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UNITED STATES NUCLEAR REGULATORY COMMISSION

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BRIEFING ON THE FUEL CYCLE OVERSIGHT

PROCESS REVISIONS

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THURSDAY

APRIL 29, 2010

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The Commission met at 9:30 a.m., the Honorable Gregory B. Jaczko,  
Chairman, presiding.

COMMISSIONERS PRESENT:

GREGORY B. JACZKO, Chairman

KRISTINE L. SVINICKI, Commissioner

GEORGE APOSTOLAKIS, Commissioner

WILLIAM D. MAGWOOD, IV, Commissioner

WILLIAM C. OSTENDORFF, Commissioner

1 ALSO PRESENT:

2 NRC Staff:

3 MARTIN VIRGILIO, Deputy Executive Director

4 for Materials Waste, Research, State, Tribal and

5 Compliance Programs

6 CATHERINE HANEY, Deputy Director, Office

7 of Nuclear Material Safety and Safeguards

8 DANIEL DORMAN, Director, Division of Fuel

9 Cycle Safety and Safeguards, NMSS

10 LUIS REYES, Regional Administrator, RII

11 JOSEPH SHEA, Director, Division of Fuel

12 Facility Inspection, RII

13

14 Stakeholders:

15 JANET SCHLUETER, Director, Fuel and

16 Materials Safety, Nuclear Energy Institute

17 MICHAEL BOREN, Regulatory Compliance

18 Manager, U.S. Enrichment Corporation

19 SCOTT MURRAY, Manager, Licensing &

20 Liabilities Nuclear, Global Nuclear Fuel

21 ROBERT LINK, Manager, Environmental,

22 Health, Safety, & Licensing, AREVA

1 JENNIFER WHEELER, Licensing and Integrated

2 Safety Analysis Manager, Nuclear Fuel Services

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4 LINDA CATALDO MODICA, Chair-Fuel Facility

5 Working Group, Sierra Club Nuclear Issues Activist

6 Team

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1 P-R-O-C-E-E-D-I-N-G-S

2 CHAIRMAN JACZKO: Good morning, everyone.

3 We have our oversight meeting this  
4 morning, or actually our meeting this morning on the  
5 oversight approach for fuel cycle facilities. And  
6 this, I would note, is the first meeting where we  
7 have our full complement of Commissioners. So we  
8 welcome Commissioner Apostolakis this morning.

9 He is no stranger to this building. And  
10 he has been with us for -- with the agency in one  
11 capacity or another for quite some time. So, we  
12 welcome him.

13 The meeting today is, as I said, to talk  
14 about the Commission's process for doing oversight  
15 of the fuel cycle facilities. And I think as I have  
16 looked back at this issue, it is clear that we have  
17 a history of starts and not a history of finishes on  
18 this issue.

19 So, hopefully today will be the start of  
20 the finish on, I think, an enhancement to our oversight  
21 process.

22 As I look broadly at the principles that I

1 think would be important in improving our oversight  
2 process for the fuel cycle facilities, we are  
3 looking ultimately at something that is predictive  
4 in nature, that provides a degree of openness and  
5 transparency, that I think begins with a fundamental  
6 baseline type of inspection, consistent inspection  
7 program for all the facilities, and then ultimately,  
8 it's just a way to ensure how we assess the  
9 significance of problems that we identify and having  
10 a very systemic way to do that and then a systematic  
11 way to take those findings and determine what action  
12 is appropriate by the agency.

13       So that seems to me the core principles  
14 that I see with this issue. And I think there's a  
15 lot more detail, certainly, that would need to be  
16 worked out and talk about timing and how we can  
17 accomplish everything we need to accomplish.

18       So I look forward to a very productive  
19 meeting today to hear about the staff's approach.  
20 Then we will hear from stakeholders who can talk to  
21 us about what they see, I think, as the challenges  
22 and the advantages of a new system. Again, trying

1 to figure on how we get to the end point.

2 The Commission has in front of it a voting  
3 matter, a paper with staff recommendation for a way  
4 to proceed. And today I think is just an  
5 opportunity to flesh out the staff's position and  
6 the other positions. And ultimately, the Commission  
7 will have an action to take to respond to that  
8 paper.

9 So, with that, I would turn to my fellow  
10 Commissioners, if they want to make comments.

11 Commissioner Svinicki.

12 COMMISSIONER SVINICKI: Thank you,  
13 Mr. Chairman.

14 As you describe, we do have a paper in  
15 front of us, but I still think that  
16 today's interaction will be very, very valuable in  
17 informing us in acting on that matter. And  
18 obviously, the paper is where we will document  
19 whatever the Commission's outcome and the  
20 instruction that will provide to the staff.

21 But there has been tremendous staff work  
22 and engagement with the industry that's already gone

1 on. I'll have some questions about some of that  
2 engagement and some of the issues that are alive.

3 I do want to note, Mr. Chairman, that we  
4 are now complete, and I welcome our new colleague.  
5 And as I prepared for today's meetings, I was  
6 thinking I know I will really benefit from his  
7 expertise on risk assessment and I think that just  
8 as a colleague, that will really inform this issue  
9 and I look forward to hearing the questions and  
10 views he will express today.

11 Thank you.

12 CHAIRMAN JACZKO: Commissioner Apostolakis?

13 COMMISSIONER APOSTOLAKIS: Thank you,  
14 Mr. Chairman and Commissioner Svinicki, for the kind  
15 words. This is the first time I am sitting on this  
16 side of the table. The view of the audience is  
17 certainly better. And, of course, my voice decided  
18 to betray me today on my first public hearing, so  
19 I'll do my best to try to be understood later.

20 CHAIRMAN JACZKO: Commissioner Magwood.

21 COMMISSIONER MAGWOOD: Thank you,  
22 Chairman.

1           Let me also add my welcome to Commissioner  
2 Apostolakis. Looking forward to working with him  
3 and learn about the dirty details of PRA from him as  
4 we go forward.

5           This is a subject I find very interesting.  
6 I started my career working in fuel cycle issues  
7 and facilities, and the breadth of issues associated  
8 with fuel cycle facilities is something that I would  
9 like to discuss with the staff as we go forward with  
10 this to see exactly how we can best put an oversight  
11 process in place that assures safety. So I have a  
12 lot of questions about this, and I look forward to  
13 it.

14          By the way, this is the first Commission  
15 meeting where I actually know most of the people at  
16 the table, so I feel like I'm beginning to get into  
17 this whole Commissioner business. So I appreciate  
18 your help in all this. Thank you.

19          CHAIRMAN JACZKO: Commissioner Ostendorff.

20          COMMISSIONER OSTENDORFF: Thank you,  
21 Mr. Chairman. I add my welcome to George here to  
22 join this group. I appreciate very much the hard

1 work that's been done by the NRC staff on this issue  
2 and also the thoughtful inputs and discussions by  
3 other stakeholders.

4 I know these are complex issues, and I  
5 have had some experience with one of a kind  
6 facilities in my time at the Department of Energy  
7 dealing with uranium, plutonium in the nuclear  
8 weapons complex, so I realize this is a very  
9 different area from that of the commercial reactor  
10 plant business.

11 So, I'm really looking forward to learning  
12 today and asking some questions. I thank you for  
13 being here.

14 CHAIRMAN JACZKO: With that, Marty, I turn  
15 it to you to begin the staff presentation.

16 MR. VIRGILIO: Thank you, Chairman.

17 Good morning, Chairman, and good morning,  
18 Commissioners. On behalf of our Office of Nuclear  
19 Material Safety and Safeguards and our Region II  
20 staff, I want to thank the Commission for providing  
21 us this opportunity today to talk to you about our  
22 vision with respect to the future of the fuel cycle

1 oversight process.

2           With me today I have our Regional  
3 Administrator, Luis Reyes from Region II and Joseph  
4 Shea. Joe is responsible for the division that has  
5 oversight of the fuel cycle facilities in Region II.

6           And on my right I have Cathy Haney, who is  
7 the Deputy Director of Office of Nuclear Material  
8 Safety and Safeguards, and Dan Dorman, who is the  
9 Division Director responsible for the fuel cycle  
10 facilities in MNSS.

11           So, with that I just want to give you a  
12 brief overview. The evolution of the fuel cycle  
13 oversight process I think has been ongoing since its  
14 creation. It was modeled after the systematic  
15 performance of licensee -- systematic assessment of  
16 licensee performance, a SALP program that we had for  
17 the reactor fleet back in the 1970's, and it has  
18 evolved since its inception. And it has evolved  
19 slowly but continuously. And that's, I think,  
20 consistent with our value for continuous improvement  
21 for all of our important processes.

22           But the staff -- while the staff has made

1 some headway in this area, I would say that it has  
2 not been much, and has not been done in a most efficient  
3 and effective way. And that is why we step back  
4 today. And, I think, we as the staff, and most of  
5 the stakeholders that we have interacted with,  
6 believe that there are better ways to move forward  
7 and make the process more risk-informed, make the  
8 process more performance-based, make the process  
9 more open and transparent, and make the process more  
10 predictable.

11       Those are some of the attributes that we  
12 see in the reactor oversight process today. And you  
13 will hear a little bit more about where we think we  
14 are today and where we think we want to be as the  
15 presentation is made to you.

16       I would like to say that the staff, and I  
17 believe that the staff has been working very closely  
18 with the industry representatives and other  
19 stakeholders all along throughout this process.  
20 We believe that the proposed schedule that we  
21 have included in the Commission paper and we have  
22 outlined for moving forward is a reasonable schedule

1 that will allow all the stakeholders to meet their  
2 other needs, and particularly what we have heard  
3 from the industry representatives with respect to  
4 the cumulative impacts of everything that we have  
5 ongoing today as initiatives.

6       And I want to say that on behalf of the  
7 staff, we are very conscious of those cumulative  
8 impacts, and we would never do anything that would  
9 distract the industry from their safety and security  
10 mission. That is critical as we have laid out the  
11 schedule that we want to make sure that we are  
12 sensitive to other activities that they have  
13 ongoing.

14       The Commission paper that, Chairman, as  
15 you mentioned, is at the heart of this briefing, and  
16 it details the history of the oversight process, the  
17 pros and cons of various alternatives we have  
18 considered, and our vision for making the process a  
19 better process.

20       We intend, through this briefing, to  
21 provide you enough detail, nothing that's not in the  
22 paper, but to give you an opportunity to ask us some

1 questions about, maybe, other issues that are on  
2 your mind to help you make your decision about this  
3 issue.

4 With that, let me turn it over to our  
5 Deputy Director of MNSS, Cathy Haney.

6 MS. HANEY: Thank you, Marty.

7 Chairman and Commissioners, what I would  
8 like to do is to elaborate a little bit on the  
9 Chairman's remarks that we have been involved  
10 with -- this has been a long process for us and we  
11 have been working on this since around 2000, for 10  
12 years -- and just to highlight an area where as  
13 Marty said, we are focused on cumulative impacts on  
14 our stakeholders as well as internal to NRC, where  
15 that has come into play in the past also.

16 My hope in doing this is to establish a  
17 framework for Joe and for Dan to go into a greater  
18 depth on the particular aspects of the plan that's  
19 in front of you.

20 As I said, for the purpose of today, what  
21 I would like to do is to go back to the year 2000.  
22 And 2000 is when we revised Part 70. It was a major

1 revision to Part 70. One of the major actions in  
2 that particular timeframe was requirement for the  
3 licensees to develop qualitative, integrated safety  
4 analyses referred to as ISAs, and then also in  
5 those to identify the items that are relied on for  
6 safety.

7       Of course, concurrent with the rule  
8 change, we are also considering any changes that are  
9 needed in our inspection programs. They tend to go  
10 hand in hand, looking at rule changes and how we  
11 would implement that particular rule.

12       As we moved forward with this focus on the  
13 inspection program, we, again, interacted with the  
14 Commission in 2001. And at that point, the  
15 Commission directed us to proceed with a proposed  
16 new fuel oversight program, however, cautioning that  
17 it should not negatively impact the implementation  
18 of the revised Part 70. So, again, a direct  
19 reference to being cognizant of any cumulative  
20 effects in our areas.

21       Moving on into 2002, we, during that  
22 timeframe, had numerous interactions with our

1 stakeholders regarding the implementation of the  
2 rule. At that time it became apparent that we  
3 probably needed to step back on revising the  
4 oversight program and focus on the implementation of  
5 the rule.

6         So, at that point the Executive Director  
7 for Operations recommended to the Commission that we  
8 to step back and focus on the implementation of the  
9 rule.

10         Over the next 3 years, although we did  
11 step back on revising the oversight program, it  
12 wasn't put completely to rest. We, as Marty  
13 indicated, are always looking for continuous  
14 improvements in any of our particular activities.  
15 But we did focus on developing the infrastructure  
16 for the review of the ISAs that were being  
17 submitted by the licensee.

18         The next milestone or touch point on the  
19 oversight program came about in 2005. And that was  
20 linked to an agency action review meeting. And in  
21 particular in that meeting, the Commission directed  
22 us to evaluate the feasibility of developing

1 objective transparent risk-informed and  
2 performance-based facility specific performance  
3 indicators for the licensees. Again, picking up on  
4 some of the words that I am sure you saw in the  
5 paper with regard to transparency, risk-informed,  
6 and objectivity.

7         We moved a little bit forward with this,  
8 however, for various reasons. We suspended that  
9 activity in the 2006 time frame. But, again,  
10 between 2006 and 2008 we were very active. We were  
11 not sitting back at MNSS resting.

12         I would break our activities during that  
13 time frame down into three specific areas: One, we  
14 were continuing to develop and improve the  
15 risk-informed tools that we had at our hands.

16         We also reviewed and completed our review  
17 and approval of the initial ISA summaries, that was  
18 done in 2008.

19         And then during that time period, we  
20 worked -- supported the IG as they did an audit of  
21 the fuel cycle regulatory framework. And one of the  
22 recommendations that came out of that audit, I would

1 like to point out now, which was that the staff  
2 fully implement a framework for fuel cycle oversight  
3 consistent with a structured process such as the  
4 reactor oversight process.

5         Staff agreed with that recommendation and  
6 moved forward into conducting that activity. And  
7 that evolved into a steering committee that was  
8 formed between -- was co-chaired with Region II and  
9 MNSS to move forward to help guide the staff on  
10 moving forward and revising the oversight program.

11         Again, numerous interactions with  
12 stakeholders during this time period we issued a  
13 Federal Register Notice soliciting comment, also  
14 held numerous meetings with them, trying to be as  
15 open and possible, as we could possibly be and to  
16 engage them in developing the process.

17         This went forward into November of 2009,  
18 when we did suspend activity on moving forward in  
19 that path forward, specifically, with regards to  
20 Commission direction and also budget limitations.

21         But we did not step back, again, and not  
22 continue forward progress as we like to make.

1 That's the time period where we developed the paper  
2 that you have in front of us, and what we were under  
3 the -- our objective at that point was to develop a  
4 plan that would have an integrated and phased  
5 approach to risk inform the fuel oversight  
6 committee. That is the paper that's been mentioned  
7 a few times this morning and that will go into  
8 greater depth on it.

9       And with that framework, hopefully that  
10 provides a basis for Joe's presentation, as well as  
11 Dan's. But before moving to them, I would like  
12 to turn it over to Luis, who will provide for you a  
13 perspective on the Region.

14       MR. REYES: Thank you, Cathy.

15       Chairman, Commissioners, good morning. I  
16 just have some brief remarks.

17       But I would like to give you a  
18 perspective. In my position as Regional  
19 Administrator in Region II, I do have the privilege  
20 on behalf of the Commission to execute all the  
21 escalated enforcement that the ladies and gentlemen  
22 in the second panel receive. So, I have the honor

1 of calling them and informing them of the agency  
2 actions in that regard.  
3 I happen to also have to do that with a  
4 third, 33 reactors in the fleet. And you cannot,  
5 being in my chair, compare the escalated enforcement,  
6 the additional inspections, the supplemental  
7 activities that we move on and the need for  
8 enhancing risk tools and uses with the fuel  
9 facilities, because it comes across when you do all  
10 this, in my personal opinion, that we are not  
11 helping to incentivize the licensees to use a  
12 corrective action program to identify issues early  
13 by giving them credit for that.

14 And in terms of our decision to where to  
15 put our resources, we don't use completely all the  
16 tools of risk insights to make those decisions. So,  
17 I just want to share that with you. It's not  
18 because I'm that knowledgeable. It just happens to  
19 be it gets funneled through me and you can't help but in  
20 that day-to-day activity realize that there are  
21 opportunities to enhance our oversight.

22 I'm very sensitive about the workload that

1 the licensees have. And I think that speed moving  
2 forward is a real discussion that we should have.  
3 But in terms of direction, from my opinion, clearly  
4 there are some enhancements that the agency could  
5 take advantage of and I think it would benefit both  
6 sides.

7 Thank you. I'll turn it over to Joe now,  
8 who will start the real meat of the presentation.

9 MR. SHEA: Good morning, Mr. Chairman and  
10 Commissioners. To set the stage for Dan's  
11 discussion of the path forward, I want to take a  
12 couple minutes to describe the structure and  
13 implementation of the current oversight program that  
14 we do have for fuel cycle facilities.

15 On slide 3, the oversight program can be  
16 viewed as having three essential elements, and those  
17 elements would include inspection, enforcement and  
18 performance assessment.

19 With regard to the inspection element, the  
20 current program is governed by NRC Manual Chapter  
21 2600, which lays out the roles and responsibilities  
22 within NRC for carrying out the inspection and

1 oversight program, it identifies the different  
2 inspection regimes that can applied to the range of  
3 facilities which includes core inspection, reactive  
4 inspection and supplemental inspections.

5       This manual chapter also specifies the  
6 number of inspection hours which are performed for  
7 each facility type across the range of inspection  
8 disciplines.

9       With regard to enforcement, non-compliances  
10 with regulatory requirements at the fuel facilities  
11 are currently treated under the NRC's enforcement  
12 policy, using the traditional enforcement approach.  
13 The revision to the enforcement policy or a revision  
14 is pending before the Commission provided up under  
15 SECY-09- 0190.

16       And that retains the use of traditional  
17 enforcement but enhances the sample base guidance  
18 provided for fuel cycle facilities by using the  
19 regulatory structures and concepts included in  
20 Subpart H, the ISA portion of Part 70, if you will.

21       On the third element, performance  
22 assessment, it was made reference earlier to the

1 systematic assessment of licensee performance  
2 previously done under reactors. And the current  
3 program for fuel facilities is much like that,  
4 consists of periodic reviews of performance at each  
5 facility. And that periodicity or that duration of that period can  
6 range from a nominal 12 months for the category one  
7 facilities to a nominal 24 months for the category  
8 three and other facilities.

9       The assessment period itself, the duration  
10 of that can be changed by the staff, depending on  
11 the collegial view of performance of that facility  
12 for the assessment period. And similarly, the staff  
13 can use the -- or does use the performance review to  
14 revise for the coming period of performance, the  
15 inspection resources that will be applied at that  
16 facility.

17       In terms of implementation of the program  
18 itself, the implementation of the inspection and the  
19 assessment elements of the program were shared  
20 between the Office of Nuclear Material Safety and  
21 Safeguards and Region II. MNSS does have lead  
22 responsibility in inspection space for criticality

1 safety and material control and accountability. And  
2 Region II has the lead for other aspects of facility  
3 performance.

4 The Office of Nuclear Security and  
5 Incident Response does have a role in managing both  
6 the program and implementing portions of the program  
7 for security oversight.

8 On slide 4, it's the staff's observation  
9 that the current oversight program is adequate to  
10 execute the NRC's Strategic Plan, safety and  
11 security strategic outcomes, as they are articulated  
12 in the supporting strategies. And the staff also  
13 observes, though, that the current plan has evolved  
14 and will continue to evolve slowly within that  
15 existing framework.

16 The staff is of the position, though, that  
17 the approach to making the improvements can be  
18 better focused around a more rigorously developed  
19 and articulated framework. And with that, we would  
20 be able to move more efficiently through a revision  
21 process.

22 Slide 5. In SECY-10-0031, the staff

1 requested that the Commission approve the staff's  
2 plan to develop a fuel cycle oversight process revision.  
3 And the purpose or goal of the proposed projects is  
4 to develop an oversight process that is more  
5 risk-informed, that is more performance-based, that  
6 is more predictable and provides a more transparent  
7 assessment of licensee performance. And Dan will  
8 touch on some of the details of that in a few  
9 minutes.

10 I would like to take a few minutes in the  
11 next couple of slides to characterize some of the  
12 elements of the existing program with regard to the  
13 attributes of being risk-informed, transparent,  
14 predictable.

15 Slide 6.

16 The current inspection program has been  
17 incrementally revised in the year since the  
18 implementation of the integrated safety analysis  
19 program to use the ISAs that were developed by the  
20 different facilities, submitted to the staff and  
21 approved to use those as tools for the inspectors to  
22 plan their inspection activities at the site.

1           For example, inspection procedures with  
2 regard to plant modifications and maintenance  
3 activities are examples of inspection activities  
4 that the inspectors use the ISA as a guide to what  
5 to look at.

6           However, the current oversight program  
7 also contains a number of programmatic inspection  
8 activities, inspection procedures in areas as  
9 diverse as management of operations to material,  
10 control, and accounting, and still contain  
11 requirements for inspectors to conduct  
12 nonperformance-based activities such as reviewing  
13 organization charts, reviewing training records and  
14 examining procedures for conformance to license  
15 documents, things that are not necessarily  
16 inherently indicators of the facility's performance.

17           In the previous slide, I remarked that  
18 the fuel facility program uses the traditional  
19 enforcement approach, and in this approach, the  
20 enforcement policy supplements provide guidance, but  
21 very little in the way of clear opportunity for  
22 considering risk information.

1           The revised policy, which is pending  
2 before you, does adopt a framework and terminology  
3 of Subpart H, and for future instances of  
4 enforcement where, for example, there is a  
5 straightforward violation with regard to the proper  
6 control and management of an item relied on for  
7 safety. The new policy and the guidance that the  
8 staff would develop to implement that should provide  
9 for a more streamlined  
10 decision-making on enforcement.

11           Slide 7. The current licensee  
12 performance assessment process is currently  
13 conducted by considering, among other things, the  
14 accumulation of enforcement actions that have  
15 occurred over an assessment period.

16           The licensee performance review process,  
17 as described in Manual Chapter 2604, takes the  
18 approach that the conclusions regarding licensee  
19 performance are reached by a consensus of NRC staff  
20 view conducting the process and acknowledges or is  
21 structured so that it's a quality of licensee  
22 performance. That's a judgment that the staff

1 brings to the table in a very qualitative way, is  
2 the basis for the collegial discussions.

3       To the extent that an accumulation of  
4 enforcement actions over a period may include some  
5 escalated enforcements, or the facility may have  
6 incurred a reactive inspection over that period, the  
7 staff can consider this, and to a limited extent,  
8 the process can be considered somewhat  
9 risk-informed.

10       However, overall, it is a very qualitative  
11 review, reminiscent of the SALP process that was  
12 referenced earlier and which was used in the reactor  
13 oversight until 10 years ago.

14       Slide 8. With regard to predictability  
15 in the current process, one area I would like to  
16 highlight is the NRC's decision-making threshold for  
17 dispatching inspections and assigning resources to  
18 inspections.

19       For decision-making on reactive  
20 inspections, those that occur principally in  
21 response to an event or a condition that were  
22 notified via the reporting requirements occurs at a

1 site, current guidance on making a decision whether  
2 we need to dispatch in a near term way additional  
3 inspection resources, that guidance is in Management  
4 Directive 8.3, and it does have some deterministic  
5 criteria that the staff uses to make those  
6 decisions. But unlike the decision-making process  
7 for reactive inspections and reactors, there are no  
8 quantitative thresholds currently contained in that  
9 guidance.

10         And, so, in terms of predictability, there  
11 are not infrequently questions from the  
12 stakeholders, the licensees and others how we made  
13 that decision and on what basis. And in the end it  
14 is on a qualitative basis from Management Directive  
15 8.3.

16         With regard to the enforcement process,  
17 while the revision to the enforcement policy to  
18 adopt the structures and terminology of Subpart H  
19 will streamline enforcement for certain types of  
20 violations that may occur, the staff is aware that  
21 there is, in fact, a substantial degree of  
22 variability between licensee methods and details by

1 which any individual licensees prepared the ISA's.

2           Consequently, I think the staff recognizes  
3 that with the pending policy, there will be a limit  
4 to the degree to which the ISA informed enforcement  
5 policy will actually improve the efficiency and  
6 predictability or enforcement decision.

7           So we believe that even though the  
8 proposed policy is a step forward, there will be --  
9 there remains other opportunities to find ways to  
10 risk inform the enforcement process. And again, Dan  
11 will touch on some of those.

12           Slide 9. In my description of the  
13 current licensee performance assessment process, I  
14 indicated the outcomes of that process can include  
15 supplementing the core inspection at the site for an  
16 upcoming period, and can include changes to the  
17 length of the assessment period itself.

18           However, there is essentially nothing in  
19 the current guidance that would allow an outside  
20 reader to be able to predict the outcome of those  
21 decisions based on looking at whatever performance  
22 evidence might be available like enforcement or

1 reactive inspections.

2           So, the process did not clearly include  
3 thresholds for those kind of decisions in changing  
4 inspection resources or periodicity for the process.

5           And finally on slide 10, with regard to  
6 transparency, we will note that the enforcement  
7 inspection results are generally publicly available.  
8 That is, they are put into ADAMS, with exceptions for  
9 security and security-related activities.

10           However, the availability of this  
11 information through various diverse portals and  
12 platforms does not really exist in the fuel program  
13 like it does in the reactor program, and so we  
14 believe there is opportunity to enhance the  
15 accessibility of the information. That is, while it  
16 is public, we think it can be made more accessible.  
17 And we see a project like this as the opportunity to  
18 take that on, as well.

19           And related to what I remarked previously  
20 about the use of traditional enforcement, the lack  
21 of clear guidance on consideration of risk in  
22 determining severity levels, then the decisions made

1 by the staff in our enforcement deliberations to  
2 either mitigate or escalate a severity level, again,  
3 lack transparent, because there is not a clear nexus  
4 to risk consideration in the guidance. So, thus the  
5 staff can be challenged to explain  
6 those decisions and the transparency of how we reach  
7 those.

8         So that's in a nutshell an overview of the  
9 current program. And I would like at this point to  
10 turn it over to Dan to talk about some of our  
11 proposals for taking it forward.

12         MR. DORMAN: Thanks, Joe.

13         Looking to the future on slide 11, we put  
14 before the Commission our proposal of the path  
15 forward. In the attachment to the SECY Paper, we  
16 included both a graphic depiction and a description  
17 of a general oversight framework that we will see a  
18 number of familiar attributes relative to the ROP  
19 where you had taken inspection finding, put it through a  
20 structured process for determining the significance  
21 of that finding, and then that would feed an action  
22 matrix where it would be clear the basis for the

1 staff's actions in terms of enforcement and any  
2 changes in the inspection program.

3       The plan touches in all of the areas that  
4 Joe has described. We would look to increase our  
5 risk insights into the inspection procedures in the  
6 baseline inspection program, as well as taking a  
7 broad look at the program itself and the need to  
8 redefine and refocus the inspection, perhaps remove  
9 some of the programmatic elements that Joe touched  
10 on and focus more on performance-based issues.

11       We propose to build a significance  
12 determination process that will use the existing  
13 ISAs, and I will go into that a little bit more.

14       And we envision in performance assessment  
15 that we would have an action matrix, something akin  
16 to what exists on the reactor side, but looking more  
17 at the fuel facilities and redefining what the  
18 levels would be and the actions that would  
19 be associated with such a matrix.

20       And finally in enforcement, we are  
21 envisioning that we would move toward a different  
22 process other than the traditional process.

1 And I will touch a little bit more on that later.  
2 But one of the pieces that we will need to consider  
3 in that is the corrective action programs of the  
4 licensees. And, again, I will touch on that briefly  
5 later.

6       Going to slide 12, as the Commission  
7 requested, we laid out a schedule of the activities  
8 over the next several years. The focus of the first  
9 year to year and-a-half of the effort would be on  
10 developing a technical basis for this. And I will  
11 touch on that a little bit more in another slide.

12       We would also start to work on the process  
13 development in some of the framework documents in  
14 terms of manual chapters during that period. But we  
15 would envision that, really, after we have gotten  
16 through the core of the technical basis development,  
17 would be when we would be really putting -- fleshing  
18 out the details of the implementation.

19       And we envision a transition period where  
20 we would, having already gotten stakeholder comments  
21 and put these procedures in place, that we would  
22 have a pilot implementation period before we got

1 into a full implementation. And throughout this  
2 period, we, of course, will be engaging all of our  
3 stakeholders to make sure that we have their  
4 perspectives considered in the development of the  
5 process.

6       Going to slide 13, a little bit more on  
7 the technical basis development, we believe that the  
8 ISA, as laid out in Subpart H, is a useful tool for  
9 focusing the staff's oversight efforts.

10       We envision that we would develop a  
11 screening tool that would use the information from  
12 the ISAs to identify items of the lowest safety  
13 significance that we would screen to put in the  
14 licensee's court for corrective actions.  
15 That process would rely on a corrective action  
16 program at the facilities.

17       These facilities do not have an overt  
18 regulatory requirement for a corrective action  
19 program the way the reactors do. So we would  
20 envision including in the baseline inspection  
21 process a problem identification and resolution  
22 inspection that would support the assumption of a

1 robust corrective action program to take the issues  
2 for licensee action.

3       And then for issues that do not get  
4 screened out as very low safety significance and  
5 warrant further review to assess their safety  
6 significance, we envision developing a flow chart to  
7 demonstrate a logic structure that would then be  
8 used to engage with the affected licensee's ISA.

9 This recognizes that there is substantial diversity  
10 among these licensees in terms of their operations  
11 and the processes that they conduct, the hazards  
12 that they have, as well as a diversity among the  
13 licensees on the methods that they use to  
14 demonstrate compliance with Subpart H

15       So each of their ISA processes has unique  
16 attributes. So rather than building site specific  
17 unique notebooks, we would envision having a logic  
18 structure that the staff would then be able to use  
19 to engage each licensee.

20       As we develop that, we envision using  
21 existing performance history, enforcement history,  
22 to look at inspection findings and evaluate them

1 through this process as we develop it. We also  
2 envision that we will probably have to hypothesize  
3 some higher significance findings to truly test the  
4 program.

5       And we will also be looking at -- we  
6 recognize that the certificate holders under Part  
7 76, the gaseous diffusion plants, do not have a  
8 requirement for an ISA; however, we believe that we  
9 will be able to work this with their safety basis to  
10 engage them in this structured process, as well.

11       Slide 14. We recognize that one of the  
12 challenges in this area will be a definition of  
13 thresholds for staff actions and for significance  
14 assessment. These are not quantified risk  
15 assessments. Mostly they are qualitative ISAs.

16       We looked at two options and described  
17 them in the paper of a qualitative or quantitative  
18 approach to defining thresholds and to the  
19 significance determination process. Recognizing  
20 that the existing ISA's are largely qualitative, the  
21 quantitative option that we looked at, would look at  
22 developing generic quantitative information to apply

1 to particularly human error probability aspects of  
2 the events that tend to get into these more  
3 significant issues.  
4       That would be a significant additional  
5 undertaking, and we think that the number of issues  
6 that we expect to go through this process on a  
7 yearly basis is relatively small. And, so, the  
8 benefit is, of pursuing that additional effort, the  
9 staff recommended we pursue the qualitative option  
10 at this time.

11       In slide 15 in the area of risk-informing,  
12 we used the ISA's in the new facilities for the  
13 enrichment facilities for LES and USEC to prioritize  
14 the focus of the operational readiness inspections  
15 in the IROFS that had -- the items relied on for  
16 safety that had the greatest impact. And building  
17 on that experience, the staff believes we can  
18 incorporate similar insights into the baseline  
19 inspection program.

20       As I mentioned, then the ISA would then  
21 also feed the significance determination and  
22 ultimately the enforcement policy and the thresholds

1 for an action matrix.

2           We do recognize that this is a challenging  
3 undertaking. In slide 16, I think we already  
4 touched briefly on the diversity of operations and  
5 activities, as well as the diversity of the  
6 approaches to the ISA among the different licensees  
7 and the certificate holders.

8           We recognize that we have a lot of other  
9 things on the industry's plate right now in terms of  
10 regulatory initiatives and generic issues that call  
11 on the licensees' organizations to provide  
12 meaningful comment on agency initiatives. And it's  
13 partly for that reason that we have stretched this  
14 out from what we were looking at a year ago over  
15 several years.

16           We think there are some issues that we  
17 need to work through in the near term to resolve as  
18 we prepare into this relative to the ISA  
19 implementation.

20           Performance deficiency was a definition  
21 that we had discussed in the public meetings with  
22 the licensees last year. And we recognize that

1 there are some reservations that they have relative  
2 to a staff proposal that we would look at not only  
3 things that had a clear regulatory violation nexus,  
4 but issues where the regulatory violation was  
5 perhaps not as clear but there was apparent safety  
6 significance. And that's an area that we will  
7 continue to have stakeholder dialogue.

8       And I already touched on the corrective  
9 action aspect.

10       On page 17, we have described in the paper  
11 that we will come back to the Commission on a  
12 biennial basis to provide status reports. We  
13 envision as policy issues arise throughout this  
14 process, we will use that opportunity to bring  
15 issues to the Commission.

16       I think we have described in the  
17 paper our proposal to defer a focus on performance  
18 indicators as they are envisioned in reactor  
19 oversight process, but we will continue to look for  
20 quantitative measures that we could use that would  
21 be an effective indicator of licensee performance  
22 and support our oversight process.

1           The risk surrogates and thresholds will be  
2 one of the challenging issues where I would envision  
3 that relatively early in the process we will be  
4 bringing our thoughts to the Commission on that.

5           The incorporation of safety culture is an  
6 issue that will be tied into the development of the  
7 oversight process, and we will continue to follow  
8 the development of the safety culture policy  
9 statement and keep the Commission informed of our  
10 thoughts on implementation.

11           I touched on performance deficiency.

12           Safety/security interface was an issue  
13 recently raised in the ACRS's review of our Standard  
14 Review Plan that we will be considering also.

15           Finally, in the Commission paper on Slide  
16 18 we acknowledge that we have described an  
17 approach, there are other ways to do this,  
18 incremental approaches to it.

19           We have proposed a holistic approach to  
20 the total oversight program. And we recognize that  
21 the Commission could choose other alternatives. And  
22 so at this point, we will be awaiting the

1 Commission's decision on our proposal.

2       Finally on slide 19, as Joe said, we  
3 believe the current process is adequate but warrants  
4 improvement. That we have made some improvements  
5 along the way, but we think that we can improve the  
6 total program using the existing ISAs.

7       The proposal we laid before you would have  
8 full implementation in 2014. And so the staff will  
9 now await the Commission's direction on what we  
10 proposed.

11       MR. VIRGILIO: Thank you, Dan.

12       That completes the staff's presentation.

13 We are ready for questions.

14       CHAIRMAN JACZKO: Thank you. We will  
15 begin with Commissioner Svinicki.

16       COMMISSIONER SVINICKI: Thank you. I  
17 know, Mr. Chairman, with a full Commission you need  
18 us to be ever more mindful of the time than we have  
19 in the past, so that will require me to try to be  
20 succinct, and not always my strong suit but I will  
21 try.

22       Just a bit of commentary, I think that the

1 scene setting, Marty, that you did, and Cathy and  
2 Luis, I think, what I was reflecting on there is a  
3 couple of things.

4       One is that we talk about the experiences  
5 and development of the ROP. And one of the things I  
6 think that NRC is rightfully very proud of is that  
7 the ROP works as well as it does, because an  
8 oversight program is something -- it is not hard to  
9 put one in place but it's exceedingly hard to do  
10 well.

11       And, therefore, I think that -- I know we  
12 have pulled in some people into the fuel cycle  
13 oversight development that have experience with the  
14 development of the ROP, and I think some of those  
15 battle-hardened veterans know how hard this is to do  
16 thoughtfully and to have something in place that is  
17 really indicating to you and monitoring the things  
18 so that it is not giving you assurances that you  
19 shouldn't have.

20       So, again, I credit all the hard work  
21 that's been done and the fact that this is something  
22 that is difficult to do, although the agency has a

1 very successful track record in the ROP. And I am  
2 glad we are drawing upon that experience.

3       Now, this will make no one feel like I'm  
4 going to be succinct by pulling out this document,  
5 but what's interesting, Luis, is you talked about  
6 the high level principles. And I have been trying  
7 to review some of the public meetings and these  
8 transcripts are in ADAMS for anybody who has the  
9 intestinal fortitude to look through them.

10       But I looked through them to try to  
11 understand how our communication is and how our  
12 engagement has been going with stakeholders. And  
13 what I interpret here is the notion of being more  
14 risk-informed and having better predictability and  
15 the high level principles that, again, our three  
16 scene setters talked about.

17       I think that there is good alignment on  
18 that. And, so, it becomes a question of not the  
19 where are we headed, but how do we get there. And I  
20 am back again to how difficult I am sure it was in  
21 the ROP, as I have heard from people who worked on  
22 development.

1           But in looking at transcripts, I feel  
2 there is some high level disconnects. And I don't  
3 know -- the one in particular I was looking at  
4 was from last fall. It was from October 6, 2009, a  
5 category two public meeting. And thematically I  
6 felt like although the dialogue went on for many  
7 hours, that there was some issues that were returned  
8 to that I think were disconnects.

9           One, Dan, is something that you alluded  
10 to, performance deficiency. And, again, there is a  
11 discussion in here about looking beyond the  
12 regulations. And I think many of you were either at  
13 this meeting or you have talked to your colleagues  
14 who are at this meeting, and a Mr. Gibbs, who I  
15 think is an employee of NRR was fielding a lot of  
16 the answers to the questions.

17           But he made a comment in here -- and the  
18 reason I have this is I didn't want to paraphrase.  
19 But Mr. Gibbs says -- he is referring to -- again,  
20 there is a lot of back and forth, but he says, "As  
21 we talked the regulations and commitments, meaning  
22 voluntary commitments by the licensees, by

1 themselves may not address all significant safety or  
2 security risk aspects. Just an acknowledgment that  
3 we would be interested in performance deficiencies  
4 that may not involve regulations."

5         So, Dan, that is what you were talking  
6 about. And the discussion in the public meeting was  
7 about standards and looking at licensees that have  
8 adopted standards. And I think there was a  
9 suggestion that perhaps they would not have an  
10 incentive to go beyond the regulations if they felt  
11 that that put them at some jeopardy.

12         Would anyone like to react kind of  
13 thematically to this notion that the revised fuel  
14 cycle oversight process would be extra regulatory or  
15 have aspects of that?

16         Dan, since you touched, maybe you would  
17 like to touch on that.

18         MR. DORMAN: Yes. I think you have  
19 described well what the industry concern was. I  
20 would take it one step further, as I think they  
21 expressed in those meetings a concern that they  
22 administratively control things in their facilities

1 at a level tighter than the regulatory  
2 requirements. And if we are going to go cite  
3 against those, that would be a disincentive to do  
4 so, which clearly we do not want to provide that  
5 kind of disincentive.

6 I think that where the staff was coming  
7 from with the performance deficiency definition is,  
8 again, going back to the underlying principle in the  
9 ROP and a recognition that an inspector may find a  
10 safety concern that they have difficulty linking to  
11 a specific regulatory requirement, but we can put  
12 through a risk- informed review process and may come  
13 out with a risk significance to that, although there  
14 may not be a clear regulatory finding.

15 I would expect that that would be the rare  
16 circumstance. Our underlying assumption is that our  
17 regulations are sufficient to provide reasonable  
18 assurance of adequate protection of public health  
19 and safety. So, we would expect that to be the  
20 exception and not the norm.

21 COMMISSIONER SVINICKI: And I appreciate,  
22 because you did acknowledge that this an issue that

1 you will continue to have engagement with the  
2 stakeholders and the regulated community on it. I  
3 think it is important, obviously, that we calibrate and  
4 at least they understand what our expectations are  
5 for development of the oversight program.

6       The other thing that I would just  
7 emphasize that I think smeared throughout some of  
8 this public record and transcripts are the fact that  
9 the industry has said that they have not been able  
10 to provide the level of detailed comments that they  
11 would like, because we're still talking at a very  
12 philosophical level about some of these terms that  
13 we're using.

14       And it was interesting, Miss Wheeler, who  
15 was a participant in this meeting, and I think that  
16 she represents NFS and she just says, "The reason  
17 why you don't see a lot of substantial comments, is  
18 we don't know what to comment on yet." And she says,  
19 "We are not able to give you anything more than the  
20 general comments you have received."

21       And Mr. Vias, who is an NRC  
22 employee, says, "By themselves the four major

1 documents we handed out are overwhelming, and we  
2 know that.”

3       So I appreciate, and I know you are sensitive to  
4 that. I know we will continue to work at the  
5 quantity of the types of documents at various levels  
6 that we are trying to share. I think that our  
7 stakeholders are trying to give meaningful input, I  
8 think we are trying to hear it. There is a real  
9 commitment to listening and understanding in here by  
10 the NRC staff. I encourage you to continue that.  
11 Thank you.

12       I went over anyway, and I told you I was  
13 going to try.

14       CHAIRMAN JACZKO: Thank you.

15       Commissioner Apostolakis.

16       COMMISSIONER APOSTOLAKIS: Thank you,  
17 Mr. Chairman.

18       The basis for performance-based risk  
19 informed oversight process is -- there are two  
20 elements to it. One is the performance  
21 requirements. And the other is the methodology that  
22 will be used.

1           So in comparing with reactor oversight  
2 process, there, of course, we have the core damage  
3 frequency and the larger, the release frequency.

4           Now, in this document that I read, I don't  
5 think there was anything that mentioned performance  
6 measures, metrics. And if you look at 70.61, there  
7 are performance requirements that have to do with  
8 dose, that have to do with intake, and so on. And  
9 I'm wondering why these cannot be used as a starting  
10 point for developing performance metrics?

11           I'm sure they will not solve all your  
12 problems, but at least you have a starting point to  
13 replace the core damage frequency, and so on. If  
14 you care to respond to this, please?

15           MR. DORMAN: Sir, the quantitative metrics  
16 that are provided in the performance requirements  
17 within the ISA structure form a -- they define the  
18 sequences that a licensee needs to evaluate for the  
19 identification of items relied on for safety. The  
20 Subpart H does not drive the licensee or the staff  
21 to require the licensee to quantify anything  
22 relative to those sequences.

1           So there is not, within the existing ISAs  
2 there is not a -- well, we have that ultimate hazard  
3 threshold, we don't have the underlying data to  
4 build that to define the outcomes in that  
5 quantitative way. So that would be further  
6 development.

7           MR. REYES: If I could maybe go at a  
8 higher level.

9           These facilities, the hazard, most of the  
10 time, is chemical, and it is only to the workers on  
11 site. So, the radioactive hazards measurement may  
12 not give you what the worst accidents that we are  
13 protecting against. So the hazards, really, are the  
14 chemical hazards instead of the radioactive hazards.  
15 So, it presents a difficulty in using the references  
16 you were talking about.

17           COMMISSIONER APOSTOLAKIS: But they do  
18 include chemical exposures, in theory?

19           MR. REYES: Yes, yes.

20           COMMISSIONER APOSTOLAKIS: It's is not as  
21 quantitative as the radiological --

22           MR. REYES: Correct. But you have to

1 include chemical releases.

2           COMMISSIONER APOSTOLAKIS: Well, then I  
3 have a philosophical problem. I don't know how you  
4 can have an action matrix if you don't have some  
5 metric. So you really have a major challenge in  
6 front of you.

7           But your question raises another more  
8 fundamental issue. You say that ISAs don't have  
9 the data, the ISAs do this, the ISAs that, 70.62  
10 says that the ISA should provide a consequence and  
11 the likelihood of occurrence of each potential  
12 accident sequence.

13           Judging from what you told me, Dan, this  
14 is not done. Why not?

15           And let me tell you what my problem is. As  
16 you know, many of us on the reactor side didn't look  
17 at the ISA and get enthused by it. This is a major  
18 project here, a multiyear project. And if the ISA  
19 is the basis for it, it seems to me nobody will ever be  
20 able to change the ISA.

21           And I'm wondering whether there's a  
22 document someplace that gives me details as to how

1 the ISA differs from a PRA that is done for  
2 reactors, and what are the arguments for that  
3 difference?

4 I understand that the reactors we have a  
5 core we are protecting. You guys have hazards all  
6 over the place. But that cannot be the only reason.

7 So, is there such a document -- has anybody ever  
8 looked at the ISA with a critical eye and compared  
9 it with a PRA and said, yes, I can do what PRA does  
10 here, but I cannot do other things for these  
11 reasons? I think the critical evaluation of this  
12 type will be very important before we move on to  
13 developing this oversight process.

14 So, I'm wondering whether you have any  
15 thoughts about that?

16 MR. REYES: I don't know that in the  
17 review of the ISAs we did the concept you are  
18 talking about, which is trying to do the crosswalk.

19

20 COMMISSIONER APOSTOLAKIS: Right. And try  
21 to be -- I'm sorry.

22 MR. DORMAN: Just to your comment on

1 designating a likelihood. The ISA -- the  
2 requirements in Subpart H require the licensee to  
3 provide a qualitative or a definition of likely and  
4 unlikely and highly unlikely, but it's typically  
5 done in a qualitative manner.

6 COMMISSIONER APOSTOLAKIS: You are pushing  
7 me down. What is a qualitative --

8 MR. DORMAN: I'm only trying to describe  
9 what I have, sir.

10 COMMISSIONER APOSTOLAKIS: I think by  
11 qualitative you mean to have range and say likely,  
12 unlikely, which range must have some basis.

13 So, somewhere there, somebody said,  
14 anything between ten to the minus two, and ten to  
15 the minus four is unlikely. And I haven't seen  
16 that. I would like to see that.

17 I appreciate that you have a lot of  
18 uncertainty and you may not want to go with exact  
19 numbers, precise numbers, but, still -- I mean,  
20 there were some statements in the document like if  
21 you become quantitative, you become less  
22 transparent. I can never approve a document that

1 has a statement like that in it. That human error  
2 probabilities are very difficult to quantify?  
3 This agency has been spending hundreds of  
4 thousands of dollars over the years doing that. In  
5 fact, right now the staff has been directed by the  
6 Commission to come up with a classification of  
7 problems and the appropriate human error models that  
8 apply to them.

9 And I think better integration of the MNSS  
10 side of the house with the reactor site would be  
11 very beneficial here. But to say that quantifying  
12 something makes it less transparent is just not  
13 acceptable, at least to me.

14 One final comment, if I may, unless you  
15 want to respond.

16 Okay, I have said enough.

17 Thank you, Mr. Chairman.

18 CHAIRMAN JACZKO: Commissioner Magwood?

19 COMMISSONER MAGWOOD: Thank you, Chairman.

20 It is easy to see this transition for  
21 Commissioner Apostolakis is going to be very, very  
22 difficult.

1 (Laughter.)

2 COMMISSIONER MAGWOOD: We will help you as  
3 much as you need during this difficult transition  
4 period.

5 What do I say after that?

6 First, let me make a comment about my  
7 colleague's concern about the lack of a clear  
8 comparison between PRA's and ISAs. I agree with  
9 that and support his desire to have some sort of  
10 analysis of that fashion. I think that would be  
11 very helpful in understanding this.

12 And I have actually -- when I was going  
13 through some of the background on this and reading  
14 some of the history, I saw that there is clearly a  
15 tension between sort of the old way and the new way  
16 in this entire process.

17 It sort of reminds me -- I think I have  
18 the right -- the B-36, for those who are aircraft  
19 history fans, which was a large bomber that was  
20 originally designed with propellers, and somewhere  
21 along the way somebody decided it was good idea to  
22 stick two jet engines on the either side. So you

1 had both -- you had a really horrible jet and a bad  
2 propeller-driven bomber, which was not very  
3 successful in either capacity.

4       And I wonder if that is kind of what we  
5 have created here, where we are sticking jets on a  
6 propeller-driven bomber? And are we trying to  
7 create a more modern process on a framework that  
8 really is an old not PRA-driven approach?

9       So in looking at this, I also recognize  
10 that on top of that difficulty, we are trying to  
11 apply this to a very broad range of facility types  
12 with different types of hazards. A conversion plant  
13 is not an enrichment plant, is not a plutonium  
14 processing plant. So this is a very, very difficult  
15 problem overall.

16       And I want to ask -- I want to direct this  
17 to Luis first, because he deals with this on the  
18 frontlines. In doing this, in going forward with  
19 this process, can you articulate what -- I don't  
20 want to sound too critical -- can you articulate  
21 what exactly were -- what improvements in our  
22 process where we have actually experienced? What problems are

1 we solving by doing this?

2 And are we creating more confusion than we

3 are really solving the existing problems? Can you

4 discuss that?

5 MR. REYES: Yes. I think that I can

6 parallel for the last decade with the reactor side

7 of the house improvements. And when Joe's staff is

8 conducting inspections, he gave a couple of examples

9 of things that we do in terms of the inspection

10 program that we believe there is not a lot of

11 benefit to it, because it is more in a compliance

12 form than in a risk-informed selection of samples,

13 selection of systems, selection of processes.

14 And that, to me, coupled with the current

15 enforcement process, traditional enforcement policy

16 ends up in an outcome where we are putting a lot of

17 effort and the licensees are putting a lot of

18 effort, and when you step back you say, is this

19 really where we want to put our effort.

20 So the combination of factors, what I was

21 trying to tell you was that the efforts of the regulator

22 and the efforts of the licensee, in my view, could

1 be better served by putting attention in different  
2 areas.

3       And I'll ask Joe to chime in. And without  
4 going through a lot of examples, we can give you the  
5 examples, but you mentioned reviewing org charts.  
6 The sample when we look at a system or we look at a  
7 process, what to sample in the system? What to  
8 sample in the process?

9       The ISA gives you a general qualitative  
10 area, is this particular interlock important,  
11 more important than the other one? So you  
12 prioritize your resources and the countermeasures  
13 that prevent the hazard from being realized.

14       So, that's what we are searching for, how  
15 best to use our energy and the licensee to  
16 prioritize safety, to minimize the hazard, to reduce  
17 risk.

18       I don't know if I state it too high.

19       COMMISSIONER MAGWOOD: No. I appreciate  
20 that. And since we are running out of time, let me  
21 follow-up on Commissioner Apostolakis' question  
22 which is regarding the PRAs. Given that's the

1 objection, why are not PRAs a better approach to  
2 take to get there?

3 MR. REYES: I think the next panel will  
4 give you some thoughts on that. But I think what they  
5 will say is that because there's not a lot of  
6 detailed information like there is on the reactors,  
7 if you go to WASH-1400 in the 1970's, I mean, gives  
8 us a lot of, a quarter of a century of those  
9 techniques and information and all that.

10 And I'm speaking out of turn and I don't  
11 want to claim to be a PRA expert, I think you have  
12 one on that side of the panel, but it will tell you  
13 there are difficulties in getting that kind of  
14 information.

15 On the other hand, the chemical hazards,  
16 analysis and all that, there are processes and  
17 information in the chemical industry that give you  
18 insights, I would call them, insights on where some  
19 of the priorities should be, again, because of the  
20 chemical hazard being the predominant hazard of the  
21 facility.

22 And I welcome the second panel to touch

1 more precisely on that.

2 COMMISSIONER MAGWOOD: Thank you, Luis.

3 Thank you, Chairman.

4 CHAIRMAN JACZKO: Commissioner Ostendorff.

5 COMMISSIONER OSTENDORFF: Thank you,

6 Mr. Chairman.

7 I want to thank the team here for a very

8 well delivered brief and it has been helpful. I

9 don't have a background in the process side on

10 oversight elements here, so it is very helpful.

11 Cathy, your articulation of the background

12 and the history was extraordinarily helpful for a

13 newcomer to this, and I appreciate that.

14 I also do not have a background in PRAs,

15 so I echo Commissioners Apostolakis' and Magwood's

16 request for us to, perhaps, have a better

17 understanding of the difference between the ISA

18 approach and the PRA approach prior to moving

19 forward on the policy paper.

20 I have a question really kind of directed

21 to both Dan and Joe, and let you decide who wants to

22 address it. But I noticed there have been some

1 thoughtful questions asked by my colleagues from the  
2 staff side on how does the oversight approach under  
3 the current system work from the staff perspective  
4 as well as the proposed qualitative approach, how  
5 that would work.

6 I would like to flip that a little bit and  
7 see from your perspectives would a licensee of the  
8 facilities, what behavior would be changed under  
9 this proposed approach or what specific changes  
10 might you envision as far as their operations or  
11 their ability to operate safely? I would like to  
12 see what is going to change on the licensee side?  
13 Whoever wants to take that.

14 MR. SHEA: I will.

15 One piece of the interaction between NRC  
16 and the licensee that I think could have a  
17 significant improvement and could drive a variety of  
18 behaviors on the licensees' part is the culmination  
19 of the licensee performance review process, where at  
20 the end of that process there is a public meeting  
21 between the staff and the senior management of those  
22 sites.

1           And the staff across the table looks to  
2 the senior managers in the eye and say, we, as your  
3 independent regulator, believe you have an area for  
4 improvement of such and such, and we believe that  
5 you need to focus more management attention on that  
6 area.

7           And my reflection in being in the position  
8 of having to make that statement to a senior manager  
9 is, if I don't -- if I as a senior manager don't  
10 hear something that is precise enough or actionable,  
11 I don't know what to do with what the regulator is  
12 telling me. An area for improvement in managing  
13 criticality is too broad.

14          So if I can, from my side of the table,  
15 have a process that allows me to give a much more  
16 precise characterization of what I think their  
17 performance challenges are, safety performance,  
18 regulatory performance challenges are, that will  
19 allow them to turn and marshal their resources  
20 toward safety much better than I can direct them to.

21          But I need to be able to build that on  
22 something that makes my final assessment and my

1 statement across the table credible.

2 COMMISSIONER OSTENDORFF: Let me just jump

3 in real quick, criticality safety, let's just talk

4 about that for a moment.

5 Are you saying under the current process a

6 specific deficiency or observation that an NRC

7 inspector or inspection team has is not communicated as

8 a deficiency to the licensee?

9 MR. SHEA: At the individual violation

10 level if there is an individual issue, the

11 inspection process and the enforcement process can

12 characterize that in a nutshell as here was the

13 issue of such and such significance. I mean, within

14 the limits of the traditional enforcement guidance

15 that we have. But we can speak to the licensee

16 management about that issue.

17 But when I step back as part of the

18 oversight process, which is -- which includes the

19 long-term performance, and I have to then take that

20 criticality issue and maybe a minor -- a severity level

21 four chemistry issue or chemical issue or maybe

22 a RP issue, and roll those up and give an overall

1 characterization of their safety performance over a  
2 period of time, over the long term and communicate  
3 that both to them and to the public, the connecting  
4 those dots on individual issues is a challenge, and  
5 right now from my view is one that we don't have a  
6 good basis to tie those together.

7       COMMISSIONER OSTENDORFF: I know we just  
8 have a half a minute here, but, Dan, do you want to  
9 add anything there?

10       MR. DORMAN: I would agree with that on  
11 the performance assessment process. And I think to  
12 your question, the specific issues are communicated  
13 clearly in individual inspection reports. It is  
14 this roll up at the end of a 12- or 24-month period  
15 that may not be as clear.

16       And I think also in the enforcement  
17 process, I think both in the assessment process and  
18 in the performance process, the staff is challenged  
19 in the internal dialogues that lead up to engaging  
20 the licensee on these issues. There are typically a  
21 number of perspectives that come to the table  
22 initially, and as it works through the management

1 chain, refines and becomes a message to the  
2 licensee.

3       And to the extent that the licensee is  
4 also looking at the enforcement process and the LPR  
5 procedures, when they receive that, it may not be  
6 fully clear to them how the staff ended up where it  
7 is.

8       And we have had a couple of issues  
9 recently where we have had licensees coming back to  
10 us on proposed escalated enforcement actions and  
11 questioning why at this level.

12       So we hope that building a more structured  
13 and predictable and transparent process would  
14 alleviate some of those issues.

15       COMMISSIONER OSTENDORFF: Thank you.

16       Thank you, Mr. Chairman.

17       CHAIRMAN JACZKO: A couple of questions.

18 One, I think there has been some suggestions about  
19 kind of a comparison between an ISA approach and the  
20 use of PRA's. How long does staff think it would  
21 prepare something like that?

22       MR. DORMAN: I would want to talk with my

1 staff before I committed to that. I think we have a  
2 senior risk adviser in MNSS, and he has background  
3 in both. He has been doing the ISA for 10 years but  
4 he was, for much longer than that, working in  
5 reactors with PRAs before that. But he would  
6 probably want to engage his peers in Research and  
7 NRR and NRO to achieve a consensus on that.

8 But I would commit to get back to you on a  
9 time that we would offer.

10 CHAIRMAN JACZKO: Just to get a sense,  
11 weeks, months, years?

12 MR. DORMAN: I would expect it would be  
13 months, not weeks, but not years.

14 CHAIRMAN JACZKO: It seems a key piece of  
15 the changes that we would want to make in this  
16 process, in many ways get to trying to -- I think,  
17 Luis and Joe, you talked a little bit about it,  
18 focusing our resources more on the things that are  
19 ISA significant, however you want -- maybe safety  
20 significant maybe is the best way to characterize it  
21 right now with the ultimate impact, then, of some  
22 things that are clearly of low safety significance

1 or non-safety significance, which may, nonetheless,  
2 be regulatory requirements that we reduce our action  
3 related to those kind -- or direct oversight or  
4 inspection related to those kind of things.

5       And the tradeoff there, I guess, is that  
6 we rely more on the corrective action program for that.  
7 To what extent right now do we -- do licensees Part  
8 70 and of course Part 40 and the GDPs, to what  
9 extent do they have corrective action programs  
10 already?

11       I guess that is a question I can ask the  
12 other panel, as well. But I don't know what the  
13 staff's sense is.

14       MR. SHEA: I don't know if I can say that  
15 they all have, but I would say if not all, nearly  
16 all of them will have a corrective action program of  
17 some sort.

18       Sometimes it is site based, sometimes if a  
19 facility that is part of a large corporation it will  
20 be a derivative of what that -- that large  
21 corporation. So there are quite a bit of variances  
22 between them. And there may or may not be informed by

1 INPO guidance and that sort of stuff, but  
2 they will have some sort of corrective action  
3 programs.

4 CHAIRMAN JACZKO: We would not be starting  
5 from scratch if that were a component of the end  
6 product?

7 MR. REYES: Correct. And my point earlier  
8 was we have noticed in the last decade on the  
9 reactor program that because we incentivize the  
10 licensees to if it is a lower level issue that they  
11 properly identify in their corrective action and move  
12 forward, that we would put our attention someplace  
13 else. The sophistication and effectiveness of  
14 those programs have really increased, have really  
15 increased because the values is there. If you solve  
16 the problem, you get to the root causes and you  
17 correct them, not only is it a benefit for them,  
18 they don't get the extra oversight from us.

19 So the incentivizing on using that ends up  
20 with a more sophisticated and effective root cause program.  
21 And we have seen that in the last decade with the  
22 reactor program.

1 CHAIRMAN JACZKO: Well, it is clear this  
2 is not an easy process. And I think Commissioner  
3 Apostolakis hit on a good point, which is the  
4 importance for sure of having a good solid technical  
5 foundation for whatever ultimate, I guess, really  
6 significance determination process or performance  
7 measures that we would have as part of this program.

8 I tend to personally think that there is a  
9 lot of work we can do in continuing to develop, and  
10 develop the program while that work continues to go  
11 on to see what the underlying fundamental foundation  
12 is.

13 And as I was reviewing the staff's paper,  
14 there is significantly more detail in the  
15 attachments about the kinds of things that the staff  
16 would be doing. And that does, I think, get to some  
17 of the issues, I think, Commissioner Apostolakis  
18 raised about having developing those specific  
19 performance practices. That would be something that  
20 would need to be done, and it seems the staff does have an  
21 approach to do that.

22 But I think it certainly is a worthwhile

1 question to ask about whether we have ever really  
2 looked at the ISA and the PSA and to see what they  
3 can do and how that can work together. So I think  
4 it is a good point.

5       The last comment I would make, this will  
6 be, the Commission will soon be having the agency  
7 action review meeting coming up, and I want to  
8 say -- I'm looking around for someone who will be  
9 able to correct me, but I think this will be the  
10 first time that we may not have a reactor at the  
11 agency action review meeting. And it is likely we  
12 will see fuel cycle facilities at the agency  
13 action review meeting.

14       And I think, to some extent, that is a  
15 reflection of the advantage of the ROP. Three years  
16 ago, four years ago, we had one facility, Palo  
17 Verde, in front of the Commission. Through the ROP  
18 we were able to provide a clear understanding to the  
19 licensee of where we believed their performance  
20 deficiencies were. They were able to provide a  
21 program to address those deficiencies, and those  
22 deficiencies have been corrected to the point that

1 they are though longer in front of us.

2       So, I think having that more systematic  
3 approach in the end will ultimately -- and as I  
4 think Commissioner Ostendorff raised the question,  
5 ultimately be an enhancement to safety. But,  
6 clearly, there are things that will need to get  
7 worked out in the interim. So, I appreciate your  
8 comments.

9       This is certainly, I think, an important  
10 topic. I mean, if the Commissioners want an  
11 additional quick round of questions, I am more than  
12 happy to do that.

13       Commissioner Svinicki, do you have any  
14 other questions?

15       COMMISSIONER SVINICKI: No.

16       COMMISSIONER APOSTOLAKIS: I would like to  
17 say that maybe I gave you the wrong impression  
18 earlier. I do get excited sometimes. I'm sorry if  
19 I appear to be too negative, but I do appreciate the  
20 difficulty that is in front of you. It's really a  
21 very challenging project. And, I mean, we can talk  
22 about it for a long time and try to use the

1 experience from the ROP.

2 For example, there was -- you mentioned  
3 earlier, Dan, I think, that the methods are  
4 different that the licensees are using. Well, why  
5 is that acceptable?

6 I mean, in the reactor site, we develop  
7 regulatory guide 1.200 precisely to remedy that. So  
8 there is a lot we can learn, I think, from there.

9 So I do appreciate the challenges in front  
10 of you, but and I'm looking forward to, in fact,  
11 interacting with you and other members of the staff  
12 to utilize the experience from the reactor side to  
13 the maximum extent possible.

14 Thank you, Mr. Chairman.

15 CHAIRMAN JACZKO: Well, thank you much.  
16 We will now hear from our stakeholder panel.

17 We had an interesting discussion from the  
18 staff about the -- I think the interest they have in  
19 moving forward with a new approach to doing our  
20 oversight activities, our oversight review.  
21 Clearly, this is a challenging effort but I think  
22 it's one whose time has come and is worth the effort

1 ultimately to put in place. But an important piece  
2 I think for the Commission is to have a good  
3 understanding of what the impacts would be on  
4 licensees, what the views of the members of the  
5 public would be about how we can make this program  
6 the most effective so we will start with Janet  
7 Schlueter who is the Director of Fuel and Materials  
8 Safety from the Nuclear Energy Institute.  
9 Janet, I'll turn it to you for your presentation.

10 MS. SCHLUETER: Thank you. Good morning,  
11 Mr. Chairman and Commissioners. And we appreciate  
12 the opportunity to present the fuel cycle industry's views on  
13 NRC efforts to enhance the oversight process today.

14 As you stated, my name is Janet Schlueter  
15 and I'm the Director of Fuel and Material Safety at  
16 the Nuclear Energy Institute. For background, NEI  
17 is the organization which establishes unified  
18 nuclear policy on matters affecting a wide variety  
19 of users and industries and we address generic  
20 regulatory issues as well.

21 With me at the table are four  
22 representatives of the 15 fuel facilities, and we

1 have other representatives in the audience today.

2       Next slide, please. We have three key

3 messages in today's presentation.

4 They are: That the fuel facilities are operating

5 safely. NRC's current

6 process is adequate but

7 could be improved. And the industry will continue

8 to support the NRC's efforts in this regard.

9       In addition to my brief opening and concluding

10 remarks, our four part presentation will demonstrate

11 a concerted and coordinated industry effort to

12 identify potential oversight process enhancements

13 while maintaining facility safety, including

14 radiological, chemical, occupational and

15 environmental.

16       Our first speaker will be Mr. Mike Boren.

17 Mr. Boren is the regulatory compliance and nuclear

18 safety manager at the USEC's gaseous diffusion plant in

19 Paducah, Kentucky.

20       Mr. Boren will provide a review a high level

21 overview of diversity of the fuel cycle facilities.

22       Mr. Scott Murray who is the licensing and

1 liabilities manager at the G.E. Hitachi's Fuel  
2 Facility in Wilmington, North Carolina, will then  
3 discuss our mutual goals and our collective efforts  
4 to identify viable enhancements to the current  
5 process.

6       Following Mr. Murray will be Mr. Robert Link.  
7 Mr. Link is the environmental, health, safety, and  
8 licensing manager for the AREVA Fuel Manufacturing  
9 Facility in Richland, Washington. Mr. Link will  
10 highlight the key tenets of an enhanced oversight process, some of  
11 which are modeled after the reactor oversight process  
12 but must be customized to the risk profile and  
13 diversity of the fuel facilities.

14       Ms. Jennifer Wheeler, who is the licensing  
15 and integrated safety analysis manager at NFS in Irwin,  
16 Tennessee, will then describe a path forward for  
17 continued industry and NRC engagement on this  
18 initiative.

19       Next slide, please. First and most  
20 importantly, we must emphasize that safety first is  
21 industry's daily operational philosophy.  
22 And due to the vigilance of the safety managers here

1 today, their staff and their respective  
2 organizations, the fuel facilities are operating  
3 safely and they stand ready to support the domestic  
4 and international growth of commercial nuclear  
5 power.

6         It should also be noted that industry  
7 firmly believes that NRC has established itself as a  
8 credible safety regulator of fuel facilities. And  
9 they have in place today an adequate oversight  
10 program that is not broken or in need of immediate  
11 repair.

12         That being said, we agree with the staff  
13 that there are opportunities for improvement by  
14 making the process more objective, predictable, and  
15 transparent to all stakeholders, and by integrating  
16 some available data and risk information that could  
17 inform the process and help us collectively  
18 prioritize our resources on our higher risk activities.

19         We encourage NRC to engage industry in a  
20 measured and meaningful manner to help achieve our  
21 mutual goals. Specifically, this effort should be  
22 prioritized with other ongoing regulatory issues and

1 implemented in a step-wise and on a time line that  
2 does not inadvertently divert resources from our  
3 safety mission.

4 As such, we are pleased that the staff  
5 paper describes a four-year time line for process  
6 development and implementation.

7

8 Finally, we supported NRC's effort last  
9 year on this initiative and we will continue to do  
10 so.

11 As such, we were somewhat surprised the staff paper  
12 is silent on how and when NRC plans to involve the  
13 industry in this important initiative.  
14 The brief three sentence discussion in staff paper  
15 entitled " Stakeholder Interactions" does not meet  
16 our, or we expect most stakeholders', expectations for  
17 meaningful engagement. Now, I'll turn to Mr. Boren  
18 to begin our presentation.

19 MR. BOREN: Good morning, Commissioners  
20 and Mr. Chairman. We appreciate the opportunity to  
21 discuss this important process. It is one that I  
22 happen to have been involved in for over 10 years

1 and feel it warrants some improvements, but as Janet  
2 said, we do not feel that it's currently in a state  
3 of desperate need of repair. But I want to take a  
4 few minutes to highlight the diversity of the  
5 facilities in the fuel cycle complex.

6       As we move forward to - as we look forward  
7 to working with the NRC staff and other stakeholders  
8 to improve the oversight process, we must consider  
9 the diversity of the fuel cycle facilities operating  
10 in the U.S. today.

11       This complex diversity of regulations,  
12 operations, and risk profiles sets the fuel cycle  
13 industry apart from the reactor sector,  
14 and presents some unique challenges as we move  
15 forward with this process. These 15 facilities were  
16 licensed and certified under three distinctly  
17 different sets of regulation because of their  
18 operational and risk profile differences.

19       There's one uranium conversion facility  
20 operating under Part 40, one operating gaseous  
21 diffusion plant under Part 76, and the remainder of  
22 the facilities under Part 70.

1           Even the Part 70 facilities vary widely in  
2 operations, license conditions and risk profiles  
3 that range from Category I to Category III fuel  
4 fabrication facilities to the newly constructed  
5 centrifuge enrichment facility. Conversely, all  
6 reactors are licensed under the same CFR Part 50 and  
7 have very similar operations and risk profiles.

8           Due to the high radiological risk  
9 potential to the public, the reactor regulatory  
10 requirements are more robust and the regulatory  
11 burden is thus great.

12           This consistency of regulations, risk, and  
13 operations makes the ROP workable for that sector.  
14 The diversity of fuel cycle regulatory  
15 requirements, operations and risk make using the  
16 ROP a challenge.

17           In the past, we've met with challenges on  
18 that track and those same challenges exist today.  
19 To be workable for the fuel cycle group, we feel  
20 the new FCOP must incorporate the flexibility to  
21 accommodate this wide spectrum of operations and  
22 risk profiles.

1           One example for the need for flexibility  
2 relates to how the significance determination  
3 process might be utilized as we move forward in  
4 improving the FCOP. The fact that the safety  
5 analysis of these facilities is qualitative makes  
6 utilization of quantitative ROP-style significance  
7 determination process problematic. And we realize  
8 that within the oversight process there is some  
9 qualitative nature. And there is a quantitative  
10 basis to some of our safety analysis.

11 But, in general, it is qualitative.

12           In addition, with the complexity of the  
13 ROP significance determination process, we believe  
14 would result in undue administrative burden on  
15 facilities at the generally chemical risk that they  
16 operate.

17           The industry understands and agrees with  
18 the NRC's goal to better align its oversight  
19 resources with potential risk, that is the right  
20 thing to do. The current process of allocating  
21 oversight resources is not well understood by the  
22 industry and stakeholders.

1           For example, full-time resident inspectors  
2 are assigned to all three CAT one facilities but  
3 then to one gaseous diffusion facility. No other  
4 fuel cycle facilities have resident inspectors and  
5 none are planned at the new enrichment facilities.

6           The process for allocating these resources  
7 does not appear to us to be risk-informed, nor is it  
8 transparent to us or the stakeholders. We look  
9 forward to working with the staff and Commission to  
10 implement improvements in the oversight process that  
11 incorporates risk insights and the flexibility to  
12 accommodate this very diverse group of facilities.  
13 Thank you very much.

14           CHAIRMAN JACZKO: Mr. Murray?

15           MR. MURRAY: Thank you Mr. Chairman?  
16 Commissioners. As Janet indicates today in her  
17 opening remarks, those of us invited here to  
18 represent the fuel cycle industry are pleased to  
19 continue the discussions on improving the regulatory  
20 oversight process.

21           The industry and NRC both have common  
22 goals regarding oversight, that is, to ensure no

1 undue risk from public health and safety results.  
2 And to ensure the probabilities of accidents with  
3 the potential to adversely affect public, health and  
4 safety remain low. Can I have Slide 5, please.  
5       The current NRC fuel cycle oversight  
6 process is based primary on experience, expert  
7 judgment, and takes into consideration our performance  
8 based on compliance and defense-in-depth. It is  
9 currently however, considered by many to be too  
10 subjective since the results may not be repeatable  
11 and seem to vary from review to review.  
12       Fuel cycle facilities support principles  
13 to improve these regulatory oversight processes, to  
14 make it more risk-informed, predictable and  
15 transparent to the public, and the licensee. These  
16 seem to be common goals between us.  
17       All of the industry representatives here  
18 today have been actively working with both NEI and  
19 NRC since really, the middle of last year on  
20 developing proposed revisions to this oversight  
21 process. And we participated in multiple  
22 teleconferences within Industry, five public

1 meetings with NRC.

2           And we plan to continue our support as our  
3 respective resources allow. As a result of these  
4 efforts, the Industry and NRC appear to agree on  
5 several common goals and objectives. This idea of  
6 making the oversight process more risk-informed,  
7 performance-based, predictable, transparent. And  
8 especially to make better use of our safety analyses  
9 efforts, this work we have done over the past 10  
10 years that we spent a lot of time and effort for.

11           Effective oversight process should reduce  
12 our portion of collective efforts currently  
13 spent on minor issues of low or non-safety  
14 significance thus freeing up our limited resources,  
15 to focus on and prioritize efforts on the higher  
16 risk activities unique to each site. Use of the currently  
17 reported information or trended information is  
18 highly recommended.

19           For example, all of the Part 70 licensees  
20 currently provide NRC annual ISA summary updates,  
21 annual reports on radiation workers, annual material  
22 control reports, semi-annual reports on release

1 effluence and there are many others.

2           However, meeting these goals requires  
3 realistic expectations and the availability and  
4 continued involvement of the qualified persons both  
5 at the facilities and with the NRC. And  
6 opportunities for public involvement.

7           Each Part 70 licensee has invested  
8 considerable time as I mentioned, to develop this ISA and  
9 NRC has approved all of these.

10           Both the industry and NRC staff  
11 acknowledge that the ISA risk insights have not yet been  
12 systematically integrated into the inspection  
13 process yet need to be, should be to further risk  
14 informed inspections. And in fact, some of the  
15 recent inspection experience regarding the ISA seems to be  
16 focused on what we would consider administration issues  
17 rather than being safety or risk-informed.

18           We believe that a better use of our mutual  
19 resources could be realized by risk prioritizing  
20 inspection procedures and results which would then  
21 be further informed by a transparent significant  
22 determination process.

1           Now, I'll turn it over to Bob Link who  
2 discusses our vision of the tenets of enhanced  
3 oversight process.

4           MR. LINK: Thank you. I will discuss what  
5 we believe to be the most important tenets of an  
6 improved fuel cycle oversight process, and to  
7 provide some suggestions for improving the process  
8 in its development. I'll also touch on some of the  
9 challenges we mutually have in meeting the  
10 objectives already described.

11           While the framework concepts of an action matrix  
12 cornerstone and cross cutting areas including safety  
13 culture, are important, we believe it all starts at  
14 the definition of "performance deficiency."  
15 In our work last year with the staff, they promoted  
16 the definition of "performance deficiency," from the  
17 Reactor Oversight Program.

18           We provided an alternative definition for  
19 consideration which had risk-informed attributes  
20 focusing on performance that would constitute what  
21 we consider all stakeholders would see as true  
22 deficiencies, simply, what needs improvement.

1 We could not get an agreement. In fact, we could  
2 not get a working dialogue in this critical  
3 foundational feature.

4 We urge some of the critical basic  
5 components of an oversight process need to be  
6 resolved early in such an important effort. Another  
7 example of a foundation piece of the framework  
8 discussed last year was the significance  
9 determination process.

10 We agree this is a critical attribute of  
11 an oversight process to assure the proper  
12 perspective is assessed regarding a performance  
13 deficiency. The SDP has input not only to the  
14 performance deficiency treatment at the hand in  
15 accordance with the enforcement policy but to assure  
16 the risk-informed consistent outputs to the  
17 inspection activities, either in response to the  
18 issue itself or other insights in lessons learned,  
19 feedback loop, to the base line inspections.

20 The attribute of predictability is  
21 critical in this aspect of oversight. The licensee,  
22 NRC, and all stakeholders should be able to assess

1 events and determine for themselves the events  
2 probable result in enforcement and inspection space.  
3 That's an objective, I think, that should be used to  
4 measure.

5       The use of corrective action programs  
6 voluntarily by the licensee to manage issues that  
7 enter the SDP should also be acknowledged and given  
8 appropriate credit within the SDP process and its  
9 inputs to enforcement and inspection. The SDP  
10 process coupled with performance deficiency definition should  
11 focus on the real issues and not use precious  
12 resources on administration aspects that can and  
13 should be measured within the licensee's corrective  
14 action program or other management measures.

15       As discussed by my colleagues, the  
16 licensees before you represent a small and highly  
17 diverse set of facilities as opposed to the greater  
18 than 100 homogenous power reactors. The use of  
19 performance indicators adds a level of complexity  
20 and potential lack of transparency to stakeholders.  
21 Their use appears to have limited value and are  
22 potentially confusing.

1           We do not recommend the use of performance  
2 indicators at this time with their consumption of  
3 limited resources to improve the process. We do  
4 endorse and support improved means of transparent  
5 communications to the industry and public but unless  
6 some significant effort is made to normalize the  
7 risk and significance between the ROP and the improved fuel  
8 cycle oversight process, the danger of the  
9 interpretation of equity between the reactor  
10 licenses and the fuel facilities is too great.

11           We would recommend a clear set of output  
12 communication standards separate from their reactor  
13 oversight process. We do support a mechanism for  
14 the risk-informed performance-based inspection  
15 process to have feedback into the inspections going  
16 forward.

17           This will provide a more efficient and  
18 effective use of resources by both the NRC and the  
19 licensees. While the emphasis always seems to be on  
20 what increased inspections may be needed, there  
21 should also be a means to allow decreased burden of  
22 inspection for demonstrated good performance

1 acknowledging the need for minimum oversight.  
2       This can also be based on the verification  
3 of good to excellent management measures of the  
4 licensees such as effective configuration control,  
5 plant safety performance and voluntary corrective  
6 action program as examples.

7       One significant element is the need for  
8 developing the tools for the inspectors to  
9 risk-informed and performance-base the inspection  
10 modules and methods. We have yet to incorporate  
11 into the existing inspection manual, the means to do  
12 this in a consistent, predictable and transparent  
13 way. This is not a simple task and will require  
14 noteworthy resources in their development. We will  
15 speak to the need of a well developed work breakdown  
16 structure that is resource loaded for all parties  
17 for this project.

18       And finally, a necessary tenet of this  
19 improved process is the need for revisions to the  
20 enforcement policy or it's implementing manuals  
21 and guidelines at the very least. Without this  
22 predictable element, all improvements can be lost as

1 the licensees and staff will be driven by this  
2 important aspect of the oversight process.  
3       During our recent effort, there appeared  
4 to be a reluctance on the part of staff to engage in  
5 a meaningful dialogue to identify any specific  
6 examples of how this element would be modified.  
7 Without this change, the entire improvement may be  
8 stymied or lost.

9       The need for commitment during the  
10 dialogue by all parties is going to be the  
11 determining factor in this initiative's success. The Industry  
12 supports and believes the oversight process can be  
13 improved. We need to determine what it looks like  
14 and then assign a priority and resources to get it  
15 done. Thank you.

16       MS. WHEELER: Good morning. The first  
17 point I would like to make on Slide 7 is that there  
18 -- I would like to echo the staff's recognition  
19 there needs to be a prioritizing of the FCOP effort  
20 against other NRC regulatory initiatives. For  
21 example, Part 70 working group products among  
22 others.

1           There are currently approximately 20  
2 regulatory initiatives being tracked by industry.  
3 Several were initiated by industry in 2007 and supported by NRC  
4 staff in an effort to formally clarify specific Part  
5 70 implementation issues.

6           Examples include Appendix A, reporting  
7 safety events, 70.72 facility change process, and  
8 soluble uranium intake consequence thresholds.  
9 Industry and NRC worked together, formed working  
10 groups for each of the issues, expended significant  
11 time and effort to develop consensus positions, and  
12 drafted guidance in some cases.

13           Yet, final guidance has not been issued  
14 for any of these initiatives to date. Two  
15 additional issues, dermal exposure and design  
16 features in the integrated safety analysis have been identified  
17 and are of concern to industry since it appears that  
18 NRC staff has revised its interpretation of a  
19 ten-year-old rule or its regulatory position on long  
20 standing matters.

21           Industry has requested and NRC has held  
22 several public meetings on these topics and we

1 appreciate NRC's willingness to discuss the issues.  
2 However, based on our experience with the working  
3 group initiatives, there is a lack of industry  
4 confidence that these regulatory issues can be  
5 brought to resolution in a timely fashion.

6 In the meantime, several licensees have  
7 received cited violations in these areas and NRC has  
8 raised these issues in the context of licensing  
9 actions in the absence of a clear regulatory basis  
10 for their modified regulatory position. All of these  
11 items directly affect the day-to-day operations of  
12 our facilities, in addition to being key to the ISA  
13 framework on which the FCOP will be based.

14 The second point I would like to make is  
15 there needs to be a detailed project plan as Bob  
16 mentioned with resource loading that can be  
17 supported by both NRC, industry, and other  
18 stakeholders. A project this large with support  
19 needed from multiple industry members, members of  
20 the public, as well as NRC headquarters, and Region  
21 II staff, needs a well developed project plan with a  
22 work breakdown structure and resource loading. It

1 should be developed with opportunities for input  
2 from all stakeholders.  
3       The plan should be used to document the  
4 commitment of all parties to participate at the  
5 estimated resource levels and for the target dates  
6 identified, thus giving the staff, industry, other  
7 stakeholders and the Commission, assurance that the  
8 end goal is realistic and achievable.

9       Such a detailed approach would also allow  
10 industry and NRC to pro-actively plan ahead for  
11 necessary interactions thus providing the ability to  
12 balance this important effort with other regulatory  
13 initiatives, ongoing day to day assignments and our  
14 highest priority of supporting plant operations.  
15 In addition, the project plan should include  
16 consideration of developing success criteria.

17       The four year development implementation  
18 plan proposed in the SECY paper is a significant  
19 improvement over the timing suggested in 2009  
20 whereby NRC planned to implement an enhanced program  
21 beginning late this year.

22       A comprehensively planned and measured

1 approach will enable all parties to participate at  
2 the level necessary to produce a quality product  
3 which I think is what we all want. Industry also  
4 believes that there is a need to define methods  
5 appropriate for measuring success and failure as an  
6 enhanced FCOP is implemented.

7       Such a monitoring and feedback process would encourage  
8 and allow for continuous improvement and foster timely  
9 implementation of program changes.

10       We look forward to discussions with NRC on the next  
11 steps and how industry can contribute to reaching our mutual goals  
12 for an enhanced oversight program.

13       Now back to Janet who will present our  
14 concluding remarks.

15       MS. SCHLUETER: Slide 8, please. As  
16 you have heard us all say, the Industry will  
17 continue to support this initiative as our resources  
18 allow and we do believe it should be prioritized with other ongoing  
19 regulatory issues that we are in active dialogue on  
20 with the NRC. We believe some of those issues do  
21 rank higher from a safety perspective and would  
22 provide greater regulatory stability than an

1 enhanced oversight process would.

2       We also support the early dialogue on the  
3 diversity of the facilities that Mr. Boren has gone  
4 over so that we can work with the NRC to identify  
5 the available data and information that is specific  
6 to each of these sites that could inform an enhanced  
7 oversight process.

8       In conclusion, the fuel facilities we  
9 believe are operating safely today. We do believe  
10 the oversight process is adequate but could be  
11 improved. And we will continue to work with the NRC  
12 to prioritize it and identify viable enhancements.  
13 So, again, we appreciate the opportunity to present  
14 these views to you today and we look forward to your  
15 questions.

16       CHAIRMAN JACZKO: Thank you. We will  
17 turn now to Linda Modica, who is the Chair of  
18 the Fuel Facilities Working Group, the nuclear  
19 issues activist team at the Sierra Club.

20       MS MODICA: Thank you Mr. Chairman and  
21 welcome to all the new Commissioners and we are glad  
22 that you now have a full team because a good leader

1 needs a team behind him to address all the issues  
2 that need to be addressed in the agency so good luck  
3 to you and all of you new members.

4 As you might know, the Sierra Club is the  
5 country's oldest and largest grassroots  
6 environmental public interest group and I'm here to  
7 present not only the Sierra Club's views as such  
8 but that the Sierra Club's  
9 views are the same as  
10 the public views.

11 We represent the public in their concerns  
12 for environmental protection. And I come to you  
13 from Tennessee where there are three fuel  
14 facilities in our -- I mean three nuclear  
15 facilities in the neighborhood that I live in. And  
16 I consider it an area of Appalachia that I nickname  
17 atomic Appalachia. So this is kind of an  
18 introduction to an area of the country that has a  
19 complex of nuclear facilities, one of which is  
20 Nuclear Fuel Services down in Erwin.

21 Next door to it on the same property as Nuclear  
22 Fuel Services is a waste processing, nuclear waste

1 processing plant owned by Studsvik. And about 15  
2 miles from there is a depleted uranium weapons  
3 manufacturer called Aerojet.

4       So and that's a State licensee.

5 But it deals with radioactive materials. So we are  
6 pleased to be here basically to introduce the  
7 issue of how the public perceives NRC regulation.

8       We are I guess in your parlance, a  
9 stakeholder. We are obviously -- you have got the  
10 full court press going on over here and now I'm,  
11 what, the tight end -- I don't know, it's a mixed  
12 metaphor. But it's -- but I don't feel a minority.  
13 My father had given me broad shoulders. It doesn't  
14 bother me one bit.

15       We are encouraged -- if we can go to Slide  
16 4, we are encouraged, the Sierra Club and the  
17 general public by the leadership of Chairman Jaczko.  
18 And something I didn't include in the slide is  
19 something I read later in an old New York Times article  
20 in the news there was at that time, Chairman Ivan  
21 Selin was the Chairman of the NRC and there was an  
22 unusual endorsement at that point of activist work

1 of the public's work, of the public clamoring with  
2 respect to the NRC that Chairman Selin gave and it  
3 was -- and that time is really reminiscent I think  
4 of now, this new time, at the Commission with your  
5 leadership, that it seems as if at least from your  
6 public statements, that you are recognizing the  
7 importance of public input to NRC decision-making.

8       So, if we could go to Slide 5 and just breeze  
9 through the view of fuel facility oversight  
10 from the vantage point of atomic Appalachia, and go  
11 to Slide 6, please. Some of the conditions we've  
12 got with respect to not only the fuel facility  
13 oversight process but other aspects of NRC  
14 operations, I mean, NRC decision-making, is that they  
15 seem to be stovepiped where divisions aren't  
16 communicating on a lateral level between one  
17 another, where enforcement actions are taken at the  
18 regional level and then at the national level, or  
19 here in headquarters. Decisions are made with  
20 respect to licensing which don't seem to be a  
21 function of -- the licensing decisions do not seem  
22 to be a function of enforcement actions that have

1 had to been taken in the past.

2           And that is especially important to note  
3 with respect to decisions that were recently made to  
4 license the processes regarding uranium  
5 hexafluoride at Nuclear Fuel Services where significant  
6 enforcement problems had occurred previously then  
7 and new license amendments were granted to the  
8 licensee.

9           So as I said before, Sierra Club is here  
10 to represent the public's interest. So I collected  
11 some of the headlines -- next slide please -- that  
12 have been written by members of the public, letters  
13 to the editor as indicators of public concern.

14           They are all intellectuals and I don't  
15 have to read them for you. But for the purpose of  
16 the public who's listening in on the webcast, I just  
17 would like to note the last headline: "Putting 42  
18 chemicals into the river isn't polluting?"

19           And I think that was telling, also, of the  
20 issue of the chemical hazards that are being  
21 received by the community. Now, we'll just breeze  
22 through these editorial cartoons, please, if the AV

1 folk will stop though at Slide 10.

2       We've got an issue of -- in our community  
3 of rising non-Hodgkin's lymphoma cancer death rates.  
4 These data were plotted by the State Health  
5 Department. And I bring this up because of the  
6 question, I know it has been said a number of times  
7 by staff and by the Industry, that they consider the  
8 oversight process already adequate.

9       But then I would ask and the public asks,  
10 well, if it was adequate, then why are we seeing  
11 rising radiation-related cancer death rates in our  
12 communities?

13       And then if we could -- I know the  
14 Chairman has seen a number of those editorial  
15 cartoons so I won't belabor the point and they  
16 are -- please don't take this as a sign of  
17 disrespect. This is a picture -- I'm trying to give  
18 you a picture of how the community perceives the  
19 problem of having a nuclear facility in their  
20 backyard, actually.

21       So, if we could skip to Slide 14 where  
22 we've got -- I'll tell you, I'm a big fan and I

1 believe the public and my cohorts in the Sierra  
2 Club would agree that an approach that focuses on a  
3 robust safety culture at the fuel facilities is a  
4 way that will enhance the public's health and safety but also  
5 enhance the oversight process.

6       So we look forward to that being  
7 incorporated in the new regulations. And, finally,  
8 let's skip -- you all will have access, you all who  
9 are listening in will have access to all the slides,  
10 I believe. So, if we can go to the last slide which  
11 is "Why not zero?"

12       I know that there are the ALARA rules, or the ALARA  
13 approach. But just as the public has difficulty  
14 with the word phony parlance "finding of no significant  
15 impact," what's reasonable to some people is  
16 unreasonable to others.

17       And if you are on the receiving end of the  
18 pollutants then "zero" is the reasonable number.  
19 So, I would hope that there would be a consideration  
20 by the NRC for a zeroing out of exposures to  
21 workers, zeroing out exposures to the public,  
22 zeroing out releases to sewers. And zeroing out

1 inventory differences span many losses of special  
2 nuclear materials. Thank you for your time.  
3 I appreciate being here and I also want to on behalf  
4 of the Erwin community and Erwin Citizens Awareness  
5 Network, I invite all of you, please, to come to  
6 Tennessee.

7 CHAIRMAN JACZKO: Thank you for your  
8 presentation. We will begin questions with  
9 Commissioner Svinicki.

10 COMMISSIONER SVINICKI: Thank you, Mr. Chairman.  
11 I appreciate all the presentations. Ms. Modica, as  
12 I looked at transcripts, they do kind of a role call  
13 of who participated in the meeting and I am always  
14 looking to see if there are members of the public  
15 interest community such as yourself. And I know,  
16 though, that you have to balance, there is a  
17 tremendous amount of issues that you are following  
18 as an organization and also your resources are  
19 limited. And even I think the NRC alone throws so  
20 much paper out there to be looked at and reviewed.  
21 So I appreciate your presence here today  
22 so thank you for that and for as much as you are

1 able to spread yourself across the issues, I

2 appreciate it.

3 I know we throw a lot of stuff out there

4 to be commented on. So thank you for that.

5 I would like to return -- for those of you, a number

6 of you were at some of the public meetings that have

7 been held with the NRC staff and your names are

8 spread throughout the transcript. I was indicating

9 with the staff panel that I thought that that was,

10 it was a very candid engagement in some of the

11 meetings and you covered some of the same concerns

12 here today.

13 You might have covered them in a little

14 bit more plain spoken way. When you have a day long

15 meeting with staff, I know you have the luxury of

16 being able to really dive into the issues. But it

17 did appear to me, one theme that struck me as the

18 stakeholders and the NRC staff are still talking

19 definitionally about these very high level

20 definitional issues of deficiencies and talking

21 about significance determination, that it seems to

22 me that you were expressing the fact that it is very

1 difficult to provide meaningful comment on things  
2 like inspection manual chapters and very detailed  
3 because if we're still engaging at the top tier  
4 level, it's difficult to provide comment on the  
5 detailed documents.

6       Would any of you like to make a response  
7 to that? I think that you have commented even as  
8 best as you could on some of the more detailed  
9 documentation, but do you think that some of the  
10 comment needs to be revisited as some of the top  
11 tier issues get resolved?

12       MR. LINK: Well, as I appreciate your  
13 diving into the detail of the transcripts and  
14 acknowledging that, there has been I'll admit a frustration,  
15 sometimes when we provided what we consider either  
16 alternate definitions specific or specific comments  
17 on some of the drafts, albeit documents that albeit are  
18 knowledged and there is some acceptance in  
19 that context, we don't sense what I call an  
20 engagement where at the end of that engagement I  
21 expect a productive outcome meaning that, and we  
22 don't expect anywhere all the time they will accept

1 our position or our positions are the right one,  
2 but to see some not -- taking that input  
3 and developing a specific milestone, call it a  
4 performance deficiency definition, so that critical cornerstone  
5 can then be moved on from and we know where that is  
6 going to be used. That's why we talk about  
7 foundational elements getting some structure and  
8 detail finished to move on into the other as expects  
9 of the process.

10       COMMISSIONER SVINICKI: I would note there  
11 has been comment on this side of the table about the  
12 paper that is in front of the Commission for voting and  
13 action. That was made publicly available, and a  
14 number of you have noted the timeframe the staff  
15 suggest. And I would just correct, a number of you  
16 called it a four year time frame. I think that  
17 the full implementation of the process is scheduled  
18 under the staff proposal, for January 2014 so that doesn't really give you any  
19 run time for development in 2014 and of course the  
20 Commission needs to evaluate this proposal. We've  
21 heard from Commissioner Apostolakis about  
22 potentially having some additional staff input to

1 that informing the Commission's views on that paper.

2       The Chairman inquired of the timeframe of  
3 the staff and said they would need to get back to  
4 us. So those details would need to be worked out as  
5 well. But I think at least two of you, Ms. Wheeler  
6 and Ms. Schlueter, you both expressed some positive  
7 steam about the timeframe.

8       I just want to verify that you did think  
9 that was adequate, January of 2014?

10       MS. SCHLUETER: It certainly was a more  
11 protracted schedule than what staff was discussing with us last  
12 summer. So I think Ms. Wheeler in her remarks did  
13 comment that any visibility that the staff could  
14 give us on a project plan of sorts that has  
15 milestones that we can predict better what are the  
16 points of engagement for the NRC; when will we  
17 discuss the higher level tenets or systematic  
18 approach to where are going? How do we get there;  
19 and then drilling down on specific documents and so  
20 forth itself will allow industry to ensure that it  
21 can dedicate the resources at the right time during  
22 that process.

1           So, yes, that timeline is certainly more  
2 attractive than the earlier one.

3           COMMISSIONER SVINICKI: So it was a  
4 comparative statement. It was relative to the  
5 earlier timeframe. And as a final question, there  
6 was discussion about the usefulness of examples and  
7 that in some cases often when a communication is unclear  
8 the parties agree that examples would be helpful.  
9 And I saw at least from the October public meeting  
10 that the staff had acknowledged that examples of  
11 some of what they were talking about would be useful  
12 and they committed to provide those. Have those  
13 been subsequently made public examples, and I didn't  
14 flag them so I won't take the time to look for this  
15 but have examples of some of the disputed  
16 interpretations of staff saying here is how we would  
17 apply this in a specific example? Are any of you  
18 aware that has been made public or posted?

19           Okay I'm getting that no one can confirm  
20 that. Thank you. I'll follow-up on that  
21 subsequently, I really shouldn't put you on the  
22 hook for answering that question. Thank you, Mr.

1 Chairman.

2 COMMISSIONER APOSTOLAKIS: Thank you Mr. Chairman.

3 I got the impression that you ladies and gentlemen

4 really don't care much about this. You don't think

5 it's necessary and you don't see the benefits. I

6 mean you gave us some general statements about

7 prioritizing and so on which I really don't see how

8 you can do with ISAs but -- so can you be a little

9 more specific?

10 Do you think there are real benefits from

11 this new oversight process? should the agency

12 proceed and expend the resources required to develop this? I mean

13 if everything is so great now, why do it? Can you

14 give me one or two specific benefits? If you don't,

15 that's fine, too.

16 MR. BOREN: No, I'd like to speak to it.

17 I mentioned earlier, I have been doing this for

18 off-and-on 10 years through the three initiatives

19 that have been launched and stopped for various

20 reasons. The sites work very hard at a very

21 detailed level and especially the corrective action

22 level.

1           We have learned over the years if you work  
2 at a very low level of threshold for mistakes or  
3 for errors, then you will prevent the larger  
4 mistakes and find yourself in compliance and you will  
5 find yourself operating safely.

6           The oversight process is currently not  
7 broken. That was our message. It works.  
8 NRC staff does a good job. They are very thorough  
9 at what they do and are technically oriented. What  
10 Joe was mentioning I believe would be my thoughts,  
11 that focusing their attention on a true safety  
12 aspect not looking so much at org charts or did you  
13 update an org when you made a management change,  
14 that doesn't seem to be a very risk-informed or  
15 useful way of using those resources.

16           We enjoy having two full time inspectors  
17 at our site. Their insights, they come in my office  
18 every day and say I was out in the plant and I saw this. It is  
19 not a big issue but it looks like something you  
20 won't be very proud of. And we're not. We go fix  
21 I. And we try to learn from it. Those insights  
22 are valuable. What do we would hope to gain from

1 this process? More recognition  
2 of our hard work over the years  
3 to build a corrective action program that  
4 identifies our own problems, fixes our own problems,  
5 where the NRC just has to come there and say we have  
6 inspected how you identified and corrected this  
7 problem and we either agree that you correct it  
8 fully and at the right level or we believe you've  
9 got more work to do. And we will take that and go  
10 forward with it.

11       So, what the staff verbalized as a benefit  
12 is very important to us. We believe in our  
13 corrective action program. We don't want NRC  
14 finding our problems. That's our job. So we  
15 believe that better risk-informing the process to  
16 where we get credit for the low level handling, the  
17 low level problems in house without NRC action is the  
18 right way to go. These are not brand new  
19 facilities.

20       We have been around a long time and doing  
21 this a long time. That is one example in my opinion  
22 where an enhanced oversight process would benefit?

1 MR. LINK: We see it as a benefit to be  
2 greater focused utilization of critical resources.  
3 That to me is the best element of the outcome. Now,  
4 that has to be achieved through some very useful and  
5 important attributes of the oversight process and  
6 how you form it, otherwise you can also devalue that  
7 outcome.

8 So if you sense some maybe anxiety on our  
9 part, it's because we have been through this attempt  
10 at least two if not three times already and those  
11 have been resource intensive by both parties which  
12 as the Chairman pointed out earlier without an  
13 outcome. So maybe we're a bit jaded by that  
14 history. Don't take a message other than if we can meet the objectives of the  
15 outcome of this, the industry strongly supports  
16 those outcomes.

17 COMMISSIONER APOSTOLAKIS: One question for Ms.  
18 Modica.

19 I hope I pronounce it correctly. I'm very  
20 sensitive because of my own name.

21 CHAIRMAN JACZKO: We don't exactly have an  
22 easy list of names going across the club.

1           COMMISSIONER APOSTOLAKIS: This figure  
2 with years of counts of deaths rising, I am a little  
3 disturbed by it. You sort of implied that the  
4 reason why the number of deaths per 100,000  
5 population is rising is the nuclear facilities. Has  
6 there been a study that showed this cause and effect  
7 there? Or is it just speculation?

8           MS. MODICA: There is was a study done by  
9 the regional epidemiologist for the State of  
10 Tennessee and she is the one who collected that  
11 data for Unicoi County which is the location of the  
12 Nuclear Fuel Services plant. And also the fuel, the  
13 low level waste processor Studsvik. No, she  
14 did not address a causation. And I didn't, I asked  
15 the question whether, because, well, when I included  
16 it in my presentation, I included it because  
17 non-Hodgkin's Lymphoma is one of the 22 cancers that  
18 is included in the Eocpa (Ph) Statutes as  
19 radiation-related.

20           And the epidemiologist had chosen all  
21 cancers. Actually there were other  
22 radiation-related cancers that Eocpa (Ph) covers; there

1 are 22. That also showed rising trends but I  
2 already had way too many slides so I couldn't  
3 give you all that. But I am happy to provide you  
4 with that entire study.

5 COMMISSIONER APOSTOLAKIS: I would like  
6 to see those studies very much.

7 COMMISSIONER MAGWOOD: Thank you. We all would  
8 like to see those studies. So when you receive  
9 those, I would appreciate seeing them. So,  
10 actually, I wanted to ask you a more general  
11 question in the same context.

12 I think obviously you have given a lot of  
13 to how the Commission has dealt with the nuclear  
14 facilities in the Tennessee region and maybe a  
15 little bit unfair question but give us a grade.  
16 How do you think the Nuclear Regulatory Commission  
17 has over the last, let's forward it a little bit,  
18 say, over the last decade, how have we done as a  
19 regulator on an A to E scale?  
20 Don't be shy.

21 MS. MODICA: I'm not shy. Well, there was  
22 a period that you might not be aware of where the

1 public was kept in the dark for three years called  
2 "the official use only period policy." That was an  
3 agreement between the DOE and NRC to basically keep  
4 the public in the dark with respect to enforcement  
5 actions, inspections, accidents, whatever was  
6 happening at Nuclear Fuel Services and BWXT in  
7 Lynchburg, Virginia. And that was definitely the  
8 low point. And at that period, the Commission  
9 abjectly failed to provide the public with any  
10 understanding of what it was, how it was protecting  
11 the public's interests.

12       It was very unfortunate. It was claimed  
13 to have been done as a result of 9/11 but it  
14 happened several years later and only for as I said  
15 for a three-year period. After that, there was a  
16 big dump of documents. And you know, a lot of what  
17 I say and what I know is as a result of reading the  
18 inspection reports and attending licensee  
19 performance reviews and having done that for a  
20 number of years.

21       So I've been at this for over a decade and  
22 have seen some improvements in outreach to the

1 general public and that's a real good thing. But as I  
2 mentioned before, we don't seem -- we don't see a  
3 vertical understanding or even a horizontal across  
4 the agency understanding of certain fuel facility  
5 problems. And also we see kind of a pointing of  
6 fingers where NRC would say it's a State issue and  
7 the State would say it's an NRC issue and that  
8 happens to us all the time.

9       And then, you talk to your local  
10 government officials and they say, well, it's the  
11 DOE, what can we do. These are private  
12 companies. So on average, I guess I would say about  
13 a "C."

14       COMMISSIONER MAGWOOD: That is better than I  
15 expected, actually. In that context, you know the  
16 conversation we have been having today about the  
17 oversight process, how much if we were to move  
18 toward being a B or an A in your view, how much of  
19 what needs to be corrected is process oriented and  
20 how much is doing the job that exists more  
21 effectively?

22       Can you characterize that somehow?

1 MS. MODICA: I tell you, we have known a  
2 number of inspectors and they live in our areas and  
3 we, they come to the meetings. We talk to them.  
4 They have a hard job. Their paperwork requirements  
5 are massive and their job is very difficult and we  
6 respect them greatly. And I applaud their work.  
7 Then we go to those good people and it is just  
8 terminology, I didn't seem to say anyone was bad at  
9 the NRC but they are especially doing hard work and  
10 they are at the facility, they are sometimes working  
11 night shifts and all that. That's hard stuff.

12 Then they send a report that's got maybe  
13 about six or eight carbon copies to be sent to  
14 various parts of the agency, sometimes with some  
15 major issue that's brought up this their  
16 report.

17 And it's hard to tell when you later have  
18 a license performance review, that might happen six  
19 months later or a year later that there had ever  
20 been either a reading of that report or certainly an  
21 appreciation for any of the findings by more senior  
22 management.

1           We had in it -- but some of -- I don't  
2 want to be unfair because there has been some  
3 turnover recently, retirements and you can  
4 understand that new people wouldn't know everything.  
5 But I'm coming to you from a community that, it will  
6 be honest to tell you, that the community knows more  
7 about your own inspection reports and your own audit  
8 findings, and your own LPRs and every other data  
9 that has been, or report that has been written than  
10 management of especially the new management of the  
11 Region II.

12           But use us as a resource and we are happy to  
13 share. And I will get you that data you ask for.

14           COMMISSIONER MAGWOOD: Appreciate your comments.  
15 Thank you very much.

16           COMMISSIONER OSTENDORFF: I thank all of  
17 the members of the panel for being here today, and  
18 it is helpful to hear from different perspectives. I  
19 want to go back to a line of questions, a little bit  
20 I had in the first panel with NRC staff, and  
21 specifically, with Dan and Joe on licensee behavior.

22           I'm mindful of the Chairman's comment in the

1 previous round of questions that dealt with perhaps  
2 some correlations between the Reactor Oversight  
3 Program and how we as an agency assess the  
4 operational safety of our current reactor fleet.  
5 And I want to draw that analogy to look at what you  
6 envision as being five or six years out from now if  
7 the new policy goes into play, with the qualitative  
8 approach recommended by the staff.

9 I want to maybe ask a specific question  
10 that deals with how you on your end as a licensee or  
11 representatives of different groups see that change  
12 in your behavior, how you operate.

13 I know Mike in a previous question from Dr. Apostolakis when he asked what  
14 are the benefits to this new oversight policy you had some helpful things to highlight  
15 the facility's corrective action plans and perhaps quite frankly be able to deal  
16 with lower significant issues in a more timely  
17 dispositional manner to focus on the more important  
18 issues; recognizing the diversity of the facilities  
19 and this is not a one size fits all question, I  
20 appreciate any comments from the industry  
21 representatives here for your facilities you represent, how do you see the proposed  
22 policy changing your operational safety posture or

1 how you do business? Whoever wants to address that?

2 MR. LINK: There have been a number of

3 comments by ourselves as well as the panel this

4 morning, a critical attribute assuming the oversight

5 process recognizes the voluntary corrective action

6 program, assuming they are inspected, and we

7 understand that as a prerequisite, to assure that they

8 are aggressive and detailed as Mike said to take the

9 threshold well done below what I call regulatory

10 concern, allow us to manage those issues because

11 many of those are precursors or if not lower threshold issues, if you really do put

12 good management measures in place, they will not grow

13 into incident of concern.

14 COMMISSIONER OSTENDORFF: My apology. I

15 did not provide enough explicit framework for my

16 question. Let me ask you to be as specific -- and I understand

17 the corrective action plan. Let's go aside from

18 that and let's talk about does it affect your hiring

19 practices, your infrastructure upkeep, your

20 maintenance practices? Training qualification?

21 How does it change your every day way of

22 doing business, not just the corrective action plan piece. I

1 apologize for that --

2 MR. LINK: I appreciate the clarification. I would believe again if the

3 oversight process is crafted correctly, it would

4 cause us to be putting more emphasis on the human

5 factors of our operators, of material condition of

6 our facilities to assure that we have preventive

7 measures that are meaningful, reliable, in place.

8 Those are the attributes I would suggest -- not that we

9 don't have those today but the focus and the

10 differentiation of which ones to focus on --

11 have greater detail.

12 MR. BOREN: Would it change a year from

13 now would my facility be operating obviously differently?

14 The answer to that would be "no." We would be

15 looking at things through NRC's oversight and that

16 is what we do. That is what my staff does.

17 We interface with NRC to ensure that they have a

18 clear understanding of issues and what's occurring

19 at our site.

20 Again, back to us identifying issues,

21 correcting our own problems. As an industry, we

22 agree with a goal of the process being more

1 predictable. I don't like surprises. My management  
2 doesn't like surprises.

3       It's my job to keep them from getting  
4 surprised. So, if I had a process where every six  
5 months, every year, every two years, we would be  
6 able to status our -- I'm not sure compliance is the  
7 right word, but our activities in a way that the  
8 public would understand better, that would be more  
9 transparent as far as how the resources are being  
10 applied and spent, make sure we and the NRC are  
11 focusing on the real safety issues and not the  
12 administrative compliance type things, I would hope  
13 that the public would see that as an improvement.  
14 But would it change the way I fix a piece of  
15 equipment? No, it wouldn't.

16       COMMISSIONER OSTENDORFF: Thank you.

17       CHAIRMAN JACZKO: Well, I think there has  
18 been some very good questions. I just have a  
19 couple. I certainly am hearing I think a couple of  
20 different things. Commission Svinicki, I think  
21 raised a point that some of the higher level  
22 concepts may not be well defined yet, what we would

1 define as a deficiency, a performance deficiency.  
2 At the same time I think that Commissioner  
3 Apostolakis raised an issue of wanting to get at  
4 more at the technical aspects that underlie any program  
5 we undergo or any new oversight process. The staff  
6 if their project schedule if I could, really put the  
7 emphasis early on, on the technical work, the  
8 technical basis development for whatever we would  
9 do.

10 And I think Ms. Wheeler, you talked about  
11 the new schedule being slightly more realistic and  
12 something that would fit better in your resource  
13 allocations. So maybe it is too broad a question  
14 but as we look to try to figure out how to put in  
15 place the right kind of program, is there a sense  
16 that we should be focusing first on the technical  
17 aspect of it, figure that aspect out, then  
18 get to issues like performance deficiency?

19 Or does that, which is the element that in  
20 your idea, would come first, or would be most  
21 important for us to focus on as we move step wise  
22 through putting in place a new program?

1 MS. SCHLEUETER: I think that we first  
2 need visibility of what the technical basis is and  
3 what it is not. That was not something that was  
4 discussed. Probably just wasn't relevant to the  
5 staff at the time or what have you. But without  
6 having visibility of that, it is difficult for us to  
7 determine where in the process we want to go back  
8 and address these higher level issues although they  
9 are very fundamental to moving forward.

10 CHAIRMAN JACZKO: Okay. So in that sense,  
11 the staff seems to have the right approach which is  
12 let's focus on the technical first, and then we will  
13 be able, perhaps, to address better the issues like  
14 what a performance deficiency is and we have that  
15 understanding of what the performance metrics would  
16 be, those kinds of things?

17 MS. SCHLUETER: To the degree that those  
18 discussions on performance deficiency, SDP, whatever, will inform their .  
19 technical basis, clearly we would like the opportunity to participate  
20 in that aspect of the process.

21 CHAIRMAN JACZKO: Mr. Boren, did you want  
22 add anything?

1 MR. BOREN:: It's important and at some point you have to have both,  
2 the technical aspects, what's the program, what's the vision for the program, what's  
3 it going to look like, and the framework, I guess. If you read the transcripts, I thought  
4 you would see pretty good alignment with the general  
5 framework that the staff had laid out. When we get  
6 into the details of what's a performance deficiency,  
7 you get us engaged because that's what we do.

8 When an inspector brings a finding to my  
9 office and characterizes it as a performance  
10 deficiency, we want to have a very clear  
11 understanding of what that means. And that it is at  
12 an appropriate level to deserve the resources that  
13 it is going to kickoff.

14 In other words, we are going to expend  
15 resources to address that issue, sometimes  
16 significant resources with relatively short staff. We do not want that to take our eye  
17 off of something else that could become a safety issue, so we want to stay at a high  
18 level and we want our people worried about safety issues not so much the  
19 lower level in the grass type stuff.

20 So while the definition of performance  
21 deficiency may seem like something we are bickering  
22 over an awful lot, it's that definition that will

1 generate entry into the process. And once you're in  
2 the process, then it's pretty structured. Then it's  
3 difficult to turn around and come back out. So it  
4 may seem very detailed but it is very important, also.

5 CHAIRMAN JACKZO: Well, I appreciate that.  
6 There is certainly a lot -- everyone keeps coming  
7 back to the same thing which is I think there seems  
8 to be a general sense that everyone agrees at the  
9 high level, there is something good to be done here.

10 And Ms. Modica I share your concerns about  
11 as a very senior level manager at this agency of  
12 going through inspection reports for the fuel cycle  
13 facilities is a very difficult task for me relative  
14 to the ROP for instance, because with the ROP I have  
15 aides to help me understand what is significant and  
16 what is the level of significance are.

17 I recall a visit to NFS Erwin and going through  
18 the licensee performance review for that year and  
19 there were findings, violations, whatever we call  
20 them in that context that ran the gamut from very  
21 administrative types of things to things that had  
22 significant safety impact. And yet as it was -- it

1 was presented, it is presented altogether without  
2 any relative ranking or relative acknowledgment of  
3 the significance of the different things.

4       So from a public communication standpoint  
5 I can understand that and I would certainly not want  
6 Luis to have to worry about those true compliance  
7 issues. I want him to be able to focused on the  
8 overall safety performance, those significant safety  
9 issues and ultimately that is one of the enhancements we can get from  
10 the program. Appreciate all of your comments.

11       We have now on the agenda just a brief  
12 opportunity for discussion with the Commissioners.  
13 I thought I would start I think with the one thing  
14 that I thought I heard clear agreement among  
15 Commissioners on, that is an interest to have from the  
16 staff, some kind of analysis and perhaps in the SRM we can work  
17 out the details of what that analysis exactly is,  
18 but to compare and contrast the ISA approach or the  
19 technical element of the ISA and the PSA as well  
20 seemed to be something that there was Commission consensus  
21 with.

22       COMMISSIONER SVINICKI: Yes, I think Mr. Chairman,

1 you also inquired, though, it would be good to know what staff's  
2 both schedule impact and I would add resources, I would like to know what  
3 it would take them to do that is important, and that  
4 of course would inform my view on what the  
5 sequencing, which is another thing you mentioned, is  
6 it truly something that would be an input to my vote  
7 on paper and also it just informs my view.

8 I have great respect for Commissioner  
9 Apostolakis but knowing exactly what staff thinks  
10 that would entail would be very informative I think  
11 to have.

12 CHAIRMAN JACZKO: Well, I think the staff  
13 should be able to provide resource estimates very  
14 quickly, so we can have that as we finalize the SRM.  
15 And Dan is nodding, so the record will reflect that  
16 Dan nodded. So we can be informed about that.  
17 The other point is to make sure Ms. Modica if you  
18 can provide that report to the Secretary of the  
19 Commission, then that can get circulated around to  
20 all the Commissioners and provide that.

21 Any other items that people thought  
22 immediately would come out of this?

1           COMMISSIONER SVINICKI: Of course this was  
2 a very detailed discussion and there were some  
3 really good proposals put forward by my colleagues  
4 so I look forward to looking at the transcript which  
5 I tend to do. Often, I think I asked someone or  
6 someone answered something and I find out it wasn't  
7 really in there. We had a pretty complicated  
8 discussion so I will be looking at the transcript as  
9 well. Thank you.

10           CHAIRMAN JACZKO: This has been for me a  
11 very informative meeting and I hope, sometimes we  
12 have a tendency in these meetings to figure out what all the problems  
13 are but I perhaps would leave I think with the  
14 comment Mr. Link made, Mr. Boren you made that at the high  
15 level, certainly there is a good sense and Ms.  
16 Modica, you indicated there could be some  
17 improvements in the process. I think we all recognize that there  
18 is a need to do it.

19           I would like to see us do it right, do it once,  
20 and not start again and stop again. So, take the  
21 time at the Commission to figure out the right path  
22 forward to having an enhanced process, whatever we

1 call it in the fuel cycle arena because that is a  
2 shared goal that everyone has, so appreciate the  
3 meeting and all the contributions. Thank you. We  
4 are adjourned.

5 (Whereupon, the meeting was adjourned)

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