thank you. 6 CHAIRMAN JACKSON: Thank you very much. 8 Ms. Lipoti. DR. LIPOTI: Thank you. I am honored to be part 9 10 of this circle, and perhaps a little awed as well. 11 CHAIRMAN JACKSON: Don't be. DR. LIPOTI: From a state perspective, we have an 12 13 emphasis on emergency planning, and so our emphasis is on responding to things that might go wrong, and we would 14 prefer prevention, and that is why we look at licensee 15 16 processes, as well as NRC regulatory control. And we 17 understand limited resources, because at the state we have 18 limited resources as well, and we understand the use of 19 probabilistic risk-assessment and individual plan 20 examination as being essential for prioritization. 21 What I would like to do is to take to you the regulator's perspective, because we are a regulator, too. 22 23 We regulate X-ray machines and naturally-occurring 2.4 radioactive materials, and radon businesses, and radio frequency sources, and we have limited resources, and how is 25 1 it that we cope? Well, we prioritize, but if we strictly 2 use probabilistic risk-assessment for prioritizing X-ray inspections, we would look at fluoroscopy machines because 3 they have the highest exposure potential. And we would look only at hospitals, because they have the high population exposure. But, in reality, the hospitals have the best 6 7 self-assessment programs. They have good quality assurance programs, and they identify and correct the problems before we do the inspection. 9 10 In reality, it is the small medical and 11 chiropractic offices that have the most violations. And so 12 we try to inspect where the inspection is going to do the

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I put a very busy slide in my presentation about
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15
      the violation rates, and I have looked at it over the years,
      and this is just one example of using performance
16
     indicators. In '94 we began to lose staff because of
17
18
      cut-back of state programs, and so we watched the length of
19
     time between inspections increase and we watched the
20
     violation rate at medical offices and chiropractic offices
21
      increase dramatically. And so I took a bold step and I said
22
      we are not going to go to those hospitals every year, even
23
      though that is the highest probability of high exposure, and
24
      we are going to go to the smaller offices because they
25
     obviously need our inspection to prompt them to make
1
2
               We did a form of your Generic Letter, we sent out
3
      a letter to the groups that we were going to be inspecting
      and we gave them a list of top 10 non-compliances and said
      if you fix these before we get there, you probably won't
5
      have any non-compliances. We sent that out in January of
      '95, and you see that the non-compliances increase in '96.
               We did change our priorities. We were able to
8
9
      bring the chiropractic and medical offices down to lower
10
     non-compliances. And so I guess that gets to the idea of
      establishing a metric so you know what your baseline level
11
12
      of inspections needs to be.
13
               In New Jersey, for the department, we have guiding
     principles, and they are very few of them: continuous
14
15
      quality improvements; effective partnerships; innovative
     management strategies; enhanced scientific assessments of
16
17
     data by using indicators to reflect the conditions, the
18
      trends and the results. You want to look at what is out
      there, you want to look at how you can influence those
19
2.0
      trends, and how you can get the results. And you look for
21
     linkages among the causes, conditions and the effectiveness
     of the management strategies. So the selection of metrics
22
2.3
      is extremely important and I am glad that you are
24
      concentrating on that.
               When I looked at your plan, and I looked at the
25
1
     NRC organization and structure, I thought that it missed one
     of the current trends in management, and the trend is toward
2
      postmodern management, which is more of a deconstructionism,
      deconstructing the bureaucracy and an emphasis on
5
     creativity, a reliance on partnerships, and I think that the
 6
      stakeholders is a way of getting to partnerships, but I am a
     little bit concerned that your partnerships are mainly with
     your licensees and perhaps at a lesser extent with states
8
     and other interested parties.
9
10
               I saw indicators that reflect conditions and
11
     trends and results, but I didn't see how you propose to
12
     improve the public understanding of the issues. I think
13
      that is really important.
               The next slide is -- What does your new culture
14
15
      look like? -- and it is a blank slide, because I couldn't
      tell what your new culture would look like.
16
17
               I know Dr. Travers mentioned internal stakeholders
      meetings and forums for the staff to get involved, and I
18
19
     think that is very important, because I don't -- if I didn't
2.0
      see what your culture is supposed to look like, I am not
      sure that your staff did. And I notice that in a speech
21
22
     that you gave to your senior managers, you said, "If the
23
      staff feels that they are charged with guessing at
      management goals, strategies or acceptance criteria in a
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13

most good.

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given circumstance, we will not make timely progress." I
1
      think that is really important.
               Decommissioning, I thought was the largest gap in
      your plan, and maybe that is because you haven't really
3
 4
      looked at this as a continuum in nuclear power, from
     operations to shutdown, to decommissioning, and maybe you
 6
      need to create that big circle there.
               I think you need a critical shift in your thinking
8
     for the cleanup issue, and you need stakeholders, perhaps
9
      just on this issue, because they might be different
10
      stakeholders, states, EPA and NRC.
11
              I am a little concerned that on the shutdown
     emergency preparedness rule there seems to be meetings
12
      between the NRC staff and NEI, but states are the biggest
13
      stakeholder in off-site emergency preparedness and we should
14
15
     be part of those discussions.
               I thought MARSSIM was an excellent example of a
16
17
     good product that was based on collaboration, and I think we
     need more collaboration on this particular issue.
18
19
               You asked a couple of questions. You asked, is
20
     your plan sufficient? And I thought the accountability was
21
      good because you gave dates and you assigned things to
      specific people, and it does seem responsive to the
22
23
      Congressional requests, but I am just concerned that it
2.4
      might be at the expense of a thoughtful process, where you
25
      get too busy with the checklist to think of the organization
1
      as a whole. I also wondered it was outside the normal
 2
      management process, because, really, this is part of good
      management. I thought you might have missed some issues
3
      like emergency planning and radiation monitoring systems.
 4
5
               I noticed on your inspection program that there
     are some plant systems that aren't real high on the risk
6
7
      ranking, like emergency preparedness, like radiation
     monitoring systems, but they are sure important to states
     because of our off-site responsibilities.
9
               You asked about the successful completion of the
10
11
     plan, and I think there should be no completion, it should
12
     be part of the continual improvement process and it should
13
      be a living document.
14
               When I look at NRC in the long-term, I think the
15
     plan responded to the Congressional hearings, but you missed
16
      some of the big issues. A lot of the pages of this plan
17
      were devoted to approving six different types of
18
      multi-purpose canisters, and that is very important to do,
      but it doesn't solve the problem of spent fuel being stored
19
     at 100 different places around the country and not having a
20
      permanent waste disposal facility. So it might be time to
21
22
      revisit those direction-setting issue papers and consider
      some reinvolvement in some of the big picture issues.
23
2.4
               I think that one thing you didn't anticipate was
25
      the quantity of plants that are being shut down and
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1 decommissioned early, and it might be time to revisit your 2 trending data and to place more emphasis on the transition 3 to decommissioning.

4 I have lots of other slides, and I will just bring up those points during the regular discussion. Thank you verv much. 6

CHAIRMAN JACKSON: Thank you.

8 Dr. Remick.

DR. REMICK: Thank you. Good morning,

Commissioners, NRC staff and fellow stakeholders. I appreciate the invitation to participate in this, the second 11 12 round table stakeholders discussion meeting on the nuclear 13 regulatory process. As before, I will strive to be direct and to the point. 14 15 Like others, I am pleased to acknowledge the number of changes that are underway and decisions that are 16 being made in the agency. I am both pleased and impressed 17 18 by the breadth of the activities that are underway. 19 The Commission appears to be more engaged in the 20 issues that confront the agency and its licensees. Many important issues are being managed by the senior managers 21 22 with increased guidance from the Commission and with 2.3 apparent renewed energy and enthusiasm. For example, the 24 staff's response to the tasking memorandum and stakeholders' 25 concerns, which I consider to be the agency's corrective 1 action plan, is serving to focus attention and, hopefully, 2 developing consensus within the agency. There appears to be an improved alignment of the 4 Commission and the staff on issues. As a result, staff managers appear to be more involved in the activities of 5 their staff. An example is the decision to issue relief for 6 some plant designs on the time to initiate the monitoring of hydrogen concentrations following ECCS initiation. This was 8 one of the pilot programs to which I referred in July as 10 languishing for lack of a timely decision and unending requests for additional information. It is now time to make 11 12 decisions on other risk-informed pilot program submittals 13 which are also before the staff and propose either 14 risk-neutral or risk-positive changes. 15 As is the case in any major change in direction or paradigm shift in large organizations, there is the question 16 17 of how those in the depths of the organization have accepted the change. Thus, leadership and commitment for change must 18 be demonstrated down the line, and continuous and consistent 19 2.0 communication must be sustained, because we all know that Congressional attention and interest, as well as 21 22 Commissioners, come and go. 23 It is important that the communication be consistent and clear. To that point, I hope that the recent 24 interim enforcement guidance is more scrutable to those in 25 the field who must implement the guidance, than I can claim 2 as an interested and somewhat knowledgeable reader. To me. 3 the guidance, issued, I am sure, with the very best of intent, is replete on -- on the one hand, do this, but on the other hand, do that. 5 6 There are several aspects of your corrective action plan which appear to be missing. For example, what is your vision in constructing and approving your corrective 8 action plan? That is, what will the NRC look like when the 9 10 plan is completed? Without such a vision, clearly defined and communicated to the staff, how will you know when you 11 have achieved your vision? Further, consistent with how the 12 13 agency asks its licensees about their corrective action 14 plans, what self-assessments are planned in the course of 15 conducting the corrective actions, or after the actions are 16 completed, so you can determine whether the actions have 17 been effective? I am pleased to see veteran Commissioner Dicus 18 19 back on the job and to see Commissioner Merrifield, my 20 neighbor here, completing the complement of Commissioners. 21 In the past I have proclaimed the benefits of a

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multi-disciplined Commission structure for handling complex,
23
      technical policy issues important to public safety.
24
               Incidentally, I have also touted the benefits of a
      multi-discipline, "science court" process for resolving
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1
      complex technical issues in contention, such as you have
 2
      with the Atomic Safety and Licensing Board, admittedly,
      assuming that it is functioning efficiently.
3
               However, now that all the seats are filled, if the
5
      Commission is to be effective, it cannot be a bifurcated
 6
     body. It must be a collegial body which works together for
      a common purpose, that is, providing adequate protection to
      the public, the environment, and national security in an
8
      efficient and cost-effective manner. To be successful in
      carrying out your important your important responsibilities,
10
      you must communicate with each other as equals. Further,
11
     you must communicate clearly and frequently with the staff,
12
      which, in my view, is one of the most professional staffs of
13
      any agency in this town. And when I say this town, I mean
14
     the one 10 to 12 miles from here.
15
16
               In seeking ways to improve the performance of this
17
      agency, the Commission should search for methods to improve
18
      the efficiency and effectiveness of own modus operandi. For
      example, I, like many others, believe that the Commission's
19
20
      practice in implementing the government in the Sunshine Act
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     inhibits a healthy, open, free-wheeling exchange of
22
      perspectives on issues pending before the Commission.
23
               Specifically, the current practice wherein no more
2.4
      than two Commissioners may meet informally to discuss their
     perspectives on an issue curtails meaningful collegial
1
     dialogue and precludes the synergistic opportunity which I
      believe was envisioned when the concept of a
      multi-disciplined, five-person Commission was adopted. The
3
      current practice of having to have four separate discussions
      to seek other Commissioners' perspectives is inefficient,
      ineffective and nonsensical, in my view.
 6
               Decisions on issues pending before the Commission
      cannot and should not be made in such discussion meetings,
8
9
      but a healthy airing of individual perspectives would be
     beneficial to eventually deciding policy issues. I believe
10
11
     the Commission has the authority to revise its current
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     practice without violating the commendable intent of the
13
      government in the Sunshine Act. In fact, I believe that
      Section 101(c) of Part 9 of your own regulations permits you
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15
      to do that.
               Returning to a matter that I discussed at our last
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17
     meeting, I believe there is nothing in the Atomic Energy Act
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      which defines Confirmatory Action Letters, the so-called
19
      CALs, or Confirmatory Orders, and that is in contrast to
20
     orders in general, or is there anything in the regulation
21
      which defines such instruments and their intended use.
22
               Now, I don't question the Commission's authority
23
     to establish such instruments because the Atomic Energy Act
24
      gives the Commission broad powers, but I do question their
25
      bases in the regulations and, thus, their fairness in use.
1
     If there is a legitimate regulatory need for them, the
     responsible action would be to revise the regulations
      through rulemaking in accordance with the Administrative
      Procedures Act, and consistent with the Commission's
 4
      Principles of Good Regulation. If promulgated, their use
      should be closely prescribed, controlled and monitored to
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prevent their misuse as a means of bypassing the
      Commission's regulations, including its backfit rule.
8
               Now, I understand the staff's liking for
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10
     Confirmatory Action Letters and Confirmatory Orders,
      inasmuch as they preclude the opportunity for a licensee to
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12
      exercise its right to request a hearing on the matter,
13
      wherein the regulatory basis of the action could be
14
      challenged and Commission review should, and presumably
15
      would be triggered.
16
               I am pleased to note that it appears that staff
17
     composed Confirmatory Action Letters have come under closer
      scrutiny since the last stakeholders meeting, to see that
18
19
      some impending CALs have not been issued. However, I am
2.0
      displeased to report that some in the regions have already
21
      found a way around the closer scrutiny. For example, the
     staff is able to arm twist a licensee, under the threat of
2.2
23
     the issuance of a CAL or a Confirmatory Order, to make
24
      formal, detailed, prescriptive commitments that the staff
25
     wants, which then become part of the licensee's licensing
      basis. Thus, the staff gets around the backfit rule and
      other regulatory requirements without issuance of a CAL.
2
               Now, this is a flagrant violation of the backfit
 3
     rule to me, and some might refer to it as regulatory
      extortion, admittedly an extreme and contentious term,
5
      however, a term which does have a ring to it as a means of
     drawing attention to regulatory methods used to force
     licensees to commit to actions with otherwise they are not
8
      obligated to do by the regulations. It has caused me to
9
10
     define a new CAL acronym as "Commitments by Arm-twisting and
     Leverage." I am surprised that the Office of the General
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12
      Counsel has not raised a red flag about the practice, if it
13
     has not.
14
               Finally, I think you, as Commissioners, have some
      of the best executive service positions in this town. As
15
     Commissioners appointed by the President, you neither serve
16
17
      at the pleasure of the President, nor must follow the
      associated dictates from the White House. You are free to
18
     make important public policy decisions based on the dictates
19
20
     of your conscience as to what you consider to be right in
21
      the best interest of the public, and you are largely free
      from partisan politics, although correctly subject to
22
23
      Congressional oversight.
24
               You are free to fulfill your responsibilities
      using your best judgment. In doing so, you must be willing
25
1
      and be prepared to shoulder criticism from the media and
      others, willing to face and resolve in a fair manner
2
      differing professional opinions from the staff as well as
3
 4
      questions from Congress, and willing to stand up to the
      challenge from those opposed to maintaining nuclear energy
5
      as an energy option for this country, as has been decided by
 6
      Congress. As has been said, "if you are right, you will
     prevail." And you will be right more often if you improve
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      your ability to come together as a collegial Commission and
10
      thoroughly discuss your individual perspectives on issues
11
      before deciding those issues.
               In closing, again, I say that I am pleased and
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13
      impressed with the changes that are underway, for which you
      are to be congratulated. Properly managing the changes,
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      assessing their effectiveness and sustaining your efforts to
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      their conclusion will be essential and critical elements to
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17
     your success. Thank you.
               CHAIRMAN JACKSON: Thank you.
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Mr. Colvin.
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               MR. COLVIN: Chairman, Commissioners, ladies and
      gentlemen, thank you. It really is a pleasure to be here at
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22
      this second stakeholders meeting and appear before, in
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      essence, a full Commission.
24
               I think that as we move forward, I see that we
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      really have the ingredients for success and making some
1
      important changes in the regulatory processes and in
      reforming and making the processes more efficient. It is
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      clear from my perspective, and the industry's perspective,
      that we the Commission and the staff dedicated to change and
     clearly achieving results, in fact, in many cases, very
     dramatic results that are being felt at the plants and by
      the people in the field. I think that, as you asked in your
      opening statement, or mentioned, Chairman, that is really
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      one of the key indicators that we have been looking for.
     certainly, not change in Washington, there is a lot of
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11
      change that goes on in this town, but change to the people
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      where it really matters.
13
               Secondly, we have certainly Congressional
     interest, oversight, and I think, more importantly, support
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15
      and recognition of the important role of nuclear energy in
     the United States Congress that is growing, and I think that
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      is part of the factor that is important in providing that
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      support to the agency as we move forward.
19
               I think lastly, but by no means last, the
     dedication of the stakeholders, all the parties here, and
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21
     others, to try to provide their insights in these \operatorname{reform}
22
     activities. So I really do believe that we are moving
23
     forward and the results have been dramatic.
24
               I think obviously we have a lot of work to do, and
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     how we go about that is an important parameter in achieving
1
     long-lasting change, and I would like to focus some of my
     remarks, and I do have a few slides, if I could have the
     first slide, please, as we move forward.
3
               There is an old saying that if you don't know
      where you are going, then you will be satisfied with
6
      whatever you get. So, from our standpoint, we have
      provided, and this is the industry's view on what we believe
     the regulatory objective ought to be, and that is really to
      achieve a safety-focused, results-oriented and accountable
10
      regulatory Commission whose regulations objectively define
11
      adequate protection of public health and safety, are
12
      administered efficiently and effectively for the benefit of
13
     the licensees and the public.
              I might mention that, as we move forward -- my
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      next slide, please. We have really broken down into the
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      regulatory attributes, which are self-explanatory. I would
      like to provide the context of both near-term activities and
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18
      some longer-term activities that we believe are important,
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      along with some milestones from the industry perspective,
     and priorities, Chairman, Commissioners, for your
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21
      consideration. And that is the next slide, please.
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               It is important to mention that we have many other
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     activities that have been mentioned by our stakeholders that
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     need to be addressed by the Commission, material licensee
     issues, fuel fabrication facility issues, 10 CFR Part 70,
      and other activities which really are not within the context
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of today's discussion, but need to be recognized as important as we move forward.

I would like to go through just the near-term priorities, and I think we are -- these are covered well in 5 the programs that are underway. New regulatory oversight process, license administration, renewal and transfer. 8 Risk-informed, performance-based regulation, I might mention here that risk-informed, in-service inspection, in-service 10 testing, the tech specs, allowed outage times that you have mentioned are very important. Just as an example, on the 11 12 ISI programs that are underway. 13 From the ASME perspective, the Section 11 14 perspective, and, certainly, industry perspective, we have 15 the ability, with the changes moving forward, to eliminate about 60 percent of the inspection activities that are 16 17 really unnecessary and, with it, probably the largest 18 contributor to man-rem exposure that we have within our facilities. 19 20 So there is a very important win-win, perhaps even 21 win-win-win situation with the programs to look at 22 risk-informed processes like this, where we can actually 23 reduce the efforts and activities from both the licensee and 24 the regulator on these. On unnecessary activities, we can reduce the man-rem exposure and then we can use those 25 resources to really focus on what is important to safety. I encourage the Commission's activities in continuing to move 2 forward on these issues and certainly the industry is fully in support of those. 5 We have talked basically about the maintenance rule. I want to just clarify the whole plant study is 6 really the approach that we have proposed to the Commission, to use as pilots three licensee plants to look at how one applies risk insights to the entire plant as we move forward. We are pleased that that is proceeding, and, 10 11 obviously, trying to provide that as a foundation for an entire risk-informed Part 50. Next slide, please. 12 The issues on this slide, we are moving forward 13 14 on. I would say 50.54(a) rulemaking activities really relate to the graded QA activities that Harold Ray talked 15 about. Application of the backfit rule, in this area I 16 17 think we still need considerable work on -- and I think this is an area which needs to -- is being addressed by the 19 Commission, but is important to the industry, as Dr. Remick 20 has pointed out. In this area, really look at how one 21 applies that to decommissioning activities and other 22 activities, as well as the controversial issue of averted 23 on-site costs, especially as we move forward into a 24 deregulated environment from the cost of service situation which we are in today. 25 1 Last on that list, and we did not have this on the 2 original list to the Commission, was used fuel storage from two perspectives, and that was really not only the work in 3 dry cask, which is well identified and very important, but also the efforts on permanent repository and the licensing of that repository and identified the Part 63 activities to the Commission. We commend the Commission for taking steps

8 forward in these activities to try to bring these important

issues to resolution.

10 We move forward to a little longer-term priorities. We are really trying to look at how we bring 11 about risk-informed regulation. In a broader context, we 12 13 need to continue, we have looked out, on this priority, in 14 the 2000 to 2002 timeframe, recognizing that we can't do it all, or do it all certainly effectively in the near term.

A transition to selected Part 50 regulations that
are outside of those identified to date. The design basis
reform comment really relates to how, as we move forward and
make changes in risk-informed and performance-based types of
-- or regulatory activities, we then to look and to ensure
that we have the design basis of the plants in conformance
with and consistent with the changes that we have embodied
through the regulatory process.

I couldn't resist putting NRC staff size and containment on there for two main reasons. One is that --

you have commented, Chairman, that in questions about what people do you need, or should you de-regionalize, or continue the regionalization, we have to first figure out what the agency has to do. And from that standpoint, we believe that that is a priority which ought to be looked at but not be an over-arching priority in the near term.

We think that, obviously, you are moving forward to make some changes within the agency, and we support those, but we need to make sure that we have enough staff support and resources to complete the important work and set the foundation work in place. And, again, I think until we figure out what all that means from the standpoint of risk-informed and performance-based, that we cannot tell what types of resources are really truly needed or the types of people that need to fill that. So there is a balance in that approach that we need to achieve.

And, lastly, on the near-term priorities, really looking to the importance of taking a hard look, as you have already described, in the whole safeguards area, and reforming the safeguards area to ensure that we provide the regulations that are necessary to ensure the adequate safety of the plants from the standpoint of terrorists and other activities, and at the same time provide the balance to ensure that those don't impact plant safety in the operation of these facilities. We have to balance that as we move

1 forward

And the last slide, the longer-term priorities. Some issues that we have not really talked about very much, because they seem further off in many people's minds than others, but not in my mind, and that is how we move forward with the advanced plant designs and address some of the issues in the combined operating license, and how we proceed to move forward to license those plants.

As we look at the environmental discussions that are going on, have gone on in Buenos Aires, and as we look around the world, we really see the important need for nuclear energy in developed countries to ensure that we provide the energy supply while protecting the environment, and that is going to require, if you use DOE's recent announcement, not only relicensing of all the 100 plants that are operating in the United States, but constructing 68 new 600 megawatt reactors by the year 2015, just to meet 3 percent below the climate change limit.

So I think we are starting to see a significant future reality ahead of us and we need to ensure that some of the issues, COL issues that we have set aside for the future, it is going to be time to come up and start addressing those issues.

I guess the last thing which is our real challenge, that I must mention, is that I think we need to,

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through these processes, we need to develop the confidence
      in the regulations and the regulatory practices. And I say
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      confidence from the standpoint of the NRC staff, the
      Commission, the stakeholders and the public, that those
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      regulations and processes provide us the assurance of safety
      that we need to ensure the adequate protection. And if we
     have that confidence, and I think we are on the path to
 8
     developing that, that we will be much further ahead in
      ensuring the safe and efficient regulation of our plants.
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               Chairman, Commissioners, thank you.
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               CHAIRMAN JACKSON: Thank you very much.
               Mr. Collins.
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               MR. COLLINS: Thank you, Chairman. Speaking for
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      the Office of Nuclear Reactor Regulation and the primary
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      manager for the Reactor Safety Program, I would like to
     acknowledge those thoughtful comments that have been made up
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17
      to this time, and also acknowledge that a primary
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      stakeholder perhaps is not present, at least in front of us
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     today, and that is the regions. Clearly, the regions,
20
      regional management, the regional staff and, specifically,
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      the inspectors are a primary stakeholder in all of our
      activities today, and I will speak a little bit more about
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23
      that in a moment.
24
              NRR is committed to the process of improvement and
     change management. Some of our actions and accomplishments,
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1
     as acknowledged earlier, are summarized in the October 30th
     update to the tasking memorandum. What we have done to date
2
      as far as progress has involved some tough decisions, not
      all are popular, or perhaps even easy to implement, but we
      must focus on I think what was referred as cultural
      strategies during this process.
               Those have been defined for the Office of Nuclear
8
      Reactor Regulation. They are maintaining safety, reducing
      unnecessary burden, increasing efficiency and effectiveness
     of our processes and increasing public confidence. Those
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11
      cross-cut issues are being incorporated into all of our
      processes, including measurable outputs and outcomes.
12
               The NRR team is deeply involved in examining and
13
14
     improving our processes. We are involved in selecting
15
      outputs and desired outcomes, as I indicated, and
     determining appropriate measures and goals, and that is a
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17
      hard part. I think it was referred to by Mr. Lochbaum. It
      is a difficult process in the planning, budgeting and
19
     performance measurement area to determine what is success
20
      for a regulatory agency.
21
               We have the assistance of contractor Arthur
     Andersen, who has been working with us for over a year in
22
23
      this area. We have made some great strides. We have
24
     outcomes and deliverables that are due to the Commission in
      this area, and I hope that the results of that will be
2.5
1
      clearly evident to the stakeholders here today that have
2
      appropriately challenged us in those areas.
               The headquarters and the regional staffs are
      responding. What is important to me is change at the
 4
5
      interface. I think it has been mentioned here a few times
     and that is at the level where our programs actually impact
     our stakeholders, and there many of those. The states
     certainly are one, our inspectors influence change at the
      interface. Our project managers, who deal directly with
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     licensees. Dr. Remick referred to perhaps a negative impact
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      in that regard at the interface, and I would be interested
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      in the specifics of that. But we need to focus on those who
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      deal directly with our stakeholders, and change at the
      interface will be the measure of success.
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15
               Ultimately our programs must be predictable, must
      be objective, and they must be timely. In order to succeed,
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      licensees must bring issues to the NRC for review and
18
      resolution. In Dr. Remick's comments, there are two
19
      concerns when we deal with the new definition of CALs. One
      is the instance itself. The other is that those types of
2.0
21
      issues are not brought directly to the staff for resolution,
22
      and we have processes to accept those and processes to
2.3
      resolve those concerns, so, in effect, highlighting that
24
      issues raises both of those concerns.
25
               Through a continuing series of presentations and
      workshops, I know Dr. Travers, senior staff of the Office of
      NRR, as well as the regional administrators, have been
 2
 3
      deeply involved with the NRR staff and the regional staffs.
      work together to communicate our expectations, update our
      staffs on the status of change. But, as acknowledged by Mr.
      Nye, change is hard. Many of the attributes that were
 6
      referred to on how to manage change are those that we are in
      fact using as guideline and as principles within the Office
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 9
      of NRR, but they are very difficult. As Arnold Glasgow
      stated, "The trouble with the future is that it usually
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11
      arrives before you are ready for it," and I think that is
12
      true and we are preparing, and it is around the corner.
13
               As a learning organization, I know this is one of
      Harold Ray's points in his presentation -- Is the NRC a
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15
     learning organization? I look forward to the input of the
16
      stakeholders present and the insights that you will derive
17
     from that, as we continue to define our goals and refine our
18
      processes, while focusing on the value of reasonable
19
      assurance of adequate protection of maintaining safety. We
      can't lose sight of that core mission, particularly in the
20
21
      conduct of our business with the regions and change at the
      interface. Thank you.
              CHAIRMAN JACKSON: Thank you very much, Mr.
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24
      Collins.
25
               I will go to my Commission colleagues for any
 1
      comments they wish to make. Commissioner Dicus.
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               COMMISSIONER DICUS: Thank you. Yes, I would like
      to make just a few comments. One of my staff members, on
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 4
      the way down here, sort of indicated to me that the opening
 5
      comments might take up the whole morning, and I think we are
      close to reaching that goal. So I do have two or three
 6
      things I would like to say, so I will try to get on through
 7
      them fairly quickly.
 8
               First of all, it is great to be back, and I
      appreciate everyone's kind comments to me on returning.
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      Obviously, I was not participating in the earlier
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12
      stakeholders meeting, but I did read the transcript. I have
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      read other documents, the exchange of letters, so I have got
      a pretty feel for what has been accomplished. I think one
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15
      of the things that I recognized is that I think the issues
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      that we are dealing with have been fairly well defined.
      They need to be refined somewhat. I think Mr. Ray pointed
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18
      out some issues of policy that we need to take under our
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      wing and so forth.
               I heard also, as I read the transcript, and as I
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21
      have listened to other things, that we are dealing with
      solutions as well. I think that as we refine our issues, we
23
      really need to get into the solutions and check our progress
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and our process in accomplishing these things as we go 24 forward. I look forward to being part of this. 1 I note a couple of new stakeholders at the table. I would make special note of having a state representative 2 here. One of the things I have tried to accomplish in my first term on the Commission is to make, at the Commission level, a greater awareness of just what the impacts are of NRC activities and actions and rules, guidance, et cetera. We impact our licensees, obviously, but we impact beyond 8 that as well. Somewhere in the archives of this agency there are some letters from a former director of the 10 Arkansas program, not always happy with some of the things 11 the NRC was doing to us. So we do impact, and I appreciate 12 having the state representative here. 13 I think there are others that could be 14 represented. I think the Chairman said this is not 15 necessarily all the stakeholders that we have. I would 16 mention the possibility of professional organizations such 17 as ANS, and the Health Physics Society and organizations of 18 this type. We may be reaching critical mass, though, in the number of people that we have, so it may not be appropriate, 19 20 but I would like to mention one thing just real quick, that 21 you may not be aware of. The Health Physics Society has just, in the past 22 23 month, created an ad hoc committee to study regulatory 24 burden, and they are asking HPS members, and I am a HPS member, and others as well, to contact this committee with 25 1 issues that you have on regulatory burden. Now, it is not just the NRC, it will be EPA, or FDA, or FEMA, or DOE, et 2 cetera, OSHA. But regulatory burdens are going to be 4 5 a very useful tool for all of us to have. I would like just to close quickly by saying, when

captured by this committee. They are going to analyze these and come forward with a report. I think that would be also

I made some brief comments following my swearing in to my first term, I made the comment that being director of a state agency, and it was a large and comprehensive program, I had to interact with a large number of federal agencies, or parts of federal agencies, I think close to about a dozen that you really had to interact with. And through all those interactions, even though at times I would be annoyed with the NRC, it was -- without a doubt, the NRC was the best agency to work with. And nothing has changed my mind on

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I back up what Dr. Remick said, this is a good agency. It has a competent and professional staff. As we 19 20 deal with these issues, let's not lose sight of that, 21 because it is my confidence in this competency and in this 22 professionalism that gives me the added confidence that we 23 can, in fact, achieve these goals that we have set for 24 ourselves. I think that this staff, supported and guided by the leadership that this Commission is going to give it, 2.5

will achieve these goals that we have set for ourselves, and 2 I think we can be defined in the long term by the successes that we have as we work through the issues.

I am going to be here five years, you are stuck 5 with me. But it one of my goals of my office to see this through to completion, nor for the short term, but for the long term, that this becomes how we work and not simply a change and not progress, as was pointed out earlier. And that is a commitment that I make the stakeholders, but I

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CHAIRMAN JACKSON: Thank you.
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12
               Commissioner McGaffigan.
               COMMISSIONER McGAFFIGAN: I am going to play off
13
      of some of the comments that were made earlier. First, I
14
15
      will tell you to be aware of 12 year old girls when playing
16
17
               Let me just touch on a few of the points. One of
18
      the points made by Mr. Lochbaum was about good plants and
19
      bad plants, and a good plant, when the NRC comes calling,
      assembles all the good things it has done lately. I think
2.0
21
      we are not a bad plant. We could have done that, and I am
22
      going to tick off some of the things that are not in the
      plan that I think we have done well lately, but we
23
      consciously chose to focus, I think, on the things that we
24
      thought we had not yet made enough progress on, although
25
      many of them had been previously identified and we obviously
 1
 2
      are speeding the process.
 3
               One area, I mean I will just tick off some of
      them, Trojan reactor vessel with its internals intact being
 4
      approved for shipping to Hanford. The West Valley, we have
 5
 6
      put a paper out yesterday, and we are going to seek public
      involvement in the next month on what the decommissioning
 8
      standard should be at West Valley.
 9
               Part 70, which was referred to, we are going to
10
      open up a process, we are going to take some further time,
      work with stakeholders to perfect Part 70 before we put it
11
12
      out for proposed rule.
13
               Orphan sources, an issue that Jill, the last time
14
      she talked to us as a Commission, we are moving out with a
15
      rulemaking. I don't think it is in the plan, but it is a
16
      very important thing we are doing.
17
               Electrosleeving, we worked with Calloway and we
18
      found a way to approve Calloway to try the Framatome
19
      electrosleeving technique for repair of steam generator
20
      tubes.
               Leading edge flow meter. We have a rulemaking
21
22
      that will be underway shortly that has the potential for
23
      allowing power uprates on the order of 1 percent for much of
24
      the industry. We approved the Hatch and Monticello power
25
      uprates in the last few months.
 1
               One indicator I have, it is a personal indicator,
 2
     but I tend to be the Commissioner, I will probably get aced
 3
      out, having said this, who has a chance to go down and talk
      to the INPO managers when Mr. Hasty brings them every few
 4
      months in to us. I had Commissioner Merrifield come down
 5
      the last time they were in town, it was I think just about
      his first day on the job, and I said, I will get beat up,
      you may want to see it, these guys always bring issues to
 8
 9
      us. And by the time Jeff got there, it was sort of a
10
11
               I mean these managers who normally do -- are not
12
      at all averse to complaining, and they were one of the
      earlier indicators we had that there was there was a
13
      Severity Level IV issue, or that other issues were out of
14
15
      whack, were basically saying to us that they had seen a lot
16
      of change in the way we were dealing with licensee
      amendments in the last year.
17
18
               It wasn't uniform, but there was much greater
19
      professionalism in processing license amendments. They were
20
      concerned about our resident program, about the turnover,
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make it to the staff as well. Thank you.

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excessive turnover in their view and in my that we have in
     our resident program and how important it was, the resident
22
      relationship with them. They were still complaining, but it
23
24
      was a remarkably -- the enforcement guidance memo, however
      abstruse it may have been drafted, and I agree with some of
25
      that, that it had had an effect in the field that they had
1
2
      felt
               So I think there's a lot of things that we are
     doing that we are doing well. Not all of them are in the
4
5
      planned Part 63, the rulemaking that Mr. Colvin referred to.
              What we are trying most of all to do, and this
      follows up on something Mr. Collins said, we are trying to
8
     communicate. We are happy to have these meetings. We are
      communicating in every way we can think of at the moment.
     Maybe there's too many meetings for small organizations and
10
11
     Mr. Lochbaum has commented to me about now being able to
12
     attend them all, but there -- we are trying desperately to
13
     not have anything under the table -- get everything out on
14
      the table, understand what the issues are, and then
15
     prioritize the dealing with them and meetings like this can
     help us do that, but I am very optimistic that we are making
16
17
      progress, not all of which is in this plan, that we can make
18
      further progress in the years ahead.
              It is going to take time, and the last comment I
19
20
      will agree with is Jill's. This is a plan that will never
21
     be complete. All of the people who talk about change -
     indeed. I was at an NEI meeting a few weeks ago where there
22
23
      was a person talking about change. The thing to communicate
24
      is that change doesn't end.
25
               We are going to have to be a learning
1
      organization, an agency that is constantly trying to improve
2
      over a long period of time, and \ensuremath{\mathsf{I}} think we recognize that.
      I think we have tremendous challenges.
               The Staff is trying to make progress in all of
5
      these areas and other areas that I have mentioned and other
      areas I haven't while downsizing, while reorganizing and
      while probably getting to the hairy edge of disfunction, and
8
      our goal is to get through this in a way that we remain
     highly functional, highly effective, but we'll see whether
     we succeed. Why don't I leave it at that.
10
11
               CHAIRMAN JACKSON: Thank you. Commissioner
12
               COMMISSIONER MERRIFIELD: Madam Chairman, as it is
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14
      five minutes of 11:00 I am the last person to make opening
15
     comments.
               I have some good news and bad news. The good news
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17
      is that I have no prepared comments.
18
               [Laughter.]
               COMMISSIONER MERRIFIELD: The bad news is that as
19
20
      a Senate-trained lawyer I still have a few things to say.
21
              [Laughter.]
               COMMISSIONER MERRIFIELD: First off, like
2.2
23
      Commissioner Dicus I would like to thank everyone,
24
      particularly the folks here at the Commission who have given
2.5
      me a very warm welcome and a tremendous amount of assistance
     in terms of getting up to speed to the very important
2
     decisions that we are having to make in these -- in these
      opening weeks of my term as a Commissioner.
               The second thing I think I want to talk about a
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5
     little bit is the stakeholder process. I think that having
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stakeholder meetings like this are critical. We utilized

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those when I was working up in Congress. I think they are
              very, very helpful. I think it gives direction to the
              Commission as to how we should move forward. I think it
              gives greater buyer input, stakeholder input in terms of
              what we are doing. I think it ultimately will lead to a
11
12
              more satisfying result.
13
                                    I agree with Jill Lipoti's comments that we should
              try to regularize this and do this often. The Chairman has
14
15
              also mentioned that.
16
                                   I will say one personal comment about the
17
              stakeholder meetings. Similar to my reactions to
18
              Congressional hearings, I want to get to the questions. We
19
             have got some interesting issues that I would like to see us
              have a dialogue on and then the reaction.
20
21
                                     Taking two hours to go into opening statements --
22
              I think the next meeting we all ought to have some
              self-imposed discipline to try to do that.
23
                                     James Riccio had very brief comments at the
24
25
             beginning and I thought that was the way to go, and perhaps
              we can replicate that next time.
 2
                                     In terms of a reaction to the some of the comments
 3
              made, the only one -- and not to pile on to David Lochbaum,
              but the only one I wanted to focus on was a statement that
              he made to the extent that the true purpose of what we seem
              to be doing is to convince the Senate to leave the NRC
              alone. I don't feel that way.
                                    When I was confirmed for my position, one of the
 8
 9
              things that I made note of was that I think that strong
10
              Congressional oversight is good for this agency. I think it
11
             ought to happen often, and I am welcome to -- I feel very
12
              open and welcome to go up to the Senate and the House
13
              frequently to explain what we are doing and hopefully we
              will have a good message to take with us when we do.
14
15
                                   Finally, I do want to make note of a comment that
16
              the Chairman made about the Operational Safeguards Response
              Evaluations Program -- the OSRE program.
17
                                     We did have some comments made about that.
19
              Recently I had the privilege of sitting in a Chairman's
20
              briefing that she had put together to go over that program.
21
              I am in agreement that we need to put that program back into
22
              place. I think there needs to be greater buy-in of our
23
              stakeholders into how we should be utilizing that process.
24
              Now that is not to say that that program ought to stay the
25
              way it is. Given the information that we were provided, I
              think we need to do a reanalysis. We need to make sure that
 1
              safety is upheld at those facilities but in a cost
              effective, reasonable and adequate manner, and so I look
              forward to the Staff review of that, and that is something I
              think the Commission certainly should grapple with very
  6
              soon.
                                     Thank vou.
                                     CHAIRMAN JACKSON: Thank you very much.
 8
                                     We do want to get on to the questions and in fact
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              I have a couple that I would like to throw out to the group,
              but my only summary comments are two.
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12
                                     One is to thank the various participants, even % \left( 1\right) =\left( 1\right) \left( 1\right)
13
              though it was a lengthy process. I, too, note Mr.
              Riccio's -- the succinctness. Nonetheless, I think all of
14
15
              the opening statements made some very perceptive
16
              observations and assessments.
17
                                     But one thing I will say about the plan -- okay --
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the tasking memo response. Now the difficulty of a plan is
18
     the benefit of the plan, namely that it does give a focus to
19
      certain specific areas, but in having that plan and giving
20
21
      focus to it, and we will be discussing various aspects of it
      today, let us make no mistake. I mean the NRC is a complex
22
23
24
               It has a day-to-day regulatory program to carry
25
      on. There are any number of initiatives and activities that
      are not captured in that plan, including some that a number
1
2
     of the participants said were missing from the plan -- and
      they are missing from the plan. That does not mean that
     they are not given high priority and, as Commissioner
5
      McGaffigan pointed out in some of his comments, it does not
      mean that there is not progress made in any number of areas.
7
               We have debates about whether in fact everything
8
      ought to be in the plan, okay? -- and Commissioner
      McGaffigan and I engage on that quite a bit --
10
               [Laughter.]
11
               CHAIRMAN JACKSON: -- but the point of the plan is
12
      the benefit of the plan, namely that it does provide
      specific focus in specific areas to try to have achievable
13
     objectives that support, and that was the point, our
14
15
     long-term goals, and so the long-term goals are still there.
     There are any number of other activities that go on, and so
16
17
      the action plan also -- and this is not outside the normal
18
      management process. In fact, the Staff was given explicit
     instruction that whatever it did was to be incorporated into
19
20
     what we call our planning, budgeting and performance
21
      management process, which is how we manage today.
22
               Mr. Collins mentioned the work with Arthur
23
      Andersen, which is ongoing, that predated the plan. In
24
     fact, it has helped particularly in the reactor area, NRR
     and others involved in reactor regulation to incorporate the
2.5
     elements of the plan into, in a comprehensive way,
1
2
      everything that is going on.
               The final comment is that Mr. Travers and Dr.
      Knapp, who is our new Deputy Executive Director for
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5
      Regulatory Effectiveness, as of December the 1st, is that
      it? -- as of now --
               [Laughter.]
               CHAIRMAN JACKSON: Yes, October the 16th, that's
 8
9
      Monday, right.
10
               They have been explicitly charged with this issue
11
      of developing a coherent self-assessment process and the
12
     metrics, the appropriate metrics that are a part of that,
     not just for the elements of the action plan, but in all of
13
14
     our activities and in fact that is what the regulatory
15
      effectiveness organization is about, and so they are
      listening very carefully to us today because one thing we
16
17
      wanted to be able to talk about was in fact what are
18
      appropriate metrics -- and so that is the first question, in
      fact, I would like to pose to the group.
19
               A number of you have mentioned the need to have
20
21
      metrics, to be able to measure progress not only on specific
2.2
     item but in a coherent self-assessment sense and so I ask
     the various participants what -- you know, what your
23
24
     thoughts are in that regard.
2.5
               Mr. McNeill.
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1 MR. McNEILL: Madam Chairman, I think this is a
2 very difficult issue because I think the whole framework may
3 not support it, and I am going to go back to an often-used

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and probably misused example of how we would measure
5
     progress.
              The one I have is that as the industry performance
 6
     has improved over the years, we are getting inverse measures
     coming back of increased violations and things of that
8
     nature, which tell me to some extent the context is wrong,
9
10
     and I would only caution you to make sure that the measures
11
     you use are not ones that maybe have been used in the past
12
     but they are ones that are more appropriate for future
13
     directions, because I think you could misinterpret some of
14
      this as progress when in fact it may not be true progress in
15
     the direction you might go.
16
             CHAIRMAN JACKSON: Let me ask you this question.
     Is number of violations an appropriate metric?
17
               MR. McNEILL: If the standard is correct, I think
18
      it is, and I do, I believe that NEI is working, and I do not
19
     know the degree of which they are working, are keeping the
20
     NRC informed and the development of a threshold mechanism of
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22
     regulatory versus non-regulatory space, if you want to call
     it that, so that there is a space of operations that is
23
24
      exclusive for the utility to operate in as long as we don't
25
     broach or breech into the next level.
1
               If that concept is appropriate, and I personally
2
     believe from what I have seen to date in my experience I
     believe it is, then if that borderline is established
      correctly, then I think measures of violation, if you want
5
      to call it that, or excedences within crossing that boundary
 6
     line are appropriate measures.
              CHAIRMAN JACKSON: Okay. Mr. Riccio, did you have
      a comment you wanted to make?
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9
               MR. RICCIO: Only that it's going to be very
10
     difficult to use violations as a measure, since you have
      continually altered how you are going to be issuing your
11
12
      violations. You have wiped out Level 4 violations --
13
              CHAIRMAN JACKSON: That is not true.
              MR. RICCIO: Okay. Okay -- well, you have reduced
14
15
      the number of Level 4 violations.
               CHAIRMAN JACKSON: Let me back up.
16
               The intent in the changes in the enforcement
17
18
      policy, and I think I agree with the comment that was made
19
     having to do with perhaps that we could have stated the
20
      changes with a greater degree of succinctness and clarity.
21
      the intent was to reduce the burden associated with Level 4
22
     violations and so there were specific changes made having to
2.3
     do with the burden on the licensee in terms of response to
24
     violations of a certain type.
              MR. RICCIO: I understand we are trying to reduce
25
      the burden on licensees here. My problem is you have so
      continually changed your assessment process for these
3
     reactors that I see how you are going to have a lot of
     difficulty seeing whether you have actually moved forward or
5
     backward.
 6
               That is basically my comment.
               CHAIRMAN JACKSON: Okay. Yes, Ms. Lipoti -- Dr.
     Lipoti, I apologized earlier for not addressing you
8
9
     appropriately.
10
               DR. LIPOTI: It's okay. I would like to comment
      on the enforcement initiatives because whether or not you
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12
      set the number of enforcement items as a performance
13
      indicator the media will use that as a judgment of your
14
      performance and in my experience the Governor's record on
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the environment was based on two things -- the number of FTE 15 in the agency and the number of enforcement actions, and it 16

was an unfair metric. 17

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We previously had used administrative orders to order people into compliance and that gave them 90 days to come into compliance, and we go a 63 percent compliance rate at the end of the 90 days.

22 We changed over to more effective "field notices 23 of violation" where the people were issued a notice right there. They had 30 days to come into compliance and no 24 25 fine. We had 76 percent compliance in 30 days. It was much

1 more effective, but on our report card in the media it 2 looked like we were becoming less effective, so I think it is extremely important not only for you to choose your metric but to communicate that metric and the application of 4 5 that metric to the public.

CHAIRMAN JACKSON: Mr. Collins, you were going to make a comment?

MR. COLLINS: Yes. Thank you, Chairman.

If I understand the question correctly, I would provide an insight to get back to what enforcement really is and where enforcement fits in the process. As you stated, our threshold of safety is reasonable assurance of adequate protection and compliance provides your presumption conclusion, presumptive conclusion that licensees are safe.

Noncompliance does not necessarily mean that a licensee is not safe. In other words it takes an analyses to understand the situation, so therefore as the sole indicator, I believe that there's probably more to bring to the table

The new assessment or oversight process that we are looking at I believe has the order in a way that fashions an appropriate place for enforcement, and that is we need to assess what is important to measure at a plant.

We need to be able to inspect that. We need to be able to have an enforcement tool that reinforces those

values, and then we need to have a reporting scheme that is 1 2 consistent with that, so to say that enforcement is an indicator, it is an indicator but I think in the overall context of it is risk informed in its processes. Are we 4 understanding how it fits into those other attributes of an oversight process is probably as important as the sole indicator itself.

You recall the IRAP process, which focused on enforcement. It was not perhaps the right tool and that is why we are looking right now at the second round, if you will, of those processes, so I think we need to be very careful about that as an exclusive indicator.

CHAIRMAN JACKSON: Mr. Lochbaum and then 13 14

Commissioner McGaffigan.

MR. LOCHBAUM: I think addressing the question of what is a successful metric for measuring the effectiveness of the change, even though UCS has persistent problems with the agency's allegation process, we think the fact that there is an agency allegation advisor whose function is to ensure there is consistency on how that program is implemented, and also conducts periodic assessments of how well NRR and the various regions are implementing that

23 process, is a mechanism to ensure safety -- or not safety -ensure effectiveness of changes or processes, and things 24

25 like that should be considered whenever possible. They are

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would be good.
               CHAIRMAN JACKSON: So what is the specific
      recommendation?
               MR. LOCHBAUM: That in these changes for
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 6
      inspection process, assessment process, and whatever,
      consider the use of something analogous to the agency
      allegation advisor role in monitoring those programs.
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               CHAIRMAN JACKSON: Okay. Commissioner McGaffigan.
               COMMISSIONER McGAFFIGAN: I have two comments.
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               One, we got off on enforcement, so I will stay
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12
      there for a second.
13
              I think we do the best with the indicators that we
      have and the reason, addressing Mr. Riccio, we had a problem
14
      with the Severity Level 4 is what Corbin McNeill referred to
15
      earlier. There was cognitive dissonance between an
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17
      indicator which was going up by a factor of three over a
      very short period of time after a change in 1996, so part of
18
19
     the problem was indeed the change and the general good
      performance of the industry in terms of other performance
20
21
      indicators, so when you get indicators that are indicating
22
      two different things, you have got to ask yourself a
      question.
23
              In that particular case Mr. Lochbaum has been
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25
      intimately involved in the process as a public member and
      indeed I think has endorsed the Staff recommendation to the
      Commission that is currently before us including the only
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 3
      issue in dispute or one of the few issues in dispute is
      whether we continue to write up these infractions in our
      inspection reports or not, and he has said as the Staff has
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 6
      said that they would like that we should.
              The industry has suggested that it calls undue
      attention to what may be relatively minor stuff compared to
8
 9
      everything else in their corrective action program. We'll
10
      resolve that, but I think indicators -- we are going to use
      the best indicators we have.
11
12
               Enforcement is inevitably going to be one. We
13
      have to understand what it is it is measuring and we have to
14
      understand where it is that it is in dissonance with other
15
      indicators
16
              More probably I think there are some of these
17
      areas where we are changing it is easy to have indicators.
18
      You know, either we are doing license renewal, the safety
      evaluation report and the final environmental impact
19
2.0
      statement for Calvert Cliffs are either done next November
      or they aren't. The follow-on ones for Oconee are either
21
22
     done on time or they aren't.
2.3
               The goal of the Commission is established for 95
      percent of the licensing actions being completed within one
24
      year and all within two, which is a significant change from
25
 1
      past practice, a goal that we expect to achieve in the year
      2000 -- either it is achieved or it isn't, so some
 2
 3
      indicators are easy.
               For some other processes it's much more difficult
 5
      and it is going to be a learning organization making --
 6
      doing the best we can and then the input we get from others
      making adjustments.
               CHAIRMAN JACKSON: You know, if I think back on
      kind of a binning, and I have talked about it before in
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      speeches and even in the tasking memo to the Staff, if I
      think back on the nature of the criticisms and from whatever
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not right for every change but whenever appropriate that

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      side, from licensees, from former Commissioners, from the
     Congress, from public interest groups what I hear are
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      problems with clarity of expectation, with objectivity, with
14
      predictability, with quality of product, quality of
15
     interface and safety focus, so how do you go from there,
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      which have been the areas -- think about them in the
17
     large -- where the criticisms have been to metrics that tell
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19
      you there's been any change in those areas?
20
               Well, let me try something else. How do you
21
      measure appropriate safety focus? Is it presumptive if we
22
      develop a risk-informed framework? How do you measure
      clarity of expectation, through the use of performance
23
24
     indicators, with appropriate thresholds built in? How do
     you measure predictability? Does it require a template to
2.5
     be laid out and this is how you are going to be measured?
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               Because this is important. It is important not
     just in terms of specific metrics for specific things and
      whether the number of enforcement actions or number of
4
     violations can or shouldn't be used, because these get to
      the heart of where NRC has been criticized and so unless we
      can hear something from you, relative to how do you get at
      that, then you are leaving us hanging, and I so I am asking
     you, Mr. Ray.
              MR. RAY: Well, I have been pondering your
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11
      challenge to us here and the thing that occurs to me is that
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      in our business as it is changing we are finding that we are
13
     having to engage in metrics which measure our customer
14
      satisfaction. Now "customer" is a bad term to use in this
15
      environment, so we should substitute "stakeholder," I
16
      suppose, but I would simply offer to you, Chairman Jackson,
17
      that it is possible to associate with the various areas that
      you have just now been talking about -- clarity,
18
19
     responsiveness and so on, a systematic and I want to call
      capable of being repeated with some fidelity.
20
21
               Mr. Riccio mentioned that violations are not good
2.2
      when the basis is changing for what becomes a violation and
      that is correct, but over time at least we are finding that
23
      we need to are implementing programs to measure the extent
24
25
     to which our stakeholders are satisfied with our performance
1
     in a number of fairly soft areas like you mentioned, and I
     would simply offer to you that those tools are available to
      us and that the Commission give consideration to trying to
4
     bend these things as you suggest to define a stakeholder
5
      population and to have somebody measure the degree of
      satisfaction or dissatisfaction that exists among that group
     over time.
               CHAIRMAN JACKSON: Well, in fact, I have asked Mr.
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9
      Travers to do that.
10
               Mr. McNeill and Commissioner Dicus.
11
               MR. McNEILL: I would agree. All right, I'll give
12
     you an example. My sense of this industry over the last
     eight years or 10 years is that we get the NRC's attention
13
      generally speaking after we do some validated review -- INPO
14
15
      going out four years ago and questioning plant managers and
16
     developing a database that they brought back to the NRC in
      some form. In fact, we had a survey I believe by an outside
17
18
     consultant.
19
               I can't remember once having a stakeholder
20
     satisfaction survey done by the NRC of utility personnel,
21
     whether it is the industry or otherwise. I can't remember.
22
     There may have been one but I can't remember, so I think
      that there is a valid place for well-designed periodic
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surveys -- you know, in this case clearly two years would be the minimum timeframe I would have -- maybe at three year 25 intervals the NRC going out and really doing it. That can appropriately be done on Congress and others. It doesn't 2 have to exclusively be people sitting at this table. 3 On the second part of this, my experience would lead me to believe that there really is a fairly effective 5 6 safety focus, series of things that you focus on, and you maintain one of them very well and that is the events, significant events. I mean that is very compelling issue. 8 9 Likewise, I think an appropriate review of either 10 employee satisfaction, concerns, at facilities or within 11 corporations is a good review and how you do that I don't 12 know other than a database that you have where you get allegations and things of that nature in looking at how many 13 of them might -- you have to separate the wheat from the 14 chaff in that kind of a performance indicator, but clearly 15 16 it is one that I think we look in our own company. We 17 survey our employees once a year and in fact in our nuclear 18 organization we put in specific questions around our safety 19 culture and how they view that, but we do in fact get some 20 feedback in that regard, but I think that those are the 21 things -- and then status of performance under the maintenance rule -- those would be the three general areas I 22 2.3 would look at around the safety focus. 24 CHAIRMAN JACKSON: Commissioner Dicus. 25 COMMISSIONER DICUS: Well, Mr. McNeill partially 1 stole my thunder but I think I can add perhaps a little bit 2 more to what it is. 3 You know, some of the metrics, if you are talking 4 about a quantitative metric, as Commissioner McGaffigan says, it is very simple. We either did it or we didn't. 5 It's a simple number and we can define the success of what we are accomplishing in that way. Other metrics may be somewhat more difficult, and 8 as you noted, the metric may be wrong if we have established 9 the wrong standard or it is not the right metric for what we 10 11 need to find out, but those are quantitative measurements 12 and I think what you are really coming to and what Mr. Ray 13 and Mr. McNeill indicated is when you have to have a qualitative metric, and the numbers can be easier to deal 14 15 with, but the qualitative metric may be much more difficult, but we shouldn't be afraid of having qualitative metrics nor 16 17 should we be afraid of evaluating ourselves accordingly. 18 We have heard some good suggestions about how we 19 might do that, and I tend to support those as a way for us 2.0 to measure qualitatively when there isn't a quantitative 21 metric how we are doing. CHAIRMAN JACKSON: Dr. Travers and then Mr. 22 23 Colvin. 24 DR. TRAVERS: Since I am charged with what we are talking about, I thought I better chime in. 25 1 The thing that struck me about metrics and in this 2 case in particular drawing out external and internal 3 stakeholders is this notion that while we are about the identification and conduct of a set of near-term initiatives, what we seek in the longer term is to continue to really facilitate the kind of change based on the development of new tools like PRA or anything else that may come up and so a qualitative assessment periodically

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conducted that focuses in on satisfaction or some measure of
      stakeholder views on how our performance is going has an
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      appeal that transcends the near-term and should be one that
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      we can use usefully in the long-term, and so I think that
      that has an advantage, and as others have pointed out. I
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      agree, there are many of the initiatives that we're about
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      that can simply be identified based on how we are doing and
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      whether or not we are meeting intent and milestones.
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               In the longer term and I think more broadly, the
      expectations of stakeholders and their views on how we are
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19
      conducting our regulatory oversight program founded our own
      significant view on how we are doing that by virtue of
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      self-assessments and so forth provide a good foundation for
2.2
      this kind of metric.
23
               CHAIRMAN JACKSON: Mr. Colvin.
               MR. COLVIN: In thinking about the question and
2.4
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     picking up on the comment I think there were in reality two
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     surveys that were done by the NRC if you think
     retrospectively on licensee perceptions about the
      effectiveness of the regulatory process, one in 1989 and one
      I believe in 1983 or 1982 -- I can't remember that far back.
4
5
      although I participated in both of them.
               CHAIRMAN JACKSON: We have to be careful because
7
     you are the historian.
8
               [Laughter.]
9
               MR. COLVIN: But I think if I think about that and
     your question. Chairman, I would say that those were not
1.0
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      effective for two principal reasons.
12
              One is that they were of limited scope. As I
13
      recall, whether it was 12 or 15 licensees or whatever, and
14
      it really didn't cover the industry and the feedback.
               The second issue is they were not independent.
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16
     Your own people went and asked the licensee what they
      thought about what your people were doing to them --
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18
               [Laughter.]
19
               MR. COLVIN: -- and from that standpoint the
      results were somewhat mixed, and I would say also the
20
21
      conclusions that were drawn by the people that did it, and I
22
      am not trying to demean what they did, but in fact were not
23
     objective from the standpoint of what you are looking for.
               So as we look at customer satisfaction surveys,
24
25
      feedback, we need to consider an effective approach in
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      setting the climate for getting the results that you desire.
2
               I guess the other issue is with respect to
      specific metrics, and when we thought about your questions
      about the metrics one thing is I don't really know and I
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 5
      don't think our people know what you currently measure or
6
      monitor -- I mean within NEI and I think within most
7
      companies everybody has their own set of metrics -- periodic
      management reports and other things that we monitor for our
8
      own business -- but in the case of your question I don't
      know what those are, and so it is difficult to give you an
10
11
      assessment or feedback on what those might be without having
12
      at least a basis.
13
               I think I would encourage the Commission as you
      develop these metrics or as you have them perhaps the
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     communication side of that, getting them out, we could
16
     provide you some feedback on our view about those or
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      certainly the stakeholders' views. That might be an
18
     important way to go.
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              I guess the third point on that is that there are
     some metrics which -- I don't know whether metric is the
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21
      correct term -- but some issues which have been identified
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     by the stakeholders which go back to the guestion of call it
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      predictability, stability -- pick your choice, your term of
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      art, but there are many issues -- confirmatory action
      letters and other issues -- which somehow we have to get a
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1
      handle on where we are circumventing the processes that you,
2
      ,the Commission, have put in place, whether it is with
3
      arm-twisting or whether it is with the use of a CAL, or
 4
      whether it is the Staff not adhering to some provision of
5
      the backfit rule or whatever, I think that those kinds of
      issues which are underlying and fundamental to change the
 6
      Commission needs to grapple with and they may be not easily
      measurable, something you can't graph on a chart, but they
8
      are very important to the success of your change activities
     and certainly I would be happy to discuss that further.
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               CHAIRMAN JACKSON: Thank you. Now actually it's
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12
     interesting because I think a number of the speakers have
13
     mentioned an issue having to do with management oversight
      and one speaker even mentioned -- one could call it
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      accountability or performance appraisal, and having these
      things inculcated in that way, and I think that is a very
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17
      important point to elevate because people respond to what
      they are asked to do and I, like any number of my
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19
      colleagues, including Commissioner Dicus this morning, feel
2.0
      extremely strongly that NRC has a very competent,
21
      well-educated, motivated, dedicated Staff who believe that
22
     they are safety-focused.
23
               Therefore, if things are going awry, then one has
24
      to ask a question about whether they are getting the
25
      guidance they deserve, whether they are getting the
1
      management oversight they deserve, and whether within our
     appraisal systems or whatever they are being help
2
      appropriately accountable, but you cannot hold people
 3
      accountable if you haven't given them the guidance in the
      first place and the tools to do their jobs and so I think it
5
      is important that we don't propagate into pejorativeness, as
      it were, about the Staff without realizing that as we make
8
      change we are going to have to be sure that all of our
     internal processes come along with that to ensure that that
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10
     change occurs so that it is not something where we are
11
     blaming people or holding them accountable for what hasn't
12
      been laid out to them.
13
               Commissioner McGaffigan.
               COMMISSIONER McGAFFIGAN: Mr. Riccio may have had
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15
     his hand up first.
               MR. RICCIO: You can go first.
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               CHAIRMAN JACKSON: Oh, I'm sorry.
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               COMMISSIONER McGAFFIGAN: One point I am going to
      make about the process. It picks up on something in Mr.
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      Lochbaum's prepared remarks and I think bears on it.
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               When we make these changes we are going to have
     DPOs and DPVs and Mr. Lochbaum in his prepared remarks
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23
      expresses some concern about out DPO/DPV process because
24
      some people from our Staff have gone to him in order to get
      issues elevated to the Commission level.
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I think that is still an exception. One of the
things that we are -- you know, the DPO/DPVs obviously
worked effectively in the case of OSRE in the last week or
so, although they may have gone to the media in order to
come back to the Commission, and that may speak to the speed

of our DPO/DPV process, but I'll tell you, there's a fair number of papers now coming to the Commission with differing professional opinions attached. In two cases -- in one case we applauded the 1.0 person and agreed with them and it resulted in a change in 11 policy. In the other case the Commission unanimously 12 decided against the person but commended the person in our 13 SRM, in our Staff Requirements Memorandum for having made it 14 a better process and for raising some issues as to how one calculates doses for folks and some of the art in doing 15 16 I think what we are trying to do is we realize we 17 have a very competent Staff. There are differing views out 18 19 there. We want to hear those differing views and then we 20 are going to make decisions. 21 The Commission doesn't always agree. I mean there 22 was reference earlier to the maintenance rule being less 23 than a unanimous vote back in 1992. No Commission has fully 24 agreed, I don't think -- and some parts of us may agree with 25 some parts of the Staff and some parts not, but one of the things that we are going to have to do as we go through with 1 change is deal with differing opinions coming at us from 2 differing directions, deal honorably with those, hear them, and then we will either agree or we won't agree with the 4 differing view. 6 It would be interesting -- some of you all have gone through massive changes and you have differing views in how you have managed the change, making sure that you respect the views you are hearing yet still keep moving, and 1.0 that is something we are going to try to do, but as I said 11 the bottom line is I think our DPO/DPV process is more 12 robust -- at least it is being utilized --13 CHAIRMAN JACKSON: Robustly. COMMISSIONER McGAFFIGAN: -- robustly at the 14 15 moment and yet it is also slow and we need to -- it's yet 16 another one of our processes when we look at it we may well have to challenge ourselves as to how to make it more rapid 17 and resolve things more rapidly. 18 19 CHAIRMAN JACKSON: Right, and in a separate arena 20 but related to this general point of view, the Staff is 21 encouraged and it began with strategic assessment, on 22 particularly important and controversial policy issues, is 23 told to bring options to the Commission, not necessarily a 24 recommended position, or it can be a recommended position, 25 but what the additional options were that were considered as well as getting separate legal opinion of our legal counsel, 1 2 so that the Commission has the full panoply of positions and 3 issues before it. Mr. Riccio and then Mr. McNeill. 4 5 MR. RICCIO: Well, just addressing how you assess whether or not this whole process has been successful, there 6 are a few things I think would be along that line. First, that every licensee complies with -- knows 9 what its licensing basis is and complies with it. 10 I don't think we can make that statement at this 11 point. Actually, I know we can't make that statement at 12 this point. 13 The reason, one reason we have had a massive increase in the number of low-level violations is because 14 15 NRC has decided that they were going actually determine 16 whether or not the licensees met their licensing basis. A lot of those LERs come out of design basis issues which have

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      then reflected themselves in violations.
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               We would think that having each licensee knowing
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      what its licensing basis is is also essential for you to
21
      carry out your process.
               As Mr. Collins has indicated, the NRC cannot
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23
      determine that a reactor is safe to operate absent
24
      compliance with the licensing basis.
               Secondly, another way to assess whether or not
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      this process will be successful is whether or not you are
      again surprised by things like another Millstone or another
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 3
               I am upset a little bit that the GAO wasn't here,
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      because I think they have a lot of important insights and
 5
      they were a good addition to the panel last go-around.
               CHAIRMAN JACKSON: They were asked to come.
               MR. RICCIO: I understand that.
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               CHAIRMAN JACKSON: They chose to decline.
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               MR. RICCIO: I understand that.
               One of the findings, and I don't expect you to
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     take the findings from GAO or even people like me, but I
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      would at least expect you to follow the advice of your own
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14
      Staff
               One of the major findings to come out of your
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16
      assessment of the South Texas project, another
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      Millstone-like problem, was that the use of uncited
      violations led you down the primrose path at South Texas.
               Well, closing your eyes to Level 4 violations to a
19
20
      certain extent will lead you down that same path again.
21
               The third thing I would like to see -- how you
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      would be able to assess whether or not this whole process
23
      has been successful would be hopefully that you wouldn't
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      have any what I would call post-mortem mea culpas. These
      are the revelations that have come out about other places
25
      where licensees have not met their licensing basis. This
      only comes to light after the reactor has been shut down --
 2
      basically had a emergency core cooling system being
      undersized for 28 years and not knowing whether it would
 5
      have been able to perform its function -- the Big Rock water
      storage tank is another example of that.
 6
               I think you have had similar instances at Maine
 8
      Yankee as well, so it is not going to be a quantitative
 9
      assessment but a qualitative assessment.
               If the NRC is again surprised by being caught
10
11
     unawares then I think this process will not have been
12
      successful.
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               CHAIRMAN JACKSON: Okay.
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               MR. RICCIO: And hopefully it will be.
               CHAIRMAN JACKSON: Thank you. Mr. McNeill.
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               MR. McNEILL: I would like to speak to
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      Commissioner McGaffigan's remarks because I think there's,
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     from my experience there is an interesting issue here,
     because most of these issues similar to what I call -- refer
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      to as differing professional opinions generally in my
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      experience tend to arise out of a diversity of qualitative
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      risk management, whether it is business risk, whether it is
23
      to some degree safety risk, whether it is legal risk that
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     you as a corporation or entity are trying to define, and to
      me it has been beneficial in our organization to have a
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1 healthy discussion, to accept that input, but once you make

2 a decision to try and make sure that that gets filtered back

understand what the risk tolerance of the organization is on a qualitative basis when you can't necessarily define it quantitatively. 6 7 The better that you can do that as an organization, the more you will tend to have harmony, productive output and will tend not to waste effort and 1.0 cause some degree of divisiveness that can occur from time 11 12 CHAIRMAN JACKSON: Let me -- okay, Dr. Remick and 13 Dr. Lipoti and then we are going to move on to another 14 topic, please. DR. REMICK: Several of the panelists have 15 16 suggested customer surveys, which is in general I think a 17 good idea, but if one just goes out every two years and basically asks some general questions about how the NRC is 18 19 doing I think you will get back so many diverse reactions 20 from people that might not be helpful but tying that 21 together with the various activities you have underway now 22 in response to input from Congress, stakeholders, Staff and 23 so forth one of the things you might consider is as you complete what you consider to be important actions in 24 25 response to these inputs, as I have indicated, you have done 1 some kind of assessment to make sure that in your own mind you think that it's been effective in carrying out what you 2 3 intended. 4 You might take a couple of those and go out to 5 licensees and others and specifically ask, basically tell them this is what we have done in response to input and this is what we have accomplished -- do you think this resolves the problem that was foreseen by the various input? In other words, used focused questions on specific actions you 10 have undertaken which you think are important in response to 11 input and see if people do agree with you that from their standpoint it's been effective. 12 13 CHAIRMAN JACKSON: Okay. Dr. Lipoti. DR. LIPOTI: I am worried about a survey of 14 licensee satisfaction that it doesn't get to the margin of 15 16 safety question which is really what you want to get as the 17 bottom line at NRC, and so I think you are really talking about two different kinds of metrics here. 18 19 One is a metric that measures the efficiency and 20 effectiveness of the Nuclear Regulatory Commission in 21 maintaining margin of safety. 22 The other is a metric to measure change within the 23 agency -- two different things, two different performances that you are measuring. 24 25 I think Joe Colvin mentioned what are your metrics 1 now, because that is a baseline in determining your effectiveness and efficiency. If you say that it takes you 2 60 days now to issue a tech spec change, and you change it to 45 days or 30 days, then that is a metric. That is measurable and it is something that you can use to measure efficiency. Effectiveness is different. CHAIRMAN JACKSON: Let me make a comment to that, and I am expressing a personal bias. I think efficiency is an appropriate metric but we have to be careful in how it is applied, because people talk 10 about applying a number of days goal that should be a goal 11 to a tech spec change, but not all tech specs are created 12 13 equal in terms of the complexity of the change, and so we need to be sure that we don't lose sight of that, that there

into the organization so that the organization begins to

16 regulatory order. 17 DR. LIPOTI: Thank you for saying that, because that is absolutely true. The failure reports was another metric that was 19 20 mentioned and by the time something gets to be a failure, it 21 should have been seen beforehand. I think very important is the compilation of 2.2 23 lessons learned documents, and on page 6 of your plan you 24 have got plant-specific licensing reviews, and you have a list of different safety evaluations that you are going to 2.5 issue, and that is good, but I think what is more important is to issue the lessons learned document so that future Staff reviews can be informed by what you learned here, and that lessons learned document wasn't anywhere in the plan. 4 CHAIRMAN JACKSON: Thank you. That's a good idea. 5 Commissioner Merrifield. COMMISSIONER MERRIFIELD: I think we just need to be careful in terms of looking at metrics. I think they do 8 need to be focused more beyond simply specific measures. 10 The concern you get into, and it's standard 11 option, do you judge the safety, public safety, by the number of criminals you have in jail or by the number of 12 assaults you have on the street? And depending upon what 13 14 you look at you get a different indicator. I think we would all agree that having no one in jail and a safe society is the best outcome, so I think we 16 17 just have to be very careful in terms of just going down the 18 road of picking specific criteria and measuring that. I 19 think it's got to be more uniform. 20 It does unfortunately mean a degree of 21 subjectivity but I think that is something we are all going 22 to have to accept. 23 CHAIRMAN JACKSON: I think I agree with you, but 24 that is what happens if the metrics focus on outputs and not on outcomes --25 COMMISSIONER MERRIFIELD: That's right. 2 CHAIRMAN JACKSON: -- and so one has to be clear on what the desired outcome is and then the metrics fall 3 into line. 5 Let me move along. Let me throw another kind of tough issue onto the table, because there has been a lot of talk about moving to risk-informed performance-based 8 regulation. That's been something I have been a proponent of since I got here, but you know, as we become more risk-informed, we might, just might identify areas where 10 additional -- additional -- regulatory controls may need to 11 be applied, due to pre-existing but previously-unidentified 12 risk contributors. 13 14 Where do we come out on that? There has been a 15 lot of discussion of burden relief, but what you hear me talk about is necessary burden, and so I am interested in 16 17 are we really talking that it cuts both ways or is it 18 risk-informed regulation just for burden relief? Mr. Ray? MR. RAY: Chairman Jackson, it seems to me that 19 20 when we talk about risk-informed as if it was some optional 21 thing that might or might not seek, we surely don't want to be risk-uninformed in what we do either. 22 23 I just don't see what the viable alternative is to 24 trying, and I think the most ardent proponent of maintaining high safety margins ought to be interested in being 2.5

are overlying metrics that have to be applied in terms of a

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risk-informed, and I will use the example of a consequence
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     that -- I have never appealed to risk information methods as
      a way of removing burden. I know some have.
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               To me it's simply the right thing for us to do.
4
      and for instance you expressed the emergency diesel
     generator as a relaxation of allowed outage time. I don't
 6
     see it that way. I see --
               CHAIRMAN JACKSON: Actually, you should read my
9
      INPO speech. It clarifies it.
1.0
              MR. RAY: Okay.
11
              [Laughter.]
              CHAIRMAN JACKSON: Just read the whole speech.
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               MR. RAY: I try to read all of your speeches, but
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14
      I haven't retained that one, but anyway --
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               [Laughter.]
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               17
     in my mind is to move -- I mean these are big, complex
18
     machines.
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               They require maintenance. The idea is to move it
20
      to a time when it is less risky to do. It turns out that
     that is when the plant is at power, not when the plant is
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22
     shut down.
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              Now that to my way of thinking is a good model for
      what it is we are trying to achieve here.
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              I would say in the area of fire protection is
     probably an area in which we have gotten some insights.
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               I don't know if they are revelations or not, but
      anyway, have recognized that some see a risk-informed
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 4
      process as a way of gaining relief in fire protection. I
      understand that, but it is also true that risk insights
      reveal weaknesses and problems in the plant design
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      potentially that we ought to try and recognize, so I guess I
      am an ardent proponent with others here, I know, but not
     because I think it provides an opportunity for burden relief
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     but because I just think that continuing to be
      risk-uninformed or not seeking to be risk-informed, if that
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      is a better way of expressing it, is just not the right
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13
     thing to do.
             CHAIRMAN JACKSON: Okay. I am going to go Mr.
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15
     Colvin, Dr. Remick, and then Mr. McNeill.
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               MR. COLVIN: Chairman, and following up on Harold
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      Ray's comments, I agree with Harold fully on this. I think
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      if you just take a step backwards, we have got an industry
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     that is about 40 years old with a tremendous amount of
20
     operating experience. When we started the design and
     developed this technology, we really did not have that
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22
     operating experience. Today we do, and if you take the
23
      example that I used in risk-informed inservice inspection,
      we have done over 20,000 inspections in there, and we have
2.4
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     found almost no problems identified through that process.
               We have a base on which to make a rational
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      decision that is in fact risk-informed, and I think in that
2
      context that is -- that is really the approach that we are
 4
      trying to do.
              If you -- it has to be unforgiving in both
     directions I think it's clear. We cannot expect that you go
     in one way. It's a check-valve. We have to look at what
      makes the most sense, and so our approach -- you take the
     maintenance rule and the guideline that Corbin McNeill
10
     talked about that. That guideline in fact was developed
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with that in mind, that you had to conduct this analysis and

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develop your system structures and components and analyze
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      those with risk insights, not necessarily some computer
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      model with some exotic factors and features but in fact
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      bringing to bear the experience that you have to do that, so
      the answer to your question from my perspective is
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17
      absolutely yes, it has to go both ways.
               CHAIRMAN JACKSON: Dr. Remick.
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               DR. REMICK: I fully agree. I think based on risk
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      information, it cuts both ways without question, and I can't
21
      imagine that if the agency finds that through that
2.2
      information there is a need for modifying the regulations to
23
      address the increased risk that is known, if that is clearly
24
      made known to licensees I just can't imagine that it would
      not be accepted, and especially if the backfit rule is
25
 1
      properly applied and the agency doesn't use the approach
 2
      "We're from Government and we are going to safe you averted
      onsite costs as part of our cost benefit analysis" and
      justifying that on a cost benefit basis, I just can't
      imagine people not accepting it if you convince them that
      there is a risk that has not been addressed in the past and
      therefore the regulation must be modified to address that.
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               It definitely has to cut both ways.
               CHAIRMAN JACKSON: Mr. McNeill.
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               MR. McNEILL: I want to speak for myself and PECO
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      Energy, not for the rest of the industry here.
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               I have heard you ask this question several times
13
      and I will tell you we are very willing to accept both sides
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      of this equation. Now I say that because it's the right
      thing to do and I am going to summarize here a little bit.
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               It is the right thing to do. You can't ignore it,
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      as Harold has indicated.
18
               But secondly, I say that with a high degree of
     confidence based on 36 years of personal experience that we
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20
      are relatively mature technology. I mean this is -- we have
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      been around for, you know, close to 40 years, and I don't
     think we are going to find -- on the equation we are going
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      to find things where we have over-imposed things where they
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24
      are not risk-significant as opposed to finding things where
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      we have missed risk significance, and so that the burden is
      most likely going to be lightened or focused on risk, higher
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 2
      risk issues, and still come out better in the equation.
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               CHAIRMAN JACKSON: Mr. Lochbaum and then Mr. Nye.
               MR. LOCHBAUM: We have severe reservations about
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 5
      the progress being made in risk-informed regulation. We
      think risk information has valuable applications but it is
      not a universal thing that it seems.
               We are somewhat concerned in going to a lot of
      these workshops and meetings that it seems to be an implicit
      component of every action that is taken -- enforcement,
10
11
      inspection, everything.
12
               There are certain applications where it works and
      certain applications it doesn't work.
13
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               CHAIRMAN JACKSON: Can you be explicit?
               MR. LOCHBAUM: It shouldn't be in enforcement at
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16
      all. Once you determine severity, that's it. There
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      shouldn't be use of green, yellow or anybody's scheme. An
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      offense is a certain offense and that carries with it a
      certain sanction no matter who does it, no matter under what
19
20
      conditions, so we think other risk information should be
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      totally eliminated from that picture altogether.
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               CHAIRMAN JACKSON: Should the severity be linked
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to risk?
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              MR. LOCHBAUM: It should be from the standpoint
24
      that that determines the Severity 1, 2 or 3 level. That
25
     should be based on risk. We feel in the current program one
1
     of the components of risk is time, and that is totally left
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     out of the NRC's current enforcement program. A thing that
 4
      is -- an offending condition that lasts for two decades
      carries the same weight as something that lasts 12 hours or
 6
      in some cases less weight than something that lasts 12
7
     hours, and that's completely throwing risk out of the
     picture altogether in an inappropriate way.
              As far as cutting both ways, one of the concerns
10
     we have is that a lot of this design basis information that
11
      Jim referred to earlier where plants have operated for years
     with safety systems that wouldn't have worked -- Haddam
12
13
     Neck, Big Rock Point, D.C. Cook. There is a long list. The
14
     risk is that -- probabilistic risk assessment for those
15
     plants showed that these systems were highly reliable,
16
      changes of failure were one in 10,000 or something like
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               The one at Haddam Neck wouldn't have worked its
18
19
      entire 28-year life. That is reality, but that is not
20
     reflected in the PRAs, so unless the PRAs are based on
      reality, we should not be using those as a source for making
21
      risk-informed regulation.
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               CHAIRMAN JACKSON: I am going to come back because
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     I was going to segue into, you know, where do we need to be
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     on design basis issues, because to me that gets to the heart
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     of some of the longest shutdowns of plants, the most
      expensive, and it also gets to the issue of why are we
     surprised and it gets to a number of your issues, Mr.
 3
      Lochbaum, but let me hear from Mr. Nye first and then I
      would like for us to take up this question of where we need
      to be on design basis.
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              MR. NYE: Chairman Jackson, I'll be brief. I find
     this whole element of the conversation the dialogue a little
     bit surprising. And let me just express from a personal
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10
      standpoint where I am coming from. I feel a great
11
      responsibility as the licensee for the safe operation of the
     plant. I assumed everybody thought that when we came here
12
13
      this morning.
14
               And the idea that somehow I want to participate in
15
     anything that relieves the burden because it's inconvenient
16
     for me with respect to my responsibilities as licensee is
17
     simply not the case.
              My reputation and the reputation of my company to
18
19
      some extent evolves around how well we operate this plant,
20
     how we are perceived as operating this plant. And any
21
     significant violation that reflects on the way we operate
22
     this plant has financial and other implications which I'm
23
      simply not willing to accept.
             So I'm here to participate in a process that
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     hopefully makes the NRC a better agency, that makes this
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     industry a better industry, and that, in fact, we eliminate
     what from a management perspective I would call form over
2
     substance.
3
               My experience is not as long as many at this
      table, but it's long enough. And I will tell you that as we
      examine the discussion about Level 4 violations, they're not
6
      all the same, and that gets back to the comment you made,
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Chairman, about the consistency and the objectivity and the

10 And what I would expect is that we will arrive at 11 an understanding of what is most likely to deliver a set of 12 safe systems in this industry which serves everyone's best interests. So it's more a question of not resorting to form 13 14 which sometimes we do and the media will or the outsiders 15 will. They're count numbers. Now whether those numbers are 16 relevant or not -- and I get back to what Mr. Riccio said, 17 if the numbers change over time, then none of us can view 18 those as valid from a statistical standpoint. 19 I think from the point of view of a licensee, I've 20 always felt that the harshest thing was to be unjustly 21 accused. And when you don't have a predictable, thoughtful, objective set of standards against which people can be 22 judged, then you sometimes are unjustly accused as not being 23 a good operator and not taking care of the public safety and 24 25 health and so forth. 1 So from my standpoint, what I would hope is that someday when someone is justly accused, they would stand 2 responsible for their failings, and those number of times 3 when you're unjustly accused will be eliminated. 4 5 CHAIRMAN JACKSON: Very good. Thank you. Let me segue into the design basis discussion in the following way. You know, risk informed regulation, to the extent that it becomes heavily predicated on PRAs, implies a valid PRA. That is, that the validity of plant-specific PRAs becomes much more important. 10 11 And, therefore, the PRA in the end in modeling 12 accident sequences is modeling the plant. And there are 13 assumptions built in about the reliability of certain key 14 systems, structures and components, you know, the frequency 15 with which they will work or not work. But the actual frequency becomes very plant 16 17 specific. And so that is to be somewhat of a good segue 18 into some of the design basis issues, although PRAs don't model everything in that regard. So keeping in mind that 19 there are active systems that may get modeled in PRAs and 20 21 there are systems that are not as explicitly modeled but not 22 necessarily strictly focusing it on PRAs, where do we need 23 to be on the design basis issues because those are the kinds 24 of issues that in the end seem to be the hardest nut to crack in terms of the regulator missing them, but they also 25 1 seem to be the most expensive to licensees if their plants 2 are shut down because of them, whether they're voluntary or not, through formal mechanisms or not. Can you give us some insights in that regard, Mr. 4 5 MR. RAY: Not to be pedantic, but let me begin with an observation that Mr. Ricco talked about licensing 8 basis. Mr. Lochbaum talked about design basis. You have now referred to design basis. These are not the same thing. But maybe for the purpose of this discussion, they're close 10 11 enough that we don't need to make the distinction. But 12 sometimes it is important. And in my written comments, I've 13 suggested that the Commission perhaps needs to address this 14 at a policy level because it's linked with other things. 15 CHAIRMAN JACKSON: Absolutely. MR. RAY: Like the FSAR. I don't see how any of 16 17 us would be comfortable suggesting that we don't have to 18 have integrity of compliance with the design basis or the 19 licensing basis, either one. I'm going to try and not

9

predictability.

discriminate between those things at this point. But the 20 plant is licensed to its licensing basis. 21 And in terms of what it is the Commission has 22 23 encountered in this area, I would suggest this only, and I think it goes to the issue of expectations which you alluded 24 to in talking about metrics of Commission performance. 25 1 We haven't had consistent and clear understanding and expectations among all the stakeholders as to what it is constitutes the Commission policy in this area. Now I say 3 4 that recognizing that there'd be a lot of disagreement about that, I'm sure, by various parties. But the major problems that we have experienced -- not all of them, perhaps, but 6 some of them at least, I believe have arisen in large part due to differing expectations and understandings as to what 9 was required. 10 Now there are always cases in which in fact 11 everybody's in agreement on what the rules are, and we just 12 failed to comply with the rules. But the biggest problems 13 have, I think, arisen from circumstances in which there are over a considerable period of time a differing belief and 14 understanding as to what the rules were relative to --15 16 CHAIRMAN JACKSON: For the purposes of our 17 discussion, could you give more specificity with perhaps an 18 example? 19 MR. RAY: Perhaps I can. Perhaps --20 CHAIRMAN JACKSON: Hello, Commissioner Diaz. MR. RAY: Dr. Travers would be far more qualified 21 22 on this than me. But in any event, let's go to the example 23 of where a significant problem was identified with -- in 24 fact. I think it was someone within the licensee 25 organization raised the issue they were not -- the plant was 1 not being operated in accordance with FSAR -- with what was stated in the FSAR. 2 Not the tech specs. This, for example, is a 3 4 distinction that I think I'm trying to illustrate here in which we, the licensees -- at least I personally -- over a long period of time viewed the tech specs as sacro sanc, as 6 7 hallowed ground, as something not ever to be violated without terrible things happening. The content of the FSAR was viewed differently, 10 and I spent a lot of my life writing stuff and putting it in 11 the FSAR and dealing with people here at the agency over 12 what was in the FSAR. 13 I think we're coming to a different understanding 14 about that now, which is not necessarily wrong, but it needs to be consistent and made clear. So without digressing any 15 16 further than I already have, Chairman, I would say that I 17 think that where we need to go is to come together on an understanding that in the first instance has to stem from 18 19 policy decisions that you here at the Commission endorse or 20 make yourself relative to what these requirements are. You have been engaged, I think, in the past in 21 22 debates over definition of the licensing basis and to what 23 extent it should be elevated in terms of the importance that 2.4 it plays in the overall regulatory process, and I understand that. You and I have talked about that before. 25 1 Design basis is one of the action items in this

Design basis is one of the action items in this
thing here which is terribly important. It runs to other
issues as well. And, again, I apologize for wondering here
a little bit in my comments.

But I just believe that the answer to your

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question is that the Commission needs to set the definition
     of design and licensing basis as important policy objectives
      and to work through to a resolution of that which all of us
      can understand and abide by because there's no way of
      concluding that it isn't important in my judgment.
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11
               CHAIRMAN JACKSON: Thank you.
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               MR. MCNEILL: Madam Chairman?
               CHAIRMAN JACKSON: I'll just go around the table,
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14
     Mr. McNeill.
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               MR. MCNEILL: I would only add one other thing,
     Madam Chairman, and that is I think you need to be very
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17
     careful here. Make sure that you take into consideration
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     the regulations that were in effect at the time of the
     licensing of the facility.
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               Of all of the issues which I think would cause
21
      great turmoil in this industry would be to go and try and
22
     revise those to some standard and then tell everybody to
23
     come into compliance with that standard.
24
               CHAIRMAN JACKSON: Let me ask you for specific --
               MR. MCNEILL: It would -- I mean --
25
               CHAIRMAN JACKSON: Right. And I understand what
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     you're saying. And let me ask you a specific question
     relative to that.
               You know, the Commission has issued guidance
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      relative to the updating of the FSAR and "risk informed."
      Is there any problem with that?
               MR. MCNEILL: I'm not knowledgeable enough to
8
      speak to that personally.
              CHAIRMAN JACKSON: Okay. Let me go around the
10
     table here. Commissioner Merrifield?
11
               COMMISSIONER MERRIFIELD: I just want to go back
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     to a comment that Mr. Ray made because I think there's
13
     something interesting here.
              Part of it goes to the design basis and what
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15
     you're using as a baseline. It seems to me the other
     problem is we move forward, and we change the way we're
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17
      doing things.
18
               One of the key issues beyond making sure we have
     the rules straight is implementation. It has always been a
19
20
     big concern to me that the way in which we apply that set of
21
     rules needs to be -- there needs to be some consistency.
22
              Now Mr. McNeill has sort of put a little bit of a
23
      spin on that. But I think we need to think a little bit in
24
      the longer term in terms of training. To the extent we are
     changing the way we're doing business, we need to make sure
2.5
      that our folks in the field are sufficiently trained so that
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      we're treating all of the plant operators equally, and
      there's not a degree of inconsistency in the way we're
      applying that. I think that's something we need to think
4
5
      about as well.
              CHAIRMAN JACKSON: Thank you. I think Mr. Colvin
      indicated he wanted to make a comment, and then Commissioner
8
     McGaffigan.
               \ensuremath{\mathsf{MR}}\xspace . CoLVIN: Chairman, I guess first of all on
     design basis. I had a couple comments. First is this is not
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11
     a new issue. As the historian of the meeting, as you
12
     appropriately deemed me earlier, as NUMARC, we developed
      with the NRC Staff review and approval a design basis
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14
     reconstitution guideline which in fact recognized the
15
      problem that there would be design documentation that was
      not available, had not been ever created, might be missing
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and so on, and in fact allocated that within the context of risk as it tied to both core damage frequency and public health and safety.

So you made a decision -- I mean, when would I have to develop or go back and recreate this design documentation. Now that was in 1989 time frame.

Unfortunately, now time has gone by, and in fact
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we don't need to go into, have now gone into look at design basis in different ways.

that effort and work which I think is very sound and fundamental, we have gone in and, for a lot of reasons which

2 basis in different ways.

3 And I guess I'd say that it is still a tremendous

4 area of uncertainty in the field. And what we have learned

5 from the reviews that have been conducted by the agency, not

6 concluding the AE inspections, is it's really in the eye of

7 the beholder, and it's changing over time. I think we need

8 to get our handle on that as to really what's important.

9 If you look at it from a risk standpoint, there re
10 very few, although there are a few, as has been pointed out,
11 situations where there is a safety risk as a result of the
12 design basis information that was missing.

It's the second point on PRA -- and I want to make sure I comment on that. We have a perception that the PRA is the end all, and clearly that's not correct. Certainly I want to make sure we don't have that perception. It is a tool --

18 CHAIRMAN JACKSON: I don't have that perception. 19 Hence, risk informed regulation.

20 MR. COLVIN: Yes, I understand, Chairman. You and
21 I have had that discussion. I just want to make sure that
22 others in the room certainly don't hold that opinion either.

23 But I think we have to look at the robustness of 24 the design. And we had a meeting with the staff recently, 25 and I know I'll get quoted. I'll quote these numbers, and 122

1 I'll be way off. But -- so give me a little leeway if you 2 would.

But, for example, if you talk about core damage 3 4 frequency and you look at the sensitivity in an assumption case to the number of unplanned SCRAMs, for example, or the diesel generator reliability, you can measure a factor of 6 core damage frequency and, really, I mean, if you look at the analysis, for example, in an emergency diesel generator 9 reliability, where you're looking at 99.7 percent 1.0 reliability factors for diesels, if you run that number down 11 to 30 percent, you really haven't increased the risk -- core damage frequency risk by more than one-tenth of the 12 13 original.

I mean, I think we have to look at how the
sensitivity of these various tools that we're using, and
where the factors apply. The same thing is true if we look
at the safety case on the loss of offsite power challenges
and the concern about electric distribution system
reliability. We'd have to have, if I ever get 35 or 40 loss
of offsite powers a year, it's a challenge to generic safety
threshold of one of the minus 5.

threshold of one of the minus 5.

So we do have a robust set of designs, and we have to use these tools. And I think we have a lot of space to explore in how we bring these tools to benefit the decision making process both for the utilities and for the NRC.

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minute to divert to something that Mr. Ray inspired me to
 5
      say, and then I will come back to your question. And
7
      although Mr. Colvin is older than I am, I also claim to be a
     historian on this matter.
8
               But the issue of the safety analysis report. As a
     licensee, I participated in the discussions, if I remember
10
11
      correctly, in the early 1960's when it was realized that
12
      safety analysis reports which at that time I remember were
13
      called hazards analysis were too diverse and so forth. They
      were not specific enough for licensing of a plant.
14
15
              So the concept of technical specifications arose.
     And I remember participating in those discussions, and the
16
      views at that time were that the technical specifications
17
      for a power plant should probably be five or six pages and,
18
19
     for an non-power reactor, maybe one or two pages, and they
      should consist only of things that were directly measurable
20
21
     or observable.
22
               But the idea was that these safety analysis report
23
     was not specific enough. And so you needed these things so
24
      licensees knew exactly what was important. And I don't if
25
      you recall, at the first stakeholders meeting, I referred
1
     kind of complaining about strict adherence to the
2
      regulations and documents never intended for that purpose.
               And when I said documents not intended for that
      purpose, I was thinking of final safety analysis reports.
4
5
     The tech specs were to be very specific where final safety
     analysis reports were not.
               Now to get to your guestion, design basis are
8
      extremely important, and design basis events. And they
      served a purpose back in the day when knowledgeable people
     really didn't have risk perspectives and so forth, so on
10
11
      their best engineering and scientific judgment came up with
12
     certain hypothetical type of accidents and situations in
      transience that they thought should be addressed.
13
               And certainly the ACRS at that time, the
15
     regulatory staff and others participated in developing those
16
     hypothetical events that I think they served a very useful
17
      purpose. But we do now have better analytical techniques,
18
     and we do have risk insights from competent PRAs which does
19
     call into question some of those design basis events.
20
              So I think with that information -- and one comes
21
     to mind is the double-ended yellow team break of the larger
2.2
      system which drives so many other things in the plant either
23
      in the design or the operational plants. So I think we
      arrived at that time that we can really go back and adjust
24
2.5
      some of those because perhaps some of the things that at
1
      that time were thought to be the most significant type of
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      events and transience we now have better insights.
               And some of those things, I think, can be revised
      and relaxed probably as a way of providing alternative
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5
      approaches. Now I like the way, although I haven't seen the
      specifics of the new source term regulation, but as a
7
      commissioner participated in the early discussions of those
8
      where people have an alternative of using another source
      term makes sense to me.
               So design basis events are extremely important.
10
11
      Design bases are extremely important. But I think we're at
12
     a point in knowledge in this industry that some of those
      things could be revised carefully.
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CHAIRMAN JACKSON: Okay.

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COMMISSION MCGAFFIGAN: If you'll allow me a

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CHAIRMAN JACKSON: Commissioner McGaffigan.
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               COMMISSIONER MCGAFFIGAN: Two points. Number one.
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      I hope one metric of success will be whether we can finally
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17
      after decades or whatever define these terms so that
18
      everybody at least acknowledges that we have common
      definitions. I think this Commission really before my time
19
      getting to it, taking on the 5059 and trying to define some
20
21
      of these issues, what has happened in the past, I think,
22
      reading the histories, not having participated in it, is the
23
      process is gone through, and at the end of the process, the
24
      industry and the staff are not in agreement.
               And it's a time bomb waiting to come off the next
25
1
      time something comes along. So I hope the metric of success
 2
      is that we do indeed get these things resolved.
               The second point I was going to make really in
 3
      response somewhat off topic to Commissioner Merrifield's, I
      think it's inevitable that we have proliferating standards.
      But we really do treat folks differently. I mean, risk
 6
      informed regulations -- some people are going to want to
      participate in it, and some aren't.
 8
               The ACRS sent us a letter recently making that
 9
10
      point. People late in their life aren't going to do license
11
      renewal, just aren't going to incur a bunch of costs for
      returns that are somewhat distant. And so there's going to
12
      be some plants that take advantage of risk informed
13
14
      regulation.
15
               The source term that rule making that Commissioner
16
      Remick just referred to, that is going to be optional. It
17
      is not mandatory. There's no bad fit issue with it. But
18
      some licensees are going to take advantage of it. Some
19
      aren't, Appendix R programs.
20
               We have a very, very complex regulatory scheme at
21
      the current time. It is very different, say, from France
22
      where there's a single company running a bunch of fairly
      uniform plants all the same type.
23
2.4
              And depending on the time they were licensed,
      depending on taking advantage of rules, Option B to Appendix
25
1
     J or not, source term or not, you have different regulatory
      schemes. And it's a massive undertaking, I mean, to
      understand who's under which scheme at the moment. And I
      think it's only going to get worse in terms of -- and,
      therefore, there's an information issue or management issue.
 6
               But the consistency, then, is consistency within
 7
      the rules that apply to that plant that were consistent, and
     maybe consistent for that group of people who were taking
      advantage of the source term, or that group of people that
 9
10
      are moving to risk-informed regulation.
11
               But we're not going to have consistency across the
12
      whole industry because it's almost impossible.
13
               COMMISSIONER MERRIFIELD: No, that's true. And I
      recognize that and the differences. I think the point I was
14
      trying to make inartfully as I did was that we should be
15
      trying to treat -- I think we need to make sure that our
16
17
      training is consistent, that what we're doing here in these
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      changes gets down to the regions, and the folks at the very
      front line -- our front line folks have a clear message from
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20
21
               And we should be treating equally situated folks
22
      equally. And where you have two different facilities of the
23
      same profile, they shouldn't -- you should try to avoid
2.4
      their having different outcomes.
               CHAIRMAN JACKSON: Mr. Lochbaum.
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1 MR. LOCHBAUM: I have hopefully three examples of 2 where we're concerned that this large database of reactor experiences not being used consistently or properly. There's no real order to these -- just the way I remember 4 5 In March of last year, the Pilgrim Plant experienced an event where some transformer oil got backed 8 up in through the duct work into the plant. It didn't catch on fire, but it could have because it was flammable. It would have wiped out both divisions of power of AC and DC. 10 11 We went and looked at the risk assessment for that 12 plant, and there was no fire risk at all for those areas because there were no combustibles in those areas. But the 13 combustibles found there were in that area through an actual 14 event, not through any weird postulated event. It actually 15 16 occurred. It's just fortunate it didn't catch on fire. So 17 that's example of what we think were risks inside were 18 somewhat not bonding. 19 The second example was D.C. Cook -- the event that 20 initially brought the plant down, not some of the events 21 that were later identified was the staff's feeling that 22 under certain situations there wasn't enough water to handle 23 post-local loads. 24 That risk or that concern is the same as it was 2.5 affecting boiling water reactors with the section strainer issues. To this day, we can't figure out why the staff 1 2 seems identical to us. 4 5 6 the problem at D.C. Cook, and the B.W. owners found the problem at their plant. That seemed to be the only 8

required D.C. Cook to be shut down for an issue that didn't require the B.W. owners to shut down their plants. The risk

The big difference seemed to be that the NRC found difference in how the NRC handled those events. And since $\ensuremath{\mathsf{I}}$ didn't write it down -- no, I didn't.

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The third event was there's some talk today about diesel generators and greater risk during shutdown as opposed to plant operation. We would agree with that. The chances of station blackout or the chances of losing normal power is greater during shutdown than it is during when the plant's up and running.

Unfortunately, I've looked at every station black out response procedure I've looked at, and I haven't looked at all of them. But I have looked at enough to see that it's somewhat consistent anyway. It only considers the event occurring from the plant running.

It talks about starting up the diesel-driven auxiliary free water pump to put water into the steam generator or something like that. But the plant is shut down, and those actions may not be the right actions. And the operators are not given the right guidance to handle the

1 event even though it's recognized that's when it's most 2 likely to occur.

So there's a disconnect between what we know to be 4 the greatest concern and the guidance we give to operators 5 on how to handle or respond to that event. So those are the areas that we feel are problematic in terms of design and risk assessment.

CHAIRMAN JACKSON: Mr. Colvin?

MR. COLVIN: Well, I was just going to comment on the loss of offsite power procedures and station blackout if 10

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just for clarification. I think that the guideline which
11
     was designed which is embraced by NRC through our regulatory
12
      guide really talks about the transition, the challenge when
13
      the plant is operating to put the plant in a safe condition
14
     because that period -- I think we need to look at the
15
16
      difference between the plant operating or the plant shut
17
     down, but more importantly, we need to look at the condition
18
      of how to get the operating plant when it has a loss of
      offsite power which means it will trip. The plant is in a
     shutdown condition and make that transition to safe
20
21
      shutdown. And that's the way the procedures are designed,
      and that's where the risk profiles were looked at.
22
               CHAIRMAN JACKSON: Mr. Ray?
23
2.4
               MR. RAY: I just wanted to intervene here in
25
      response to what Mr. Lochbaum had said, much of which I
1
     agree with. But it seems to me like it all argues in favor
      of greater use of risk insights and risk information in the
     regulation of the plants, not less.
3
               And I think most of the criticisms that are levied
      are in terms of what exists today, not necessarily what
     could exist by way of risk insight. And insofar as the
 6
     nexus that you made, Chairman Jackson, between design and
     use of risk insights, I've already acknowledged that and
     others have as well that that is very, very important.
               But these conditions that we're talking about
10
11
     would have existed whether or not we applied PRA. The
      chance that we have of finding out what's important and
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13
      going and verifying that in fact it is as it should be is
      greatly enhanced by using risk insights.
14
15
               Perhaps at Big Rock Point, had it been seen how
16
      important the section line integrity was, attention might
17
     have been drawn to that. There's no chance of that
18
     happening absent the use of risk insights.
               CHAIRMAN JACKSON: Thank you. We've been talking
19
     for a long time, and we advertised that the meeting would
20
      end at twelve o'clock. It is after twelve. But I would
21
      like to then propose the following that I'm going to offer
22
     my colleague, Commissioner Diaz, an opportunity to speak
23
2.4
      because he was -- didn't have the opportunity earlier.
              Then I'm going to suggest that we take a 15 minute
      break. What we will then do is have a greenlight session to
     see if anyone has any final comments he or she wishes to
     make. We will in fact take a few comments from the floor.
 4
     And then I will attempt to summarize, and we will close. So
      we will begin with Commissioner Diaz. We will take a
     15-minute break after that. Then we will come back, have a
 6
      greenlight session which will include comments from the
8
      floor. I will then summarize, and we will close. Okay.
9
     Mr. Diaz.
10
              COMMISSIONER DIAZ: Thank you, Madam Chairman.
11
      You know, I'm kind of dropping in and kind of not knowing
      where the lights are. But I have a reasonable idea of what
12
     has been going on. At least my staff gave me all the
13
14
      information.
15
               It seems to me like, you know, a lot of the things
16
      that we're talking really goes and zeroes in on what is the
17
     techno-legal framework in which the NRC works, and that
     isn't the obvious question. Which way do we work, which way
18
      do we want to work, and what do we do in between is not a
19
20
     minor issue.
21
              Obviously, I am fascinated by the idea of the
     design basis and risk information. I would just like to
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23
     bring a little bit of historical perspective of that. I was
24
     six years ago when I designed my first reactor, as you
25
     probably know some 40 years ago.
               And it's an interesting thing. We actually, you
1
2
      know, require to have the design basis because we needed
      something to hang our hat on. There was no other way in
     which legally we can say this is what we have to comply
5
      with, and that's the way it happened.
6
               It's not that we really knew all that much about
7
      it. But it was a good thing to do. It was a good way of
      saying here is a focal point. Here is how we're going to be
8
      guided by it. This is why this is important. And then we
      created a techno-legal framework around it.
10
               I think all we hear is that that served us well,
11
12
      but it might not serve us well in even the near future and
13
     definitely not in the long term because we know better. And
     so when we look at how do we change that techno-legal
14
15
     framework, all kinds of things become apparent. What do we
16
     use instead
17
               And I think that we can come to the conclusion
     that fundamentally the only thing that can fill the void of
18
19
     something you can hang your hat on is something that is a
     little more objective, something that has developed,
20
21
      something that has risk information in it, and something
2.2
      that ties to the legal framework.
23
               We really are at odds frequently when we want to
24
     get something done and then we cannot get it done. We want
25
     to do it. We want to do rulemaking, and then it takes us
1
      two years because the rules aren't there. Even if there is
2
      obvious benefit for health and safety, or if we want to get
      rid of one that has no obvious health and benefit, we still
      tie in. And when we look at the tie in, we'll find that it
4
5
      is the design basis or there is something that is really
     creating a no pass, you know, condition in which we can no
     longer work. I think one of the things that we need to do
      is after we get a little bit of time is look at what the
      things we have discussed, okay, and do the specifics that we
     need to do now including what do we change now and how do we
10
11
      implement it.
12
              But we need to look at the techno-legal framework
13
     and say this served us well, this doesn't serve us well.
14
      And I think that the obvious thing is that we will find out
      is that risk insights will serve us better in the new times,
15
16
      that the design basis is actually going out and it's
      becoming as obsolete as some of us become with time. I'm
17
18
     talking about myself, okay.
19
               And then the issue is how do we make this into a
      reasonable, working framework that licensees will see the
20
      advantage, the NRC will see the advantage, the public
21
22
     interest above all will be well served, okay. We will be
23
      able to do our work.
24
               This goes into, you know, simple things as license
25
      amendments. Do we need to get hearings on the license
1
      amendments to change steam generators? I mean, is that
2
     something that is really, you know, that substantial hazard,
     or is it something that in reality, you know, we have
     analyzed, we know it's going to be better, and we need to
      actually go ahead and establish a techno-legal framework
      that would allow us to make those things in a simple manner.
      If we want to take critical demonitors out, do we need to
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spend two years doing that when the Commission can decide
8
      that this has no health and benefit consequences.
9
               So in the big scene, I might suggest that once we
10
11
      go from this very important short term specifics, we need to
     look at the overall techno-legal framework in which we work.
12
      and we need to change those things that need to be changed.
13
     We need to keep and enhance those that we have. And since I
14
15
      came late, I'm going to finish with that.
               CHAIRMAN JACKSON: Thank you very much.
17
      like to say, however, that steam generator replacements have
18
      been done, if I'm not mistaken, under 5059.
               COMMISSIONER DIAZ: Some of them have been done.
19
20
     But then some of them has been challenged.
21
               CHAIRMAN JACKSON: [Laughing.]
22
               COMMISSIONER DIAZ: And the question is which
23
     ones, you know, are we going to have.
2.4
               CHAIRMAN JACKSON: We will take a 15-minute break.
25
      But let me just remind you for the greenlight session that
      there were three additional questions that went out with the
      invitations to the stakeholder meeting that I've not heard
     anvone speak to.
3
               And they are what legislative changes might be
     useful or necessary. What are the potential costs of the
     plan. And in particular, an example was, for instance, the
6
      need for higher investment in risk information
8
      infrastructure and/or potentially less forgiving regulatory
      process because of reliance on a more objective set of
9
10
     performance indicators and other measures.
11
              And then the third is wither to now. While the
12
      plan -- Mr. Colvin, I might say, did speak to the longer
13
      term. But either in response to what he said or relative to
      your own thoughts, what are your views with respect to where
14
15
     NRC should be in the longer term.
16
               So we'll take a 15-minute break, have the
      greenlight, then we will summarize. Thank you.
17
18
               [Recess.]
               CHAIRMAN JACKSON: We will now have a greenlight
19
     session meaning we're going to open the floor to any
20
21
     comments. But we will do it in a somewhat structured way.
22
     I'm going to begin to my left and just go around the table
     for any final comments that any of the participants wish to
23
24
      make, and then I will open the floor for about ten minutes
      for any commentary from the floor, and then we will close.
1
      Mr. Collins.
               MR. COLLINS: Chairman, I have just two remarks to
      add, and one is just to acknowledge two areas where the
3
 4
      staff has ongoing actions, and one is to define rather the
      design bases which is contained in the tasking memorandum.
     We're working amongst the staff for that, and NEI has a
6
      proposal also in that area. So I think stakeholders are
      involved in that process, and hopefully shortly after the
8
      first of the year we'll have a product.
9
               The other is the revised source term package which
10
11
      was proposed. The package has been completed the first part
12
      of October. That was referred to earlier as an initiative.
      Other than that, I appreciate the comments and will take
13
14
      them under advisement.
               CHAIRMAN JACKSON: Thank you. Mr. Colvin.
15
               MR. COLVIN: Chairman, you asked three questions
16
17
     at the beginning, and I'd only like to address one and make
18
     one other comment.
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With respect to legislative changes, I think we

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have already provided the Commission a list of those
21
      changes. And I would say that in areas where you may seek
22
      other legislative changes, we -- in a dialogue with the
23
      industry, with the stakeholders and others would be
      important so that we can try to provide appropriate support.
24
25
               I mean, for example, if the Sunshine Act comment
1
     that Forrest Remick made requires some change or support, I
2
      think that certainly I would encourage the Commission to
3
      seek that to improve the efficiency and the effectiveness of
4
      the agency.
5
               The one issue that we haven't covered and I don't
      want to steal Harold Ray's thunder, but I may, but he's at
6
     the end of the table. So I'll take the opportunity. And
      that's really in Harold's comments that he provided to the
9
      Commission earlier.
10
               We have a number of issues in the action plan that
11
      are being dealt with. And there are a number of policy
12
     issues that will be dealt with individually within the
     issues or may better be addressed as policy issues by the
13
      Commission and the senior staff once instead of each and
14
      every time there's an issue.
15
16
               Now I think if I would encourage the Commission to
     look at some of the policy aspects of the various pieces of
17
18
     the plan, identify those, and try to come to grips with
19
      those early, that would make the process more effective and
20
      also get out the guidance earlier.
21
               CHAIRMAN JACKSON: So an earlier more holistic
22
      approach --
23
               MR. COLVIN: A holistic review of the plan. And
24
     really the policy issues that must come before the
25
     Commission that if otherwise were not dealt with would delay
     the implementation of the plan might be an issue to look at.
1
2
               CHAIRMAN JACKSON: Thank you. Commissioner
3
      Merrifield.
               COMMISSIONER MERRIFIELD: Yeah, the only thing I
4
      want to say is right now I think this has been a wonderful
 5
      meeting, very instructive, and I think the participants
6
      should be thanked for their participation.
7
8
               CHAIRMAN JACKSON: Thank you. Dr. Remick.
               DR. REMICK: Just a closing comment. Many years
1.0
     ago when I was stressing the need to treat operations as a
11
      profession and nuclear reactor operators as a professional,
12
      somebody gave me a little card. It was entitled a
13
      professional and must be 25 or 30 words, and there have been
      times when I have mentioned that in speeches, and it always
14
15
      chokes me to read it.
16
               But the important point is I've kept that on my
17
      desk ever since that time, even during the time I was a
      commissioner, and it's still on my desk at home. And what I
18
19
     would like to see of this agency, I guess, is from top to
20
     bottom you have a set of principles of good regulation which
     developed which stimulated the initiatives by Commissioner
21
22
      Ken Rodgers, but a number of us participated in it.
23
               I think it's an excellent statement. I'd like to
24
      see the day that everyone in this agency has that on their
25
     desk. And when they're interacting with the various
     licensees and one another that they carefully read the words
1
      in that principles of good regulation. I think there's some
      very good words there to guide this agency.
3
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CHAIRMAN JACKSON: Thank you. Dr. Lipoti.

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5
               DR. LIPOTI: There were a couple of things that I
     wanted to address. First of all, I wanted to compliment you
6
      on the way that KI was handled in the paper. I think that's
      a very good process. It involves all the partners that are
8
      relevant, the states that are issuing KI like Alabama and
9
      Tennessee and Arizona, the CRCPD Committee E-6, and the FDA
10
11
     and EPA and FEMA. And I think that that might be a model
12
      for how you might involve stakeholders in specific issues
13
      where it's important.
               The second thing I'd like to mention is the use of
14
15
     performance indicators. That really is the bottom line
     here, and I'm very anxious to see what your performance
16
17
     assessment, performance indicators might be.
18
              And I understand from the work plan that the
19
      contractor is supposed to develop indicators starting in
     November of 1998, and the industry's going to propose
2.0
21
     indicators in June of 1999. And it's confusing to me about
22
     how these indicators will be integrated and which ones will
23
      actually be used.
24
               And I think that this group's comments on those
25
      indicators could be very valuable. So I was going to
1
      suggest that if you're considering these stakeholders
     meetings to be repeated that another one between, say, 3/99
     and 6/99 might be a very good time.
3
               CHAIRMAN JACKSON: I'm going to speak to that.
4
5
      Thank you
              DR. LIPOTI: Because that really is a critical
6
7
     point when comments should be received. On the three
     questions that you asked, legislative changes? I think
8
9
     there is an interesting legislative change that I would like
10
      to see, and it is to remove the 100 percent fee funded from
11
     the NRC's budget process.
12
              I think there are some NRC projects which are
      appropriately funded through a general appropriation rather
13
     than through a 100 percent fee funded. My examples are on
14
15
     the material side, but I would think if we focused on the
      reactor side that there would be additional appropriate
16
17
      things.
18
               So I would like to see that as consideration.
               MR. MCNEILL: Madam Chairman, I second that issue.
19
               CHAIRMAN JACKSON: Madam Lipoti, Monsieur McNeill,
20
21
      your colleagues said you're out of order. But I would just
22
      for the record like to because Commissioner McGaffigan's
23
     going to speak to it anyway. We have in fact those who know
24
      worked hard in that arena, and we have put a commission made
     a decision, and we put up a legislative proposal before the
1
      Congress. So we've not been asleep on this issue.
2
               And so if you all wish to help us, we're more than
3
     happy to have your help.
4
              DR. LIPOTI: That's why I wanted it on the record
5
     here.
               CHAIRMAN JACKSON: Thank you.
 6
8
               DR. LIPOTI: In terms of the cost of the plant, I
9
      can't really speak to the costs of the licensees. But I
     know that states will have costs in trying to oversee how
10
11
     the plan is working. And that's why I'm so interested in
     these performance indicators because I think that's the way
12
13
      we can tell if things are working or where we need to jump
     in and get involved.
14
15
           CHAIRMAN JACKSON: Thank you. Commissioner
      McGaffigan.
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17
               COMMISSIONER MCGAFFIGAN: I'd like to focus on the
      first of the questions -- the third on the list, but the
18
      first you mentioned. The legislative opportunity next year.
19
      One problem this agency has had historically is that it
20
21
     hasn't had a lot of attention from Congress. We now have
22
      that attention. And I think there's an opportunity to
23
      actually get some authorizing legislation and to get some
2.4
      things done and some issues resolved that are long festered.
25
               I have not seen Mr. Colvin's -- if he sent us
1
      something recently in the way of legislative proposals, I
      guess I haven't seen it. And I need to find it. Let me
2
     list what I know of it at the moment, and you can add.
3
               CHAIRMAN JACKSON: It's here.
 4
               COMMISSIONER MCGAFFIGAN: It's here? Okay.
               CHAIRMAN JACKSON: So it will come through SECY.
 6
               COMMISSIONER MCGAFFIGAN: Okav. Foreign ownership
     and control is an issue that Mr. Ray mentioned particularly.
     The fee issue is one that we've heard frequently. The
     antitrust issue which the Commission is already on record on
1.0
11
      in the context of restructuring legislation.
12
               Tax treatment of decommissioning funds is an issue
13
     I've heard about. The hearing process the Commission has
      already in an SRM said that we would like to clarify Section
14
15
     189 -- our interpretation of Section 189 allows informal
16
      hearings for license amendments. And we're currently
17
      considering things like the one place in the law that
      absolutely requires a full blown adjudicatory hearing is
18
19
      Section 193 with regard to enrichment facilities.
20
               There are other issues. High level waste is
21
     clearly an issue that clearly goes beyond this Commission.
22
      Senator Murkowski has asked GAO to comment about the
23
      adequacy of the low level waste statutes at the moment.
               In the materials area, there may well be issues --
24
25
      the definition of 11(e)(2) byproduct material comes to mind.
     But I'd encourage people -- I mean, the way Congress works,
1
      we really have to have this legislative package by early
      next year, and there may well be other things that come out
4
      of implementing the full plan. But if we can get on with
5
     having a good comprehensive legislative package that may or
      may not be endorsed by the Congress as a whole and on which
 6
      this group may or may not have unanimity -- probably won't.
      then we need to get on with it. And so I look forward to
9
      seeing what NEI has apparently just very recently sent to us
10
     and see if there's some things on the list that I haven't
      mentioned already. Is there additional things?
11
               MR. COLVIN: They are all on the list.
12
13
               COMMISSIONER MCGAFFIGAN: Okay. I was hoping
14
      there would be. And I also encourage people in the
      materials area that just as this group has been --
15
16
     legislation is not just focused on the reactor issues.
17
      There may well be long festering issues in materials space
     that CRCPD or the agreement states should be calling to our
18
19
      attention.
20
               When I came to the agency, there was great, you
21
     know, every year we'd put together our authorizing
22
     legislation. And I can tell you the degree of enthusiasm in
23
     doing that was not high because everybody knew it would not
      be read once it was received.
24
25
               And so, you know, this time I think it will be
     read. And I think there's a chance it may actually get
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the opportunity seriously. One reason nothing was enacted
3
      in the past, we didn't deal with these big issues. They
      tended to be fairly trivial things that we sent forward to
      the Congress. So, therefore, you get into a Catch-22. Why
6
      should the Congress read it when we're not sending anything
     with any umpf to it. This time we may well be, and we need
9
     to have a process to put that together where we're very open
10
      as to what we're doing.
11
               CHAIRMAN JACKSON: Thank you. Mr. Lochbaum.
12
               \ensuremath{\mathsf{MR}}\xspace. LOCHBAUM: I think the shareholders meetings
      like this are important. But I think an annual survey of
13
     shareholders that could not attend these meetings would be
14
15
     helpful to get a broader consensus or a broader perspective
16
      on some of these issues.
17
               As far as legislative changes, we can recommend
18
     two that might be on NEI's list, although I doubt it. One
19
      would be in the area of the 2.206 process. That process is
     bent --- or not bent. It's broke. And perhaps a
20
21
      legislative change to make it effective would be a useful
22
      thing at this point.
23
               The second change would be in the area of
24
     increasing the authorization for the Inspector General's
25
     Office that would allow the Office of Investigations to be
      eliminated. We would think both of those things would be
1
2
      necessary.
               CHAIRMAN JACKSON: Okav. Thank you. Mr. Nve.
3
4
               MR. NYE: Yes, thank you, Chairman. As to the
5
     three questions, I would defer to NEI's list. I've looked
 6
      at it, and it seems pretty comprehensive from my
      perspective. On the potential cost, I think we could spend
      a lot of time considering what additional costs may be
8
9
      involved. Certainly there would be some associated with
     investment in additional risk based information.
10
               It's clear to me, however, that the benefits fall
11
      outweigh the burden, and I think that relatively small cost
12
      ought not to be an impediment at all.
13
               With respect to the wither to now, the long term
14
15
      goal, it seems to me that we need to remember that this is
16
      hopefully a process and not a task, that we ought not be too
17
      quick to try to draw some loop around the conclusion.
18
               Cultural changes are difficult. They're difficult
19
      for the industry. They're difficult for the agency. And I
     think we all ought to be about it in a fashion which I sort
20
21
     of noted \operatorname{my} three hopeful objectives here -- purity of
22
     purpose, consistency in the process, and openness to all
      constituencies.
23
24
               I guess my final comment would be in the form of a
25
     question. The question ought to be are we making progress
1
      towards a strong, effective and credible regulatory
     authority that will ensure safety and a fashion that will
      permit efficiency, innovation and performance by the
3
      industry. Thank you.
 4
               CHAIRMAN JACKSON: Thank you. Dr. Rhodes.
               DR. RHODES: Well, Chairman Jackson, as you well
6
      know, the mission of the organization I represent, INPO, is
     the focus on the excellence in the day-to-day operation of
     nuclear plants, and we do not normally get involved in
      regulatory and certainly not legislative matters. So our
10
11
      comments here today have not been extensive.
12
             But I would just say we certainly will continue to
      cooperate with the NRC in certain areas where we think we
13
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enacted in some form or another. So we should really take

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can add value. Performance indicators may be one. And as a
15
     final comment, you talked about metrics measuring the
16
      success of the endeavor you're undertaking, certainly
      meetings like this -- periodic regular meetings like this
17
      are to me a very important measure of success, or you'll get
18
19
      a good indication of the feelings of the stakeholders on
20
     your success. And that may be very important to you. Thank
21
     you for asking me to be here.
22
               CHAIRMAN JACKSON: Thank you very much.
23
     Commissioner Dicus.
2.4
               COMMISSIONER DICUS: Thank you again. It's good
25
      to be back, and that includes being at a stakeholders
     meeting on Friday the 13th. But I think we've had a very
1
2
      good one.
3
               And I also agree that one of the measures of our
4
      success are the feedback we get at these stakeholder
      meetings, but also the feedback we get in between the
 5
     stakeholder meetings. And so we need to hear from all of
6
      our stakeholders along those things.
8
               One thing I do want to bring up the Commission,
9
     the policy issues that were raised by Mr. Ray. I think
1.0
      they're important, and we need to address those in a timely
11
12
               And I'd also agree with Commissioner McGaffigan
13
      that I don't think the NRC is acting with the
14
      characteristics of a bad plant, and that we are in fact
      trying to do this to appease not only stakeholders, but the
15
16
17
               I think what we have done are identifying the
18
     issues and challenges that we face, and we must address.
19
      And I think we have, as I mentioned earlier, the capability
20
      to do that effectively and with a great deal of quality as
     well.
21
22
               Certainly, at least one of those challenges is to
23
      ensure that the understanding internally with our
      stakeholders and certainly with the public on what the NRC's
24
25
      culture is. Rapidly, we fill in that blank sheet that Dr.
1
     Lipoti gave us. So I think we're well on our way to doing
2
      those sort of things, and I'm really glad to be back and to
3
      be part of the resolution.
4
               CHAIRMAN JACKSON: Thank you. Mr. McNeill.
 5
               MR. MCNEILL: Thank you, Madam Chairman. I again
     appreciate the opportunity to be back and participate for a
6
7
      second time. I'm not going to comment on the individual
      questions you have. But I would like to make one
     observation and maybe issue a longer term challenge.
9
10
               As you look through the table of contents of the
      tasking memorandum, with the exception of the first topic
11
     area on the risk informed, most of them are very focused on
12
13
     specific issues that have plagued the Commission for a
14
     number of vears.
15
               And I'm very pleased to see that there has been a
16
      lot of momentum of them. But I also would draw a conclusion
      after having been here twice that while our existing
17
     framework of regulation is not broken, it certainly may be
18
19
      outmoded to a certain extent. And that if the challenge is
20
     really to head in a different direction on a longer term
21
     basis. I think we need a comprehensive vision or framework
22
      to establish that of which risk informed regulation is one
23
24
               And that I personally criticized the NEI here for
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a number of years of telling you all the things they don't
25
      like but never telling you what is the appropriate framework
      in a mature industry now. I see that NEI is in fact, as you
      saw from Mr Colvin's recent outline the number of steps
 3
      that I think are also parts of that advanced framework. And
      I would suggest that sometime maybe in the second quarter of
      next year because that's a point in which I think you're by
      a lot of the activities in here to begin to consider how to
      develop a framework, a different framework, if that's
8
9
      appropriate, solicit input in meetings such as this, decide
      on that which is appropriate, lay out a plan, a long term
10
11
     plan of five plus years and begin to chip away at that.
12
               I think that will benefit all of the stakeholders,
13
      that they'll get a chance to really summarize what their
      issues are and be forced to think about what is the
14
15
      appropriate thing and make those. Thank you.
16
               CHAIRMAN JACKSON: Thank you. Dr. Travers.
17
               DR. TRAVERS: Thank you, Chairman. In my view,
18
      this has been an excellent session even though I haven't
     heard any suggestions for things we ought not to be
19
      including on our list. In that regard, I would make note of
20
21
      the fact that this is a challenging time for the NRC staff
22
     and certainly the management team. We are addressing a
     number of issues. We've identified those in our tasking
23
      memo response, and I'm glad that Commissioner McGaffigan
24
25
     pointed out a number of other issues really that are ongoing
                                                          151
1
      and of import as we proceed.
               I'm also glad to see Mr. Colvin's suggestion about
3
      the need to identify near term, intermediate and longer
 4
      range goals. Certainly from our perspective, we need to
      make sure that what we are doing is done well, and that we
5
 6
     do it in a way that doesn't necessitate a significant
      visiting once we've made the progress that we can.
               We have many milestones and deliverables due
8
      within the next several months. So in this period of time
9
      in particular, I think we are going to have the advantage
10
      and continuing advantage of interactions with our
11
12
      stakeholders. This we view again as a fundamental element
13
      in our thinking, in our planning. So we certainly
14
     appreciate this meeting, and we look forward to those
15
      somewhat more detailed stakeholder meetings to address the
16
      specifics of those issues at these meetings. Thank you.
               CHAIRMAN JACKSON: Thank you. Commissioner Diaz.
17
18
               COMMISSIONER DIAZ: Thank you, Madam Chairman. I
19
      think that most of my thunder somebody has already taken.
     But I'll go ahead and make a strike anyhow.
20
21
               Obviously, we must realize that progress has been
22
     made, that just the fact that we are here is a very good
23
     sign. And in fact, things have been happening in the time
24
      that we first met now is also a very good indication.
               I've been traveling around a little bit, and all I
25
                                                          152
      can hear is that things are happening. That is very good.
      I mean, that's something that we should not lose sight of.
3
      I think it's important to continue the change we're doing
 4
               I think it has to be open. I think that what I
5
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I think it has to be open. I think that what I
see more and more is that our stakeholders, both industries
and licensees and all the stakeholders are now coming and
saying we can actually provide information. We can access
the NRC. We are going to be listened. And I think the
ability to be listened to is a fundamental change that has

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I think, like everybody said, there is a lot of
12
      specific issues at hand. I think it's critical that we
13
      concentrate in resolving those issues and avoid
14
      proliferation during the next six months. We need to be
15
16
      able to get those things that we said we're going to do and
17
18
               However, I caution you that -- and this is an old
19
      thing of mine that, you know, the enemy of the good is the
20
     better, and that the enemy of the better is the best. And
21
     that we need to be able to come up with solutions that might
22
     not be the most ideal or comprehensive but will get us to
23
      the next stage.
               And in getting to the next stage, I think that I'm
24
25
      going to borrow a little bit from the principles of
     regulation. The principles are great. What we need to do
1
      is actually focus on two areas. What are the obstacles to
2
     having those principles being achieved, and can those
3
      obstacles be removed, and can they be removed timely.
4
               And second, what are the enabling factors that
     will allow us to do the things that we want to do. Look at
6
     the things that are fundamental to get things done. And I
     think what I would personally like to hear in the next few
     months when we resolve these things is an answer to those
10
      two things. Thank you.
11
               CHAIRMAN JACKSON: Thank you. Mr. Ray.
12
               MR. RAY: Thank you, Chairman Jackson. Let me
13
      pick up on the first thing that Commissioner Diaz just said.
14
     I've been remiss in not acknowledging, as others have had
15
     the grace to do, the many positive things that are going on,
16
     and probably it's the result of my long experience, I guess,
17
      in focusing on the opportunities for improvement at the
      expense of acknowledging what's positive going on. I don't
18
19
      want to do that.
20
              And I really meant what I said about not
21
      complaining about things as they are, and particularly I
22
      want to underscore that it's not complaining with regard to
23
      the motives or the ability which has been commented on here
24
      a number of times of the agency and its staff which is
25
      outstanding.
1
               Finally, I guess I would say that as regards the
2
      future stakeholder meetings, I too think that they are
3
     important. And I just would suggest maybe as inferred by
 4
     something Dr. Travers just said that as helpful as the five
      questions were for this stakeholders meeting, maybe
      something even more narrow would be fruitful next time to
 6
      explore within some bounds one or more of these policy
      issues that there seems to be agreement that it would be
      helpful to grapple with.
9
10
               CHAIRMAN JACKSON: Very good. Thank you. Mr.
11
               MR. RICCIO: Well, I'll try to be as close as
12
13
      succinctly as I opened it. First I want to acknowledge the
14
      fact that I realize there are very good individuals in this
      agency. We're trying to do a good regulatory job.
15
16
              I had to confront this issue a while ago after
17
     we'd done our Lemons reports, and we were able, by using
     your information and your data, to determine that Millstone
18
19
     and Salem were in trouble.
20
               Now to me, I don't understand why it was that if
21
     we could figure it out using your data, you couldn't figure
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happened. I think one that we should keep.

11

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22
      it using your own data which brings me back to supporting
     Dr. Lipoti's emphasis upon performance assessment and
23
      performance indicators.
24
25
               I realize that in this agency you start out as a
 1
      regulatory agency. But as you move up the ladder, it
     becomes very much a political agency as well. And at a
      certain level, the decisions stop being regulatory decisions
 3
      and are political decisions.
 5
               And I think I'd be remiss not to really recognize
 6
      that we're here today because of politics and because of the
      industry's ability to influence the Congress and have them
      put pressure on the manner that this agency is able to use
 8
 9
      in regulating this industry.
10
               The reason they're doing that is because nearly
11
     half of the reactors in this country are no longer
12
      competitive. To answer some of your more direct questions,
13
      I do believe there's a need for legislation to address the
14
     2.206 issue. Almost a decade ago, we participated in
15
      hearings on 2.206, and very little has changed.
16
               I would also echo David's assessment that OI needs
17
      to be done away with and move those resources over into the
     Inspector General's Office. That being said, it's been very
18
19
     much a pleasure to participate on this panel and to be
      considered, in my opinion, my opinion being considered with
20
21
      such esteemed individuals.
22
               CHAIRMAN JACKSON: Thank you very much. In
      closing, let me thank -- well, I guess I didn't do what I
23
24
      said I was going to do, and that is to open it to the floor.
25
      Are there any comments anyone wishes to make. Please.
      Please go to one of the microphones and, if you don't mind,
 2
      identifying yourself.
 3
               MS. KRUSLICKY: Madam Chairman, members of the
      Commission, I'm Mary Ann Kruslicky. I'm an assistant
 4
     director with the Resources Community and Economic
 5
 6
      Development Division through the General Accounting Office.
               We were very pleased to be invited to participate
      today. And when we sent our regrets that we could not
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 9
      participate, we did ask to be considered for in the future.
10
      So I do not want to leave the impression that GAO did not
11
      want to participate today.
12
              The reason we declined the invitation that was
13
      extended to us is because we're in the middle of a review
      that in fact is covering a lot of the issues that were
14
15
      discussed here today.
16
              It is GAO's policy not to make a public
     presentation until we have a GAO position about that
17
18
      position. And we have not done that yet because we have not
19
      completed our work.
20
              But we would like you to keep us in mind for any
21
      subsequent stakeholders meeting that you may have. Thank
22
              CHAIRMAN JACKSON: Thank you. Are there other
2.3
24
      comments? Please.
               MR. PIETRANGELO: Tony Pietrangelo, NEI. As
      someone who deals very frequently with the staff and has
 1
     complained about maybe trying to get some office space over
      here lately, I just want to give --
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               CHAIRMAN JACKSON: Not going to happen.
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               (Laughter)
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               MR. PIETRANGELO: I'd just like to give the
      Commissioner some feedback about the interactions we've had
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with the staff over the past several months. And it's like
     night and day, and I think picking on what Commissioner
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      McGaffigan said, the communications process is so essential
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      to making the entire process better and more responsive.
      And from the senior management on down, we've worked with
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13
      people in the Office of Research, AEOD, NRR, OGC. To a
14
     person, we found their conduct to be very professional and
15
      constructive in trying to solve and resolve a lot of the
16
      problems and issues that are in the tasking memorandum. So
17
      for us, we see this as just tremendous improvement in terms
18
     of the atmosphere in which we try to interact with all the
19
      stakeholders and the agency.
20
             I just wanted to give the Commission that
21
     feedback.
               CHAIRMAN JACKSON: Thank you very much. Anyone
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23
      else?
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               MR. CANNON: I'm Jim Cannon. I'm from Senator
      Domenici's office, legislative fellow. I would like to
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     respectfully disagree with those people that say that all
1
      these activities are just in response to the Senate.
               I've spoken with, I don't know, it's got to be on
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4
     the order of 200 people in the agency. I'm very impressed.
     The best part of all is that they say they appreciate the
      interest of the Congress. They appreciate the chance to
     talk to us, and that they feel it's been long overdue. And
      for too long, there wasn't any interest, and that doesn't do
      the NRC any good. So I don't think the tasking memo -- I
10
      think it's great. I don't think it's just in response to us
11
     because a lot of the activities clearly did not start just
12
     from the summer months. And I've been meeting with
13
      licensing people, assessment people. I've attended stuff
14
     with NEI, and I follow what was said that there's a lot of
      interest, a lot of dedication and such a pronounced interest
15
     by individuals at the lower levels which is really where it
16
17
     counts to make changes and to improve the process and the
     metrics. Thank you, Chairman.
18
               CHAIRMAN JACKSON: Thank you. Anyone else?
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               MR. MAINGI: I'm Stan Maingi from the Commonwealth
21
      of Pennsylvania, Bureau of Radiation Protection. It is a
22
      great pleasure to see this meeting to go in such a forum.
23
               Sometimes we used to wonder why it is taking --
     why there are not meetings. Finally, I guess you saw the
24
      wisdom and did it. And in the second meeting itself, we can
25
1
     see good exchanges and good interaction and hopefully
2
      leading to some good results.
               Actually, the adversarial things are gone, and a
 3
      cooperative mode should be the way to go. And I think that
 4
      will bring a lot of -- make the plants more safer, and the
     public will have better confidence in you.
6
7
               I think one aspect which you can emphasize is when
     you change some of the things like policy decisions to
     advertise to the public and try to educate them through your
10
     communication wheels, that is the utilities realize as well
11
     as NRC. Actually, I also want to compliment that you do
     have all the ingredients. NRC has a very competent staff,
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13
      and the utilities are committed to safe operation.
14
              The guys who are sitting at the bottom who shut
     down the plants are there in the process of finding new
15
16
     buyers to take over the plants so that we can run them more
17
      efficiently for them. And I think in this environment, the
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culture is such that it will be conducive to have safe

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19 operations if both of you join together and pull your resources to make the plants more safe. 20 21 The only thing we want is that when you have these 22 meetings, the self-assessment parameters that are developed 23 would like to be the states as interested parties would like to be part of that when those meetings take place, and the 24 process of validation of those assessment, that is, those 25 indicators when those are done, we would like to be a part of it. Thank you. 3 CHAIRMAN JACKSON: Thank you very much. Any other comments? Well -- yes, please. 4 5 COMMISSIONER MCGAFFIGAN: Could I perhaps make one 6 brief comment. The reference to communication. I think one thing I get complimented on a lot and didn't come up today is our home page. I mean, if you want to know what this 8 9 agency is about, that there's a vast amount of information 10 that we are trying to put out including papers oftentimes 11 that we're not yet voting on. The West Valley paper I 12 mentioned earlier that we put out yesterday. So there's 13 lots of opportunity to engage this agency, and the staff just does an outstanding job of putting information out that 14 15 I hope everybody utilizes. 16 I mean, sometimes I'm disappointed that the information's been out for some time, and it's news to 17 18 19 CHAIRMAN JACKSON: Absolutely. Thank you. Well, let me in closing thank each of you and all of you for your 20 21 participation today, for your comments and insights. I was 22 impressed actually. 23 This is a time of fundamental change for the NRC. 24 I believe that change is necessary and healthy for any 25 organization. And to the extent and to a great extent, you have helped us to identify areas for NRC improvement. You 1 2 have our gratitude. And while the Commission intends to take the 3 actions we can to address all stakeholders' concerns, I ask 4 and I think the comments today reflect that that you 5 6 understand that we are first and foremost a health and safety regulator. It is our intention to take those actions that are required and necessary and, yes, no more than is 8 9 necessary, to satisfy our legislative mandate. I think as you've heard, change must be managed. 11 They're going to take on change to the extent that it can be 12 absorbed, and inculcated by all of us, by the staff in 13 particular, but in a way that doesn't break them or break their spirit because we do have an excellent staff, and we 14 15 don't have a regulatory program without them. 16 I believe the Commission's in agreement with many 17 of the statements made today out of which I have distilled 18 the following. This is not meant to be comprehensive, but a 19 distillation.

distillation.

We further identified the need for further clarification of definitions and/or the dissemination of old definitions in ways that are consistently implemented. We talked about the importance of a plant assessment process that is based on objective performance indicators. That was

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1 An enforcement process that does not unjustly
2 accuse coupled with a regulatory process that justly acts
3 when called for. An NRC corrective action process that
4 works effectively over time for us, that deals not only with

reinforced, and with appropriate inspection input.

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the plan in question for all aspects of our regulatory
6
     program.
               In addition, we've talked about and reinforced the
      need for a timely and appropriate resolution of issues,
     whether it has to do with endorsement or non-endorsement of
9
10
      guidance that has been around for a long time as well as one
11
      I threw in -- generic safety issues. Resolution, DPOs and
     DPVs, 2.206 and other even higher level policy issues.
12
13
               We talked about the need for clear metrics,
14
     understanding that they can be qualitative as well as
15
      quantitative, that survey instruments properly structured
      may have a role, that scope, independence and a public
16
17
      airing of metrics are important considerations.
               And that compilation of lessons learned through
18
      this and propagation into the improvements of our regulatory
19
20
      process is important.
21
               With regard to stakeholders. I think the point has
     been made of the need for continued and constant
22
23
     communication. I think the case has also been made that
      there are many stakeholders, and there are stakeholders
24
     beyond our licensees. I think there was a strong statement
25
1
     from a number of quarters with respect to keeping in mind
     the role of the states, but in addition -- and this is why
2
3
     they are here, the role of public interest groups as well as
 4
      others.
               The point was made that our own staff are
     important stakeholders, particularly vis-a-vis the regions.
6
7
      And this understanding that there are other stakeholders are
     not only important to the success of what we do, they are
9
     the key to our credibility.
10
               We talked about licensing and design basis issues,
11
      the need, again, for clear definition and need for a
      consistent clear understanding of what constitutes
12
13
      Commission policy in this area.
14
               With respect to the plan, I think there's a
      recognition that it does not include everything, that it
15
      needs to be a living plan, but that self-assessment needs to
16
17
      be built into that.
18
               That change management needs to occur, that
19
     discussion comes about and focuses on not only the
20
     cumbersomeness of our existing processes, but as
21
     Commissioner Diaz so eloquently explained, that we need to
22
      look at the overall technical legal framework.
23
               And that in general, we need an earlier and
2.4
     holistic approach to dealing with policy issues.
              Let me close the meeting, if you will indulge me,
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                                                          164
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      by reiterating a comment that I used at the INPO CEO
      Conference that had been made by Mr. Nye at our previous
      stakeholder meeting in July. And he said strong, effective
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 4
      and credible regulatory oversight is essential and not
      subject to compromise. But safety is not inconsistent with
      efficiency, nor is regulatory assurance inconsistent with
6
7
      innovation and flexibility.
8
               I like that. I'm plagiarizing. It is our
9
     intention to be true to this sentiment. The Commission
10
     desires to regularize these meetings, and I've talked to
11
     many of you about appropriate time frames and meeting and
     what meeting participants there should be.
12
13
                I think it is fruitful is there is a core or,
14
      shall I say, in popular parlance today, a cornerstone group
15
      to ensure continuity. But I expect that we can and we will
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vary meeting participants. As for the timing, I'm going to throw out a straw man that I'm going to try, and that is that we have perhaps four to five-month interval which would make our next meeting in the March to April time frame. So I thank you again for your participation, and in the meantime our staff will continue to work its plan as well as all of the other many things that have to be done. The Commission will continue to assess and act upon the policy issues. And I ask that we all stay energized and stay engaged. And since I won't see you -- some of you before then, I wish you an enjoyable and safe set of holidays. And if there are no further comments, we're adjourned. [Whereupon, at 1:25 p.m., the public meeting was concluded.]