

KATHLEEN HANIGAN

BILL JAMES

CHERYL HALL

PARTICIPANTS: (Continued)

ALICE JOHNSON

DANIEL LAFONTAINE

CHRISTOPHER CHURCH

RONALD HICKS

DALE BOYLE

LEE JAN

DONNA RICHARDSON

JOANNE BOLTON

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MARGARET O'K. GLAVIN

DANIEL ENGELJOHN

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CAREN WILCOX

DALE MORSE

GARY WEBER

ROGER BREEZE

JIM LINDSAY

JANE ROBBINS

ROBERT POST

PHILIP DERFLER

PATRICIA STOLFA

JUDITH RIGGINS

AMY RAINES

PARTICIPANTS: (Continued)

SUSAN RIBBONS

KIM RICE

P R O C E E D I N G S

(8:37 a.m.)

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3 MR. BILLY: On behalf of the Department of
4 Agriculture, I'd like to welcome the committee, the Advisory
5 Committee on Meat and Poultry Inspection, as well as all the
6 other attenders from the public to this session of the
7 advisory committee meetings. Welcome to Washington. We
8 arranged this weather for you. The only way we're going to
9 get any work done. Since we often get blamed for the other
10 kind of weather, I thought we would give you this.

11 This is, once again, a very important and timely
12 meeting. The staff from the Food Safety and Inspection
13 Service will be briefing the committee members and the rest
14 of you on a number of important issues, and as always, we
15 look forward to your recommendations and advice.

16 In addition, we have asked Dr. Floyd Horn to
17 provide us a briefing on Agricultural Research Service
18 research on food safety, and our understanding that either
19 Floyd or one of his associate administrators will be here
20 later today to provide that briefing to you.

21 I also at this time want to thank the committee

1 for its hard work. This committee, as in its current
2 makeup, has met on two occasions and accomplished a great
3 deal in terms of addressing a variety of issues. Included
4 are the qualifications of personnel working under HACCP,
5 extending inspection to all meat and poultry animal species,
6 retail exemptions from inspection, the FSIS strategic plan,
7 the in depth review of HACCP plans, the adoption of the food
8 code, the regulatory reform area, and expanding the number
9 of pathogens to be used in performance standards.

10 Some of these areas we will continue to focus our
11 attention on, and on the agenda we have several new areas
12 that we intend to address as well.

13 I believe we have a full agenda. We have tried to
14 time things in a way that will provide an adequate period
15 for discussion and comment certainly by the committee, and
16 then also opportunity for input from the public.

17 With that brief introduction, it's my pleasure to
18 introduce Dr. Cathy Wotecki. She is the under-secretary for
19 food safety in the Department of Agriculture, and she is
20 going to brief you on the President's Food Safety Council
21 and its activities and achievements as well as focus briefly

1 on the international area, an area that is paying a great
2 deal more attention to the area of food safety.

3 Dr. Wotecki.

4 MS. WOTECKI: Thank you very much, Mr. Billy, and
5 good morning, everyone. I would like to add my words of
6 welcome, and also extend to a welcome from the secretary of
7 agriculture.

8 This is the first time that this committee has
9 convened since the final implementation date where that
10 whole HACCP implementation has occurred, and I think it's
11 important to mark that. It occurred in January of this
12 year. And this committee has played an important role in
13 providing advice to the secretary and to the agency, as well
14 as to my office, during the last three years of
15 implementation of this very important new approach towards
16 food safety.

17 And I thought it would be important, first of all,
18 to mark that occasion, I think it should be noted, and also
19 to extend my thanks to those of you who have served on the
20 committee and provided advice to us over the last several
21 years.

1 And I think another important role of this
2 committee has been in providing advice to the secretary, to
3 me and to Mr. Billy and the entire agency about future
4 directions for HACCP. As Tom was reading down that list of
5 areas in which the committee has made recommendations, there
6 were quite a number of them that had to do with looking
7 forward as to how this approach is going to evolve, and I
8 think that that clearly is going to be an extremely
9 important area in which we're going to be seeking this
10 committee's advice not only during this meeting, but also in
11 upcoming meetings.

12 Last time we met I provided you with an update on
13 what the President's Food Safety Council had undertaken in
14 the area of strategic planning and budgeting, and I thought
15 today I would just give you a very brief update on where we
16 stand on that strategic plan activity, and also, as Tom
17 indicated, to talk about some of the work that we have been
18 engaged in on the international level.

19 So, first of all, let's turn to the strategic
20 plan. As I have told you in the past, and many of you have
21 also participated in the public meetings, more than a half

1 dozen of them that have been held in the development of this
2 strategic plan, it is a plan that's going to cover a five-
3 year time horizon, and the goal of the plan is to improve
4 the public health through food safety, and also, by better
5 coordinating the activities at the federal, state and local
6 level of government agencies.

7 The plan is actually going to serve a variety of
8 different purposes. Clearly, it will set goals and
9 objectives for the next five years, primarily focusing on
10 the federal level but also emphasizing the working
11 relationships between the federal and the state agencies.

12 It is also designed to identify areas in which to
13 increase the efficiency of the work of these agencies, as
14 well as areas in which they can better coordinate their
15 activities, to identify where there are some gaps and
16 shortcomings in the current approaches, and to provide
17 action and to fill those gaps.

18 So it's going to identify priorities and with an
19 eye towards making the best use of the limited resources
20 that government has to apply to food safety.

21 We're coming very close to completing the plan.

1 Our intent is -- the task force that I have been chairing,
2 co-chairing with Commissioner Jane Haney of the Food and
3 Drug Administration, our task force will be providing a
4 final draft plan to the President's council at the beginning
5 of July, and the counsel, after it reviews it, will be then
6 forwarding the plan to the President during the month of
7 July.

8 The plan has three major sections to it. The
9 first identifies a set of goals and action items to
10 accomplish those goals, as you would expect a strategic plan
11 to do, and that section is divided also into three parts
12 with goals that address the role of science and risk
13 assessment in food safety; the second area focusing on risk
14 management; and the third on risk communication.

15 The second major section of the report deals with
16 organizational structures at the federal level, and we will
17 do a thorough analysis of a set of alternatives that are
18 very closely based on the recommendations from the National
19 Academy of Sciences report.

20 The third major section reviews legislation and
21 identifies some areas in which some additional legal

1 authorities would be helpful at the federal level to fill in
2 some of those gaps that exist.

3 Right now we are working on developing performance
4 standards for the plan, so there will be some very objective
5 performance standards that are included in the plan, and
6 those performance indicators, some of them are going to be
7 derived from the Healthy People 2010 report. Others are
8 going to be derived from performance indicators that are
9 part of agencies' Government and Performance and Results
10 Acts strategic plans, which also call for very specific
11 performance indicators.

12 Now, once the plan is delivered to the President,
13 we will continue with seeking public comment on the plan.
14 We have had a series of meetings with stakeholders. We also
15 expect that the international community is going to have a
16 great deal of interest in this report and its implications,
17 so we will also be seeking venues for further discussions
18 with the international community.

19 So at this point we're working very hard to just
20 get the final editing done on the report, to get it into
21 clearance so that the council, when it receives it, will be

1 able to do a rapid review of the report.

2 And as I indicated to you, the deadline that we
3 are going to reach is to submit it to the President during
4 the month of July.

5 I'd like to turn now to some international
6 activities that have been occupying us for the last several
7 months. One of them has been what has also been a major
8 area of activity for FSIS over the past many years, and
9 that's the work of the CODEX Elementarrious Commission.

10 As all of you know, Mr. Billy was elected the
11 chairman of the CODEX Elementarrious Commission, and I think
12 it's partly an indication of how important we believe that
13 that work of that committee that we very actively supported
14 Tom's candidacy for that position.

15 There have been, though, a number of concerns
16 about some of the directions, particularly at the policy
17 level that have been under discussion within the CODEX
18 Committee on General Principles, and I had the opportunity
19 this past month to be the head of the delegation from the
20 United States that went to the meeting of the CODEX
21 Committee on General Principles.

1 There was a paper that was under discussion on the
2 agenda at the meeting on risk analysis, and it's a paper
3 that has a dual purpose: to provide guidance to CODEX
4 committees on risk analysis in their work, as well as to
5 provide advice to countries on risk analysis in the way that
6 they approach making their food safety decisions.

7 The European Union had attempted to introduce into
8 this paper a concept that they call the precautionary
9 principle. If you've been following this at all, you know
10 that this is a concept derived from international law
11 decisions that have largely been made in the environmental
12 area.

13 The principle itself is not defined. Rather it's
14 inferred from these international law decisions, and as we
15 understand it and as the European Union has further
16 elaborated it in a communication that they issued in
17 February, it's called the Communication from the Commission
18 on the Precautionary Principle. This concept would apply
19 across safety decisions that are made in the environment and
20 health, and include food safety.

21 Essentially what the precautionary principle as

1 it's elaborated in this document would do is that if it were
2 widely adopted, it would permit risk managers to make what
3 they call a political decision if there is an absence or a
4 sparsity of information about lack of harm from a particular
5 technology or a particular situation.

6 Risk managers then could invoke the precautionary
7 principle and say since we don't know what all of the
8 outcomes might be from the adoption of this technology or
9 the adoption of this approach, we can refuse to permit it
10 into our country or whatever the domain is over which the
11 risk manager has this responsibility.

12 We have been very concerned about the application
13 of this principle within the CODEX's framework of
14 decisionmaking and our apprehension is actually shared by
15 many other countries who are members of CODEX. In
16 preparation for the CODEX Committee on General Principles
17 meeting, we had prepared a response that essentially
18 articulated a set of questions to -- actually addressed to
19 the European Commission's paper that they had submitted on
20 the precautionary principle, and we elaborated a set of
21 positions which in a public meeting prior to going to the

1 CODEX Committee on General Principles we got comment from
2 consumer community and also from the industry.

3 So the end result is that this paper that was
4 under discussion during the CODEX General Principles meeting
5 on risk analysis remained at the same level of discussion as
6 it had been introduced at. There is an eight-step process
7 for the approval of papers within CODEX, and this one
8 remains at level three.

9 We were, as I said, very concerned, as were many
10 other countries, that if this concept of a precautionary
11 principle was introduced into this risk analysis paper, that
12 it could be misused as a disguised barrier to trade. It's
13 not that the United States is opposed to precaution. That
14 is not at all the case. We believe that precaution is
15 inherent in our own legal framework and in our regulatory
16 framework.

17 What we're concerned about though is a political
18 decision that could be used as a barrier to trade, and
19 essentially the sanctioning of this approach with CODEX if
20 this concept is included within this paper on risk analysis.

21 So as far as the outcome of the meeting on general

1 principles, we were quite pleased that we had achieved our
2 objectives in the discussion of this issue within general
3 principles. There was a very active and open discussion.
4 There were many countries that supported some of the
5 positions that we took during the discussion.

6 There was also a good deal of concern from
7 developing countries about the introduction of the
8 precautionary principle, and the end was that the paper, as
9 I had indicated, stayed at the same step within this eight-
10 step process. It remains at a very preliminary level at
11 step three. There is a good deal of bracketed language
12 which essentially means that that language is for further
13 discussion this year. And we agreed during the meeting on a
14 process to continue the discussion of how member countries
15 in CODEX use precaution in their decisionmaking, and also
16 how CODEX should approach the use of precaution in the
17 elaboration of its standards and guidelines.

18 So as I said, I think we achieved what we set out
19 to do, which was to have a good discussion of this, and also
20 to continue those discussions over this coming year.

21 The second international activity that I wanted to

1 bring your attention to is something that perhaps has not
2 received as much publicity as this discussion of precaution
3 has. What I would like to bring you up to date on is some
4 work that's been ongoing in preparation for the G-8 summit
5 meeting that is going to be held in July this year in Japan.

6 At last year's meeting the President of France
7 raised the question of whether there should be an
8 international food safety organization established. And the
9 G-8 presidents and prime ministers had a brief discussion of
10 the question, and decided that they would refer it to the
11 Organization for Economic Cooperation and Development, the
12 OECD, which is located in Paris.

13 The U.S. is a member of the OECD as are 28 other
14 countries. These are primarily the developed countries of
15 the world -- Europe, U.S. Japan and others, and in referring
16 the question to the OECD the G-8 asked for a set of reports
17 that would guide their discussions when they meet this July.

18 The upshot was that the counsel of the OECD
19 developed some terms of reference that ended up in the
20 development of five separate papers for the G-8
21 consideration this summer.

1 One of those papers is a report from a conference
2 that was held in Edinburgh, Scotland a couple of months
3 ago that focused on the safety evaluation of biotechnology.

4 Out of that paper has come a recommendation from its
5 chairman, Sir John Krebs, for an international forum to be
6 established to hold meetings periodically, scientific
7 meetings that would deal with issues of biotechnology and
8 food safety.

9 Two other papers deal with very specific aspects
10 of biotechnology as well. One of them is a brief review of
11 the approaches that different countries have taken towards
12 the safety evaluation of foods that are the products of
13 biotechnology. The other one deals with the evaluations
14 that have been done of the environmental impacts of
15 biotechnology. Again, these are primarily plant products of
16 biotechnology.

17 The final two papers are ones that describe
18 national food safety systems of the OECD member countries,
19 and international food safety organizations. This final
20 paper describes the work of the CODEX Elementarious
21 Commission as the international standard-setting body, but

1 also indicates that there are a number of other
2 international organizations that do have specific roles that
3 are played in food safety beyond the work of the CODEX.

4 So there are some things, for example, that the
5 parent organizations of CODEX, FAO and WHO, undertake
6 specific programmatic activities that deal with food safety
7 that are described in this paper, as well as the work of
8 other international organizations.

9 These five papers then are going to be summarized
10 and submitted to the group that are preparing the agenda for
11 the G-8 meeting, and we are also working within each of the
12 eight member countries to develop our own country positions
13 on this question of should there be an international food
14 safety organization established.

15 An important point that we have made consistently
16 throughout the discussions that have led to the development
17 of these papers is that there is an international food
18 safety organization. It is the CODEX Elementarious
19 Commission. And if member countries have got some concerns
20 about CODEX, then let's not set up anything in opposition to
21 it or competition with it, let's fix CODEX and strengthen

1 CODEX to move forward.

2 So I thought it would be important for you to know
3 that this activity has been ongoing very actively over the
4 last six months to prepare for the G-8 meeting, and I will
5 be happy to answer any questions that you might have on this
6 as well as the President's Food Safety Council or other
7 issues.

8 I, in preparation for the meeting today, looked
9 over the agenda. I also had an opportunity to read through
10 all of the papers that were sent to you in advance of the
11 meeting. It is a very significant agenda that's under
12 discussion with implications for the future of this agency
13 and also for the future of the safety of meat, poultry and
14 egg products.

15 So I also would like to get into that agenda as
16 quickly as we can. It's going to be, I think, a very
17 interesting and informative two days worth of discussions.

18 So again, welcome to all of you. It's good to see
19 you all again, and I would be happy to answer questions.

20 MR. BILLY: Are there any questions from the
21 committee? Hello?

1 MS. KASTER: Can you hear me? Is this on?

2 MS. WOTECKI: Yes.

3 MS. KASTER: This isn't exactly food safety
4 related, but I was curious as to the flavor of the
5 biotechnology discussions with the Europeans.

6 Did you get the feeling that they were working
7 proactively in this area and were interested in alternative
8 opinions to what we perceive as theirs?

9 MS. WOTECKI: Is your question more about the
10 trade implications or about the safety --

11 MS. KASTER: Just whether or not they are open,
12 open to both sides of the safety discussions. Our
13 perception is usually that they are -- that they are not
14 very open to that; that they have kind of made up their
15 minds.

16 MS. WOTECKI: Well, it's been interesting for me
17 because I have participated as the co-lead of the U.S.
18 delegation in the development of the food safety papers.
19 The two groups that -- or actually the three groups that
20 prepared the papers that are dealing with biotechnology
21 tended to be ones that were very technical and it was the

1 scientists and chief scientists and regulators from the
2 participating countries that were participants in those
3 discussions.

4 So the sense there was one of essentially that
5 these are promising technologies. One of the outcomes of
6 the meeting that was held in Edinburgh was the conclusion
7 that as far as the safety of foods that are the products of
8 biotechnology, there were no indications of any safety
9 problems which was a very positive outcome from that
10 meeting.

11 So I think the composition of these groups was
12 such that one would expect that there would have been a more
13 objective review and approach towards it.

14 The Edinburgh conference, though, did have
15 representation from a broad set of organizations with
16 sometimes less favorable views of biotechnology and still
17 they had the outcome that I described; essentially a
18 conclusion that there was not an issue of safety with the
19 products that had yet been -- that had been brought on the
20 market so far.

21 So that was in the area where there was a broader

1 participation in the meeting.

2 The issue, though, that you referred to I think is
3 one of public acceptance, and certainly there remains an
4 enormous amount of skepticism in the European public about
5 biotechnology foods.

6 MR. BILLY: Carol?

7 MS. FOREMAN: It may not be much more than
8 skepticism among the American public about the safety of
9 biotech foods.

10 MS. WOTECKI: Yes.

11 MS. FOREMAN: Cathy, I think, will play such an
12 important role in this. You, Karen and Tom, and I think
13 it's terrific that not just our government has played this
14 very productive role, but that the Department of Agriculture
15 has taken the lead in terms of the food safety discussion in
16 this regard. It hasn't always played exactly that role. I
17 think it's very important and I appreciate it, as does my
18 organization.

19 I continue to be a little concerned about the
20 precautionary principle paper because you have the sense
21 both sides are standing there saying, "I'm not going to go

1 where you want me to go."

2 It seems to me that it might be useful if we
3 could have a -- and it may be that I've missed it -- some
4 statement that says when you have an overwhelming
5 preponderance, since we all know science is never final,
6 when you reach an overwhelming preponderance, then
7 precaution takes a secondary position. But to have some
8 line in the sand, even though it might be a little fuzzy,
9 that says we have reached a point at which all of 100
10 studies or 200 studies go one way and only one goes the
11 other way, or there are none going to the other way, but
12 some question still to be raised, then you might be prepared
13 to move in a particular direction.

14 Where you have 10 percent of the studies that go
15 the other way or 20 percent, I think you've got a very
16 different question and one where even if scientists are
17 comfortable going forward, you're going to have a hard time
18 getting the amount of public confidence that's necessary.

19 Do you see any sense that there might be a
20 willingness to lay out gradations of certainty or confidence
21 levels?

1 MS. WOTECKI: I think that's a very interesting
2 question, Carol. We have not started to talk about any kind
3 of quantification. We have talked about preponderance of
4 evidence, and among the things that I would expect over this
5 coming year as we go through a much more detailed discussion
6 of how CODEX should built precaution into its decisions,
7 again in the context of this risk analysis paper that's
8 under discussion. That may be one of the things that comes
9 up during the discussion.

10 But we so far really haven't done anything in
11 trying to quantify it, and I don't even know if that would
12 be helpful in and of itself because sometimes it depends on
13 what the nature of the problem is in the literature that
14 would give you -- you know, much more weight to a minority
15 opinion.

16 MS. FOREMAN: Yes. Well, I just find that, you
17 know, precaution is one of those words that has -- is in the
18 eye of the beholder. It's like that other "P" word,
19 pornography.

20 MS. WOTECKI: Yes. Yes.

21 MS. FOREMAN: I know it when I see it.

1 MS. WOTECKI: Yes.

2 MS. FOREMAN: But it's -- if somebody could wrap
3 some definitions around it that are understandable by the
4 public, I think it would help.

5 MS. WOTECKI: Well, certainly the objective of
6 what the discussions in CODEX's general principles are, are
7 exactly that; trying to develop a better understanding, a
8 better set of definitions, a better set of overall
9 principles to be applied in risk analysis.

10 MR. BILLY: I would like to add to that in this
11 sense, that I think that as discussions occur about caution
12 or precaution and whether there is a principle or not, I
13 think we don't tease apart how precaution is used by
14 different entities.

15 There is an important distinction, for example,
16 between the decisions that a national government need to
17 make versus the decisions that a commission overseeing a
18 common market like the EU needs to make to have discipline
19 in the common market versus decisions that CODEX needs to
20 make representing the interests of 165 countries.

21 And we tend to jumble all that together and talk

1 about it in a way that I think makes the discussion much
2 more difficult and complex. As the chairman of CODEX, I am
3 urging a series of workshops that, among other things, will
4 allow us to tease all that apart and look at it separately.

5 I mean, the fact is that there is precaution
6 inherent in HACCP, and that industry applies caution in its
7 decisions. So depending on where you want to start, there
8 is caution inherent in most things that are done in the food
9 safety area, and it's case studies that look at that and get
10 understanding about what exists now I think will be
11 instructive in terms of what else might be needed at
12 whatever level.

13 MS. FOREMAN: What's your time frame?

14 MR. BILLY: Within a year.

15 MS. WOTECKI: Yes, I think Tom also makes a very
16 important point, and that is that with respect to how
17 countries make their food safety decisions, that is
18 dependent on the laws and the regulations and the traditions
19 of operation that they have within their countries.

20 In the U.S., we've gone back and done as part of
21 our background work for both the general principles meeting

1 as well as this OECD activity a very detailed paper that
2 outlines how precaution is built into our foods safety
3 legislation and regulations.

4 So in those countries that have that strong legal
5 infrastructure -- strong legal structure, as well as the
6 infrastructure, the use of precaution in the application of
7 some additional principle may not be as important.

8 The question is then in other countries there may
9 be a need for something like that. Throughout this whole
10 discussion part of what we've been saying is it's perfectly
11 fine for the European Commission to elaborate this and to
12 have its discussion with its member states. They're, you
13 know, working towards developing a stronger federation, a
14 stronger, more unified approach towards their food safety
15 regulation and food safety systems. So it's perfectly
16 appropriate for them to be having these internal
17 discussions.

18 MR. BILLY: Caroline?

19 MS. DEWAAL: Thank you.

20 I'm interested though in the application of not
21 only the underlying statutes, but the application of some

1 more modern additions to the statutes, particularly within
2 the USDA reorganization statute which requires every
3 regulatory decision to go through at least two levels of
4 cost benefit analysis and risk assessment; one at the
5 department level and one over at OMB.

6 And I guess I'm troubled that it's taking the
7 department so long to act on actual, not speculative public
8 health risks or new product issues, but on existing hazards
9 in the food supply. And I think the example is listeria
10 where it's taking at least two years to develop kind of a
11 regulatory response to that hazard.

12 So I guess I'm wondering whether in your analysis
13 you have looked at some of the hurdles to precaution that
14 may have been put in place in recent years to USDA and FDA
15 application of the underlying statute.

16 MS. WOTECKI: Yes, we did. In fact, there is a
17 section in the paper that deals with socioeconomic concerns
18 and it does mention the fact that USDA does have this
19 requirement. FDA and EPA do not.

20 By the same token though, I don't think that FSIS
21 was hampered by economic assessment in responding to the

1 listeria outbreak. If you look at what the agency did by
2 immediately requiring companies to review their HACCP plans,
3 did not require any economic analysis, by issuing guidance
4 on environmental testing, did not require an economic
5 analysis. The agency moved very quickly to provide
6 information to the public; did not require an economic
7 analysis.

8 So, you know, from that perspective I thought that
9 FSIS took very quick and appropriate actions that were not
10 impeded by any additional requirements as far as new
11 rulemaking went.

12 MS. DEWAAL: But none of those requirements are
13 mandatory on the industry nor are they uniform.

14 MS. WOTECKI: Mm-hmm.

15 MS. DEWAAL: So what the agency -- and I
16 understood from conversations with the administrator -- felt
17 like they could not proceed in a regulatory manner to make
18 mandatory uniform requirements on the industry without --
19 without being able to -- without having the data to meet the
20 requirements of both your internal office, which applies
21 only to FSIS, but also OMB's requirements, which do go both

1 to EPA and to FDA.

2 So I mean those requirements are actually slowing
3 down rulemaking. They may not be slowing down the kind of
4 voluntary efforts or the reassessment which, you know, we
5 don't know yet what the impact of that reassessment was or
6 how uniformly it was handled by the industry.

7 So I think that you need to look at some of the
8 hurdles to precaution because we're not confident that
9 precaution is being fully implemented, even if it is a
10 statutory mandate, because of these delays.

11 For example, we had a discussion within this
12 group, I think, at the last meeting on the impact of those
13 particular requirements on emergency rulemaking authority at
14 the department, and you -- it was my recollection that the
15 answer was that even emergency rulemaking would have to go
16 through all of these hurdles that the agency simply won't
17 pursue.

18 MS. WOTECKI: Well, I understand the point that
19 you're making. We've certainly got a discussion of listeria
20 that's going to be on the agenda today, and certainly some
21 of these points might also be appropriate at that point in

1 time.

2 I do think though that any move towards rulemaking
3 would have required the collection of information beyond the
4 economic analysis in order to move forward. So certainly I
5 think we need to be cognizant and aware of the fact that
6 this can be something that is difficult in order to collect
7 the information and do those analyses, and it's one of the
8 areas as well that we might want to seek opinion at some
9 point from this committee about how to improve those risk
10 assessments -- those cost benefit analysis.

11 MS. DEWAAL: But also the impacts on the
12 precautionary principle because I am concerned that the U.S.
13 may be representing that we have a precautionary principle
14 which is in fact stronger than what is being practiced in
15 this country.

16 So I just would ask you to really consider the
17 impact of those, and if adjustments need to be made to those
18 so the agency can respond to immediate public health
19 threats, that that case is made to Congress and to others.

20 MS. WOTECKI: Good point.

21 MR. BILLY: Okay. Rosemary.

1 MS. MUCKLOW: One very brief question. I would
2 just like to be clear what the U.S. position is.

3 Do we think as a nation that we need another food
4 safety organization, or is CODEX it? Do we really want to
5 try to wrap what you are doing with the GS-8 and so on into
6 CODEX?

7 MS. WOTECKI: Well, at this point, Rosemary, we
8 are certainly working to develop the U.S. position that's
9 going to be taken into the meeting. I can tell you that
10 among those of us who worked on the OECD activity, the
11 development of these five papers, our conclusion has been
12 that CODEX is the international standard setting body. We
13 think that any issues and concerns that have come up in the
14 working groups that we have been in within OECD about
15 CODEX's slowness, as is mainly the problem that's pointed
16 to, could be remedied by additional measures, and we would
17 not want to see anything that would be set up that would
18 compete against CODEX for resources.

19 So that's our conclusions. The U.S. position is
20 in development.

21 MR. BILLY: Jim?

1 MR. DENTON: Quick comment about the precautionary
2 principle that has been of concern for me since I first
3 became aware of this midyear last year. I've been following
4 that entire issue.

5 I think what you and Carol say is exactly right.
6 Precaution is something that is threaded throughout our
7 scientific process and regulatory process in the United
8 States. It's our nature to approach things in that manner.
9 We make every effort to ensure that every decision that we
10 make is based on the most complete information that we can
11 possibly have.

12 Now, my great concern about the precautionary
13 principle is that it is a very well crafted attempt to
14 require that we prove a negative, and in the scientific work
15 that I live in that is not possible to do. We do everything
16 we can to evaluate every potential hazard that we see from
17 the application of any technology, but we can never prove a
18 negative, and that's the thing that concerns me the most.

19 MS. WOTECKI: That's a good point.

20 MR. BILLY: Okay. Thank you very much. We will
21 consider that again this subject area as potential area of

1 interest to the committee later in the agenda.

2 Let me now shift to the agenda and I will briefly
3 run through it. If you will take out the agenda and look at
4 it, this morning we're going to have several briefings in
5 the same manner we have approached working with the
6 committee in the past; that is, to provide updates on
7 important areas of work within the agency, and obviously
8 provide an opportunity for the committee to raise questions
9 or make comments.

10 We then shift to a series of issues starting just
11 before lunch, an industry petition on changes to the HACCP
12 regulation; the issue of additional species being covered by
13 mandatory inspection and a HACCP approach.

14 I mentioned earlier Floyd Horn or one of his
15 associates will be briefing us on ARS food safety research.

16 Then an update on the issues surrounding E-coli 0157:H7, as
17 well as recent developments in the area of listeria
18 monocytogenes.

19 With the cooperation of the committee then this
20 evening, we have a series of evening subcommittee meetings
21 to deal with the specific issues and hopefully to receive

1 from the subcommittees specific recommendations that we can
2 then forward to the secretary.

3 If you turn to tomorrow then, we continue with
4 report from the subcommittees and obviously discussion of
5 the subcommittee recommendations by the full committee.
6 That enables everyone, including those that weren't able to
7 participate in the subcommittee meeting, to have their input
8 and to shape any of the recommendations that go forward from
9 the committee as a whole.

10 And then after lunch a couple more briefings and
11 update regarding the National Microbiology Committee by
12 Karen Hulebak; a briefing on policy issues related to
13 campylobacter des juene. This is an area that the committee
14 has dealt with previously and made a request of the micro
15 committee, and we need to look at that and see what, if
16 anything, the committee would like to do further in that
17 area. And then a brief update in the area of meat and
18 poultry inspection and food safety at retail.

19 We would like to wrap it up then with getting your
20 thinking about remaining issues, and priorities in that
21 regard. If there are particular issues based on the

1 discussions over the next day and a half that you think we
2 need to spend more time on some of the current issues or new
3 issues, you need to share those with us and we'll then use
4 that as a basis for organizing subsequent meetings.

5 Included in that discussion from two to three
6 tomorrow will be a report on noncompliance reports. Carol
7 Foreman at the last meeting raised a concern about an
8 analysis that was made of a certain number of plants that
9 have received noncompliance reports. We developed a summary
10 response and we also will be providing to you a little later
11 a one-page translation of that report that I hope will make
12 it clear what it means and how you should interpret the
13 information that's there. And we will cover that report
14 during that session from two to three tomorrow.

15 Obviously, both days provide opportunity for
16 public comment. If anyone is interested in providing
17 comment to the committee are encouraged to do so. You need
18 to register and inform people at the registration desk of
19 your interests and then we will call on you during the time
20 that's provided.

21 Are there any comments or questions from the

1 committee regarding the agenda?

2 (No response.)

3 MR. BILLY: Okay. Then one last thing I'm going
4 to cover is the committee renewal process. As I think all
5 of you know we are now seeking nominations for membership on
6 this committee, and we're seeking nominations from
7 individuals that represent state government, industry,
8 consumer organizations and academia. And nomination
9 packages are due by June the 30th.

10 Now, as current members, all of you are eligible
11 to serve up to three successive terms. So if any of you are
12 interested in renewing your membership, what you need to do
13 is just provide us a short letter or memo indicating your
14 desire to be renewed on the committee, and we encourage you
15 to give that serious consideration.

16 It is important to have, I believe, a significant
17 amount of continuity on the committee if you're working on a
18 series of issues to provide a thread of knowledge and
19 understanding and get the best value in terms of your
20 efforts working with the agency and the department. So I
21 urge you to give it serious consideration.

1 And if you are aware of others that you believe
2 might serve on the committee and play a useful role, contact
3 them and let them know about this opportunity and encourage
4 them to express their interest or support them through your
5 own efforts.

6 Any questions about the committee renewal process?

7 (No response.)

8 MR. BILLY: Thanks.

9 All right, what I would like to do then is move to
10 the first briefing item, which is a briefing on HACCP-based
11 inspection models project, or HIMP. I'm not sure I like
12 that acronym, but nonetheless that's what it is. And Mike
13 Grasso who is our project manager will provide the briefing
14 to you. You have a briefing paper in your materials that
15 were provided and at this time I'd like Mike to come
16 forward.

17 MR. GRASSO: Good morning. The briefing material
18 is in tab No. 5. That's what I have been instructed to tell
19 you.

20 The document that I provide on a monthly basis on
21 the status support, I'd like to actually walk through that,

1 and if you have any questions feel free to stop me and I'll
2 explain.

3 The first document, what we've done this past
4 month, is actually taking a step backwards so that if
5 somebody wants to read a two-pager, and that's what this
6 two-pager is, it will tell you when this project started,
7 kind of like where we have been and where we're going. So
8 that's the HACCP-based inspection models project update.

9 The attachment No. 2 is the most recent key fact
10 that we've provided at our last public meeting, and that
11 gives you a general overview of the project.

12 Attachment No. 3, which was presented at the
13 public meeting by Research Triangle Institute, was the
14 report on the 16 broiler plants.

15 For your information, I need to maybe take you
16 through what baseline is so that you have a better
17 understanding, and then what the transition phase is and the
18 models phase is.

19 On the broiler side, when we talk about baseline,
20 we need to -- we need to have measured the accomplishment of
21 the current inspection system, so we had 16 plants, 16

1 broiler plants that had volunteered. RTI was the contractor
2 assigned to collect the data, and this report reflects the
3 results of those 16 plants.

4 Number one, on the micro side for the generic E.
5 coli samples and also for the salmonella samples, and on the
6 organoleptic side are the results of the carcass by carcass
7 verification inspection on 2,000 per plant.

8 I'm going to just quickly take you through the
9 document, if I may.

10 MS. HANIGAN: Excuse me. Can I ask a -- my
11 attachment 3 does not show that. My attachment 3 is a chart
12 on turkeys, so I'm having difficulty -- that's what our
13 attachment 3 looks like.

14 (Aside.)

15 MR. HANIGAN: Can you start from what we have in
16 attachment 3?

17 VOICE: Attachment 3 is young turkey time line.

18 MR. GRASSO: Okay. Flip to the other one. Flip
19 it. It's in the back.

20 MR. GRASSO: Do you have this? Yeah, it's
21 attached to that. No?

1 ALL: No.

2 MS. HANIGAN: That's young turkey time lines that
3 are attachment 3.

4 MR. GRASSO: Oh, okay.

5 MS. HANIGAN: If you look at tab 5 in your book,
6 that's what we have.

7 MR. GRASSO: Okay, we'll get it to you right now.

8 MS. HANIGAN: Can you start from the top then?

9 (Pause.)

10 MS. MUCKLOW: Mr. Billy, might we go ahead with
11 the other?

12 MR. BILLY: I think what I would like to do, with
13 the committee's indulgence, is to postpone this briefing
14 until we can get the appropriate material into your hands so
15 that it makes sense.

16 VOICE: Okay, we have it now.

17 MR. BILLY: Oh, good.

18 (Pause.)

19 MR. GRASSO: Okay. Are we on this yet?

20 MR. BILLY: Which is the second page of what was
21 just provided to them?

1 MR. GRASSO: Right.

2 MR. BILLY: Okay. Go ahead.

3 MR. GRASSO: This was the document that was handed
4 out at the last public meeting on the models project, and
5 this was the presentation by Research Triangle Institute on
6 the results of the baseline data collection of the 16
7 broiler plants. This report is broken up into two parts,
8 the organoleptic side and the micro side. The micro side
9 was the 300 generic E. coli and the 300 salmonella samples
10 that were taken in each plant, and the organoleptic side was
11 the 2,000 carcasses that were selected in each plant.

12 Taking you through the document, you will see what
13 I just said is the overview. The next page is the actual
14 names of the plants and the location in which RTI collected
15 the data. The following page actually lets you know
16 specifically how the organoleptic activities were done as
17 far as the antemortem, the review process, examining 80
18 birds per day per shift over a five-week period of time
19 until we had 2,000 carcasses, and also looking at the
20 condemned birds, same amount, 2,000 carcasses.

21 There is the breakdown on the results on the

1 antemortem on the young chicken plants when the interview
2 process took place. The next page gives an indication on
3 looking at the pass birds before they went into the chiller
4 by RTI, what percent were food safety diseases, what percent
5 was the zero tolerance, and the 98.9 percent was OCP
6 conditions.

7 The next page, page 6, actually starts to identify
8 all of the conditions themselves and the description of the
9 conditions that Research Triangle Institute veterinarians
10 used to record the data on the organoleptic study, and
11 that's on page 6 and 7.

12 On page 8 you start to see the percentages of
13 defects within the carcasses for the individual defect, and
14 that's on page 8 and 9.

15 On page 10 you see the results of the condemned
16 samples, the percentages where no condition was found,
17 whether it was a localized condition or a generalized
18 condition within the condemned barrel.

19 Page 11 lays out specifically how we did the micro
20 testing. In the plant we used a whole bird rinse at post-
21 chill and we collected 50 samples a week over a six-week

1 period of time. We split the rinse for E. coli and for
2 salmonella. RTI contracted with Silica Labs to run the
3 analysis. All of the samples were sent there overnight
4 delivery and all the results were sent to RTI.

5 Page 12 indicates results on the salmonella side
6 and page 13 indicates the results on the E. coli side.

7 On the micro side the measurement of
8 accomplishments were that the plant meet the current
9 regulatory requirement.

10 Any questions on the RTI report?

11 MS. MUCKLOW: Mike, did Silicon also do the
12 salmonella results?

13 MR. GRASSO: Yes. They did both.

14 MS. MUCKLOW: That's not in here, is it?

15 MR. GRASSO: Yes.

16 MS. MUCKLOW: I missed that. Oh, there they are.

17 MR. GRASSO: They actually had a real good system.
18 Occasionally they actually did set up spikes outside of the
19 plant that would go to Silica Lab as a quality control
20 measure to make sure that Silica Lab was doing the proper
21 job, and occasionally they also sent split samples to

1 another quality control lab to measure the performance of
2 Silica Labs.

3 Now, right in your book now -- yes?

4 MS. FOREMAN: Could I just clarify? Baseline data
5 represent what's happening in the plant before the HIMP
6 project started?

7 MR. GRASSO: Correct.

8 MS. FOREMAN: That's the way it finally ended
9 under HACCP but without any changes in the system as
10 represented by the HACCP models project?

11 MR. GRASSO: Correct.

12 MS. FOREMAN: Okay.

13 MR. GRASSO: If you think in terms of the project,
14 really actually think in terms of three parts. Baseline is
15 the current system that's out there and the measurement of
16 the accomplishments of that system. We used the baseline
17 results, specifically on the organoleptic side, to establish
18 the performance standards.

19 MS. FOREMAN: Baseline represents what's going on
20 in all plants that are not part of the models project?

21 MR. GRASSO: Correct.

1 MS. FOREMAN: And what was happening there before
2 the models started?

3 MR. GRASSO: Correct. And as I talk a little bit
4 now, I'm going to talk about transition, okay. Transition
5 is the change, when change occurs within the plant.

6 MS. FOREMAN: I just want to clarify a couple of
7 other things before you go to that.

8 The ingesta is an OCP in all plants now?

9 MR. GRASSO: Correct.

10 MS. FOREMAN: And before HACCP?

11 MR. GRASSO: It's the same.

12 MS. FOREMAN: Thank you.

13 MR. GRASSO: The regulatory requirements now has
14 that ingesta as an OCP.

15 MS. FOREMAN: Thank you.

16 Yes?

17 MS. DONLEY: On that note, can I -- Carol started
18 my question. Can you explain when and why ingesta was
19 changed from a food safety issue to an OCP, and the why and
20 the when?

21 MR. GRASSO: Within the project, we didn't change

1 it. In poultry, that's the way it is.

2 MS. FOREMAN: How long has that been the case?

3 MR. JAMES: Forever. Forever is the short answer.

4 Under the --

5 MS. FOREMAN: Since 19?

6 MR. JAMES: There was never a distinction made in
7 the product standards between food safety and OCP for the
8 old acceptable quality limits or AQL, nor for the more
9 recent finished product standards.

10 For the purposes of this study, we did not attempt
11 to make any change in the way that ingesta was handled.
12 It's collected and for the purposes of this project it
13 remains in OCP condition.

14 MS. FOREMAN: Oh, I just want to -- can I piece
15 this out a little bit, please?

16 In a plant before HACCP went into effect, if an
17 inspector saw ingesta on a bird, what happened?

18 MR. JAMES: Ingesta on a bird, if it occurred on
19 the inside of the body cavity, that bird was reprocessed.
20 If it occurred on the outside of the bird on intact skin
21 surface, the bird was permitted to go down the line.

1 MS. FOREMAN: So inside, reprocessed; outside, no
2 change, nothing happened?

3 MR. JAMES: That's correct.

4 MR. BILLY: Carol, I'm going to pick on you but it
5 applies to all the committee members.

6 MS. FOREMAN: I'm sorry.

7 MR. BILLY: We need to move the microphone right
8 in front of you so that the people --

9 MS. FOREMAN: I'm sorry.

10 MR. BILLY: -- in the back can earlier.

11 MS. FOREMAN: Earlier, earlier on I breathed hard,
12 and I heard it.

13 (Laughter.)

14 MR. BILLY: You didn't want that misinterpreted.

15 (Laughter.)

16 MR. BILLY: Did you have another point you wanted
17 to make?

18 MR. GRASSO: I should be the only one breathing
19 heavy at this point.

20 (Laughter.)

21 MS. FOREMAN: But since we're into breathing

1 heavy, let's talk about air sacculitis.

2 (Laughter.)

3 MS. FOREMAN: OCP?

4 MR. GRASSO: OCP one.

5 MS. FOREMAN: Before HACCP was instituted, how was
6 it treated?

7 MR. JAMES: Again, before HACCP was implemented,
8 different diseases and conditions were all considered -- we
9 didn't make a distinction between what was food safety and
10 what was not. For purposes of this study, we have called
11 air sacculitis an other consumer protection disease, and
12 OCP, I'll just give a 30-second description of what that is.

13 If the disease or the condition does not cause
14 illness in humans, the organism which is causing -- the
15 disease in the bird does not cause disease in humans, then
16 it is OCP and not food safety. Some diseases in these birds
17 may be caused by an organism that would could disease in
18 people but not through a foodborne route, and so the
19 criteria for being food safety has to be that it will cause
20 disease through a foodborne route.

21 MS. FOREMAN: Talk a little bit more about not

1 through a foodborne route. What do you mean?

2 MR. JAMES: If we were to be exposed to the
3 organism perhaps in the same way that an animal was through
4 exposure through an open wound, for instance, or get a blood
5 stream infection through some route, or a respiratory
6 illness, we might get the same diseases that the animals get
7 from that same organism.

8 But what we limited food safety diseases and
9 conditions to were those that were caused if they were
10 ingested as part of the product.

11 MS. FOREMAN: So air sacculitis might be a health
12 hazard to workers in a chicken plant?

13 MR. JAMES: There is a remote possibility for one
14 or two of the different diseases or organisms that cause air
15 sacculitis in birds, that's a possibility.

16 MS. FOREMAN: But no known case of anybody ever
17 having become ill from eating meat from a chicken that had
18 air sacculitis?

19 MR. JAMES: I can't go quite that far, no known
20 case ever in any human being.

21 MS. FOREMAN: Okay.

1 MR. JAMES: But --

2 MS. FOREMAN: You're not aware of anything.

3 MR. BILLY: Just as a precaution.

4 (Laughter.)

5 MR. JAMES: I would say that using the HACCP
6 principle rather than the precautionary principle is that we
7 do not think it is reasonably likely to occur.

8 MS. FOREMAN: I just want to go back again for one
9 minute, I'm sorry to take time, but I want to clear this up,
10 historically in the meat inspection system in a poultry
11 plant birds with air sacculitis were passed?

12 MR. JAMES: Once the air sacculitis condition was
13 addressed, the birds had not proceeded on to an septicemic
14 or toxicemia condition, the birds were passed.

15 MS. FOREMAN: And under HACCP birds with air
16 sacculitis, if it hasn't proceeded into septicemia, are
17 passed?

18 MR. JAMES: Yes.

19 MS. FOREMAN: And under the models project?

20 MR. JAMES: The same, same standards.

21 MS. FOREMAN: Same.

1 MS. HALL: Could I ask a question, please?

2 MR. BILLY: Cheryl and then Dan.

3 MS. HALL: Could you tell what organisms cause air
4 sac. in humans in the plant that causes air sac. in poultry?

5 MR. JAMES: Well, actually, I didn't come prepared
6 with my notes to discuss the different organisms, but most
7 of the organisms that cause air sacculitis in poultry are
8 probably not going to cause -- of course people don't have
9 air sacs., but won't cause a respiratory condition in
10 people. It's the E. colis, for instance, that are infective
11 for birds and causing air sacculitis generally we do not
12 believe will cause a respiratory disease in people.

13 Experience has shown through the decades where we
14 have had people working on lines that our workers, our plant
15 workers don't come down with respiratory diseases when
16 exposed to heavy air sacculitis in flocks that come through,
17 which is anecdotal evidence that these diseases and
18 conditions are not readily transferrable to people under
19 these occupational conditions.

20 I think also the literature will support, and I'd
21 be happy to go into that in more depth probably outside of

1 this meeting, that those organisms that are causing air
2 sacculitis in the birds are not -- not dangerous to humans
3 or are not reasonably like to be dangerous to humans.

4 I will throw out this one caveat that we -- the
5 same that we mentioned at the March 30th meeting -- we are
6 ready, very ready to receive any new information that comes
7 to light or any information that we may have passed over
8 regarding any of these diseases and conditions which are
9 currently classified as food safety, or OCP, which may cause
10 us to change the category therein because science marches on
11 and as more information is available to us that would
12 indicate to us that we have some of these in the wrong
13 place, we will be happy to reconsider those.

14 MS. FOREMAN: I'm sorry, one other, if I could
15 just follow up. May I?

16 The young broilers, the incidence of disease is
17 generally less than one percent?

18 MR. JAMES: Condemnations are less than one
19 percent.

20 MS. FOREMAN: Condemnations for disease are less
21 than one percent.

1 VOICE: Point five?

2 MR. JAMES: Point six, I think, was the last
3 number we had.

4 MS. FOREMAN: Point six?

5 MR. JAMES: Point six percent.

6 MS. FOREMAN: Okay. I'm a little concerned about
7 the word "condemnations" for disease. That might suggest
8 that diseased birds were not being condemned and that the
9 rate might be higher. Do I -- do I misunderstand?

10 MR. JAMES: Actually, what I intended to say was
11 that we condemn birds for disease six-tenths of one percent
12 those have come through. There are other birds which have
13 some sort of disease or condition on them, which we then
14 trim or handle in some manner as to make the carcass then
15 able to be passed, which would raise that percentage of
16 diseased birds higher, but they don't all deserve
17 condemnation.

18 MS. FOREMAN: So it might be possible that you
19 would have birds coming in to a plant, a flock that had --
20 that where 30 or 35 percent of the birds had air sacculitis?

21 MR. JAMES: That is a possibility, yes.

1 MS. FOREMAN: And those would be the birds
2 condemned, that less than one percent that were condemned
3 would be condemned because it had proceeded into septicemia
4 or toxicemia?

5 MR. JAMES: Yes, and birds -- flocks that have
6 that high a level of air sac. probably will have a much
7 higher percentage than one percent condemned. That .6
8 percent figure is a national figure, and it is not randomly
9 distributed. Birds with higher disease incidence have a
10 higher proportion of the flock condemned.

11 MS. FOREMAN: Can somebody tell me what percentage
12 of birds, young broilers have air sacculitis, just generally
13 speaking?

14 MR. JAMES: I cannot give you that figure. What
15 we keep track of on a national basis is condemnations and
16 not disease incidents. So I think individual broiler
17 companies would probably be in a much better than FSIS to
18 give you those figures.

19 MS. FOREMAN: Would somebody tell me if there is
20 an article in the literature somewhere where I can find that
21 out, any of you in the chicken business?

1 Well, FSIS doesn't keep that. How about APHIS?

2 MR. JAMES: We will see what we can do to find
3 some information for you.

4 MS. FOREMAN: Thank you.

5 MR. BILLY: Dan?

6 MS. HALL: Could I -- I'm sorry. Could I follow
7 up on that?

8 MR. BILLY: Yes.

9 MS. HALL: Could I state that from the poultry
10 industry's findings E. colis are a very specific on the type
11 of problems they would cause even in chickens, so it's very
12 doubtful that they would cause problems and respiratory
13 problems in humans, so just for the record.

14 And also that air sac. birds are not just passed
15 down the line. There are three different ways of working
16 those birds. So it is not that if you find an air sac. bird
17 on line that it becomes part of the food chain. There are
18 three different ways that those are worked out rather than
19 just condemned, but also condemned.

20 MS. FOREMAN: Oh, will you state what the three
21 ways are?

1 MS. HALL: If it's very minor air sac., they are
2 vacuumed and chlorinated water washed so that there is no
3 trace that's considered a localized condition.

4 If there are more severe, they are -- if they have
5 inner clavicular air sac, the upper part of the body is not
6 allowed to be taken. This is -- now, these are healthy
7 looking birds, no septic signs, no toxic signs on the
8 carcass. If they are septic and toxic, they are condemned.

9 MS. FOREMAN: But is that plant quality control or
10 is that regular authority?

11 MR. GRASSO: The second phase that she was talking
12 about is a salvage operation.

13 MS. HALL: Mm-hmm, salvage operation.

14 MR. GRASSO: Whether they would be able to trim
15 away the affected area.

16 MS. JOHNSON: I do think it's important to note
17 that in all of these procedures that Cheryl identified USDA
18 does go, and even the process that's on line, USDA still has
19 another check of the bird before it goes out. So it is --
20 there are regulatory review of the meat and the cut and the
21 whole works.

1 MS. HALL: How they are held and every part of it
2 is regulated.

3 MR. BILLY: Okay, Dan?

4 MR. LAFONTAINE: I think I have been overtaken by
5 events. No, I will be making two points.

6 Carol, you mentioned a couple times before and
7 after HACCP in relationship to this discussion. And correct
8 me if I'm wrong, but the antemortem and the postmortem part
9 of the mission of FSIS was essentially untouched by the
10 implementation of HACCP.

11 MR. GRASSO: Correct.

12 MR. LAFONTAINE: So what we are in now in this
13 HACCP-based inspection models is aside or completely you may
14 say essentially separate from implementation of HACCP. I
15 just want to clarify and hopefully in your mind and others
16 that there is two channels that FSIS is going down in this
17 regulatory approach.

18 The other thing on air sac --

19 MS. FOREMAN: May I -- I thought I -- now I'm not
20 sure I understand. I thought that it was clear that some
21 things with regard, for example, to antemortem and

1 postmortem inspections were not changed by HACCP.

2 MR. LAFONTAINE: That's correct. I'm not --

3 MS. FOREMAN: Okay. All I wanted to know is that
4 what's happening right now in these plants is not the models
5 plans in some instances. Is that different from anything
6 happening in all the other broiler plants in the United
7 States right now or what -- or anything different than what
8 was happening in them before HACCP was implemented? Is that
9 not the case?

10 MR. LAFONTAINE: Let me restate it again, maybe I
11 am not following you.

12 In the incremental implementation of HACCP in
13 January '98, '99 and 2000, that requirement and the
14 implementation thereof essentially left
15 antemortem/postmortem untouched.

16 So in this HACCP-based models the baseline, as was
17 stated earlier, does represent these 16 plants, but it also
18 could be in principle expanded to represent the entire
19 industry as they are operating now under traditional
20 inspection.

21 MS. JOHNSON: Mr. Billy, can I ask Mike a question

1 about the baseline just real quick?

2 Now, it's my understanding with the broiler plants
3 you have the 16 plants and you have the national standard
4 established for the baseline. Plants that wish to come on
5 the HIMP program now would come under without having the
6 baseline because you've now established a national baseline.

7 So it was your intend to follow up on Dr. LaFontaine. This
8 baseline does represent the national for the broiler
9 industry; is that right?

10 MR. GRASSO: That's our intention. We have taken
11 the -- we call it the 75th percentile or the twelfth
12 position to establish the performance standards to move
13 forward with the rulemaking that would be for all broiler
14 plants.

15 I think I would like to make a comment though on
16 trying to get to your issue and I think for clarification is
17 that as Dr. LaFontaine that with the initiation of HACCP it
18 had nothing to do with the slaughter line itself, okay, but
19 air sac. was measured and from the early eighties, and
20 correct me if I'm wrong, via finished product standards, and
21 there was a tolerance, I believe, of three birds in ten that

1 could have had air sac. identified. So that's a 30 percent
2 tolerance under the finished products standards.

3 In the models project, there is a difference
4 between the traditional plant that's out there today and a
5 HIMP plant is the performance standards that they have to
6 meet is no longer three in ten; it's 1.7 percent or two in
7 60, so there is a distinct difference between a HIMP plant
8 and a traditional plant as it relates to the performance
9 standards that that plant has to meet.

10 MS. FOREMAN: What's the performance standards in
11 the HIMP plant that you cited?

12 MR. GRASSO: OCP-1 is 1.7, that's the twelfth
13 position. Conversion to a whole carcass is two in 60.

14 MS. FOREMAN: Thank you.

15 MR. BILLY: Dan?

16 MR. LAFONTAINE: A couple other points I wanted to
17 make.

18 On this air sacculitis, and this principle can be
19 carried over to other infectious diseases, although
20 currently it's under OCP, not a food safety like Dr. James
21 explained, it still is aesthetically unacceptable to have

1 birds enter the marketplace, and I use the word
2 "unwholesome," and that is part of the charter of FSIS is
3 safe, wholesome animals and birds, meat and poultry.

4 So it is important to recognize that this is -- it
5 is important to recognize this is regulatory issue, not just
6 strictly quality control because the current laws we are
7 operating under require wholesome birds and animals.

8 MR. BILLY: Nancy?

9 MS. DONLEY: I just have one quick question.

10 Air sacculitis, a bird that has air sacculitis is
11 considered a healthy bird?

12 MR. JAMES: A bird with air sacculitis has a
13 respiratory disease, and the affected tissue must be
14 removed. Healthy tissue can then be passed for consumption.

15 MR. BILLY: Unless it's septicemia.

16 MR. JAMES: Right. As I said, healthy tissue can
17 be passed. If the air sacculitis has caused a systemic
18 change in the bird, the bird is condemned, but that is a
19 principle that has been in place since OT-6, that affected
20 portions of a carcass by a disease or condition can be
21 trimmed away and if the rest of the carcass is healthy, the

1 rest of the carcass can be passed.

2 MS. DONLEY: I guess where it gets very confusing
3 to, you know, the general public, if you will, is that these
4 inspection models were always presented as being based on
5 young, healthy and uniform animals -- I'm reading that right
6 from here.

7 But then when you hear about these animals that
8 are involved in these projects, they can have very high
9 sickness rate, that's why I asked if air sacculitis is
10 considered in an illness in an animal, that to me as the
11 public doesn't sound like a healthy animal.

12 MR. BILLY: Dan. Dan.

13 MR. LAFONTAINE: Kind of a -- I'm trying to answer
14 for FSIS, but I think I can give a -- young broilers in
15 general, young swine, in today's marketplace are young and
16 healthy across the board. And at least in air sacculitis
17 with the poultry that I'm involved with, you will run into
18 pockets where a particular house or farm had a respiratory
19 problem, and you can get a very high percentage
20 periodically. But across the board the percentage of birds
21 that have come in with air sacculitis or any other disease

1 process is quite low.

2 So what I am saying is the young, health, uniform
3 is an accurate statement, but there is, like any other
4 situation, there is exceptions to that, and air sacculitis
5 is one of those exceptions. So it is an honest statement
6 on the part of FSIS to say young and healthy as a general
7 statement.

8 MR. GRASSO: One comment I would like to make on
9 that is that what we have noticed in the HIMP project so
10 far, due to the fact that the performance standard, the 1.7
11 percent is extremely low, the awareness by the plants has
12 gone up extremely high, so that they are taking a much
13 better look at the growers, what they are receiving so that
14 they get more healthy animals.

15 The other comment is that air sac. is usually has
16 to do with seasonality, usually in the colder months.

17 MR. BILLY: Okay, I've got Alice, and then
18 Caroline and then Cheryl.

19 MS. JOHNSON: When we talk about air sac. and USDA
20 inspection and the whole works, I think one thing that we
21 may not be aware of is that the point where the inspection

1 is being done back in the 1958-1959, I'm talking for turkeys
2 and help me with the broilers as well, most everything was
3 whole birds. And it was very important at what point you
4 looked at these birds, you were looking at whole birds.

5 The industry has evolved both, I think, the entire
6 poultry industry, and the majority of even our turkeys are
7 cut up now, got through further processing and not the whole
8 bird issue.

9 So I think the way that the air sac. viewed back
10 in the fifties, you know, things are changing. It's still
11 what Mike is talking about here is the baseline, is at one
12 point in which the bird then goes on to several different
13 other places, and there is USDA inspection throughout that
14 process.

15 So, you know, if we truly look at what a new
16 inspection system might want to offer, and I know this is
17 the whole concept in a lot of the HACCP, is, you know, let
18 the company do what's necessary, and take control of the
19 process with FSIS verification, and that's where, I think,
20 the agency is trying to go, and we have to remember that
21 this is a different bird than it was when the original

1 regulations were put together, and there is the
2 wholesomeness issue and going to the consumer, but it may be
3 that there is a more appropriate place to make that
4 determination now than there was back in the fifties because
5 of the type of bird that was going to the consumer.

6 MR. BILLY: Okay. Caroline.

7 MS. DEWAAL: Thank you.

8 I did, Mike, having sat there through a whole day
9 discussion on this, I want to tease out one issue that I'm
10 not sure the other committee members are aware of.

11 On these OCP localized conditions, is that the
12 same as the defect rate today?

13 So in other words, it's as one hair or more of any
14 size. Is that what the defect rate is, or one feather?

15 MR. GRASSO: No. In traditional plants today,
16 they use finished product standards which have tolerances
17 involved. So just say like on a hair, to actually score a
18 defect of finished product standards I believe you need 26
19 hairs to score it as a hair.

20 RTI, their role was not to use finished product
21 standards, their role was to identify on the carcasses the

1 defects that were prevalent period.

2 MS. DEWAAL: And so the new performance standards

3 --

4 MR. GRASSO: Yes.

5 MS. DEWAAL: -- that are being used in the HIMP
6 plant, are those the old finished product standards or are
7 those new standards --

8 MR. GRASSO: New standards.

9 MS. DEWAAL: -- based on what the actual
10 performance is in the baseline?

11 MR. GRASSO: Correct.

12 MS. DEWAAL: Okay. And my final point here
13 because I think this is a very important point in looking at
14 the HACCP models, so the -- are any of the new performance
15 standards that the HIMP plants are going to have to meet,
16 are any of them worse than the old finished product
17 standards, or less stringent?

18 MR. GRASSO: I believe we did a --

19 MS. DEWAAL: I mean, the 26 hairs.

20 MR. GRASSO: -- side by side and I believe -- I
21 don't have the document in front of me, but I believe in

1 every category, except maybe one, the HIMP standards are
2 tighter. And I just -- I think there is one.

3 MS. DEWAAL: And just to nail this down, like for
4 hair, the old standard was 26 hairs.

5 MR. GRASSO: Right.

6 MS. DEWAAL: And under this system it's one hair.
7 A carcass with one hair would violate this standard?

8 MR. GRASSO: Right. Like with feathers, I believe
9 you needed five to score it as a feather?

10 MR. CHURCH: Right. There was a certain number of
11 feathers of a certain size. I don't have that document in
12 front of me and have been out of the plant too long. I can
13 remember what precisely the numbers are. But as Mike said,
14 we are now counting the defects that are there, and the
15 tolerance was set on those.

16 It bothers me that I can't remember the one
17 exception to that rule, but we'll get back with you on that.

18 MS. DEWAAL: Okay.

19 MR. GRASSO: I wasn't asked that.

20 MS. DEWAAL: It wasn't. Okay, I would be
21 interested to know that. But just to -- again, so hair,

1 41.80 percent of the carcasses had one hair, but those
2 weren't violating the finished product standards, they just
3 had one hair?

4 MR. GRASSO: Correct.

5 MS. DEWAAL: Not 26. And so they are going to
6 have --

7 MR. GRASSO: They are going to have 50 hairs.

8 MR. CHURCH: They had hair.

9 MR. GRASSO: They had a hair.

10 MS. DEWAAL: They had a hair.

11 MR. CHURCH: Yeah. One of the things that makes a
12 comparison between finished product standards and the
13 current standards is that we set it up slightly different.
14 Instead of counting defects in 10 carcasses, we are now
15 counting carcasses with defects. And so if a carcass has a
16 defect, it's a defective carcass and it gets counted in that
17 OCP category. It might be one of the five categories, it
18 might be all five, depending on what the defects are.

19 So it makes a comparison just a little bit
20 difficult to make, but I think an objective evaluation of
21 the side by side that we handed out at the public meeting

1 will show you that these standards are not looser. They are
2 in fact tighter than the finished product standards.

3 MS. DEWAAL: Thank you.

4 MR. GRASSO: I think if you just ask the HIMP
5 plants if they think they are tighter because they are
6 tighter.

7 MR. BILLY: Okay. Dan?

8 MR. LAFONTAINE: Mr. Bill and Dr. Wotecki, I'll
9 make a comment that is slightly out of context but I do need
10 to make it.

11 After the March 30th meeting, I got feedback that
12 led me to believe some of my comments, my comments at that
13 meeting may have been misinterpreted.

14 What I wanted to say briefly is that myself, and I
15 was representing the American Veterinarian Medical
16 Association at that meeting, strongly continues to support
17 the concept of HACCP-based inspection model provided there
18 is adequate government oversight and verification.

19 And as those were there know, I was quite vocal
20 and my comments were strictly meant as constructive
21 criticism and not hopefully misinterpreted as being against

1 the progress of this project.

2 So I wanted to take this public forum to say that,
3 please. Thank you.

4 MR. BILLY: Thanks. Carol?

5 MS. FOREMAN: My question actually follows a
6 little on that.

7 There are several members of the committee who
8 have public health responsibilities. I would like to ask
9 them, are there any of you who would be reluctant to have in
10 your home or in the schools chickens that had been passed
11 out of any of the HIMP plants? Is there any reason in your
12 mind to believe that the products coming out of those
13 plants, to the extent that you're aware, are less safe or
14 less wholesome than product coming out of any other plant in
15 the country?

16 MR. LAFONTAINE: No.

17 MS. FOREMAN: Anybody else want to take a leap at
18 that? Is there anybody that thinks that there is a problem
19 with the plants?

20 I understand that we don't have the data yet,
21 which makes it a little hard to answer.

1 (No response.)

2 MS. FOREMAN: Thank you.

3 I'm sorry to take that on for so long but I think
4 that the transcript of the meeting will reflect some
5 information that will be useful.

6 MR. BILLY: Thank you very much.

7 It is the intent of the agency to continue to
8 share information with the public as we move forward, and
9 another public meeting is being planned that will provide to
10 the public all of the results now with the -- under the
11 model phase. And in this incremental fashion as more data
12 become available, I think we'll have a more and more
13 complete picture and be able to make the kind of comparisons
14 that we worked on a little bit here this morning, and it
15 will just become clearer and clearer to folks.

16 Even after that in the public process, we will go
17 through notice and comment rulemaking if that's justified by
18 the test results, and another opportunity for everyone in
19 the public to actively participate in that process. So
20 we've got a ways to go before we make a final decision about
21 changing the existing regulations that dictate how we do

1 inspection on the slaughter line or in slaughter facilities.

2 So this is an ongoing process, but I think it is
3 important that this committee, you know, understand and help
4 us as we move forward and guiding this project and ensuring
5 that what we are doing is understandable and makes sense to
6 all of you and obviously the public as well.

7 Do you want to --

8 MR. GRASSO: Well, just --

9 MR. BILLY: Excuse me. Cheryl, I forgot.

10 MS. HALL: Thank you.

11 I have a couple of statements and then a couple of
12 questions, Mr. Billy.

13 One is that air sacculitis, to revisit that, is
14 not always caused by a bacterial infection. It can be
15 caused by dust in the houses or other possibilities. It
16 does cause the inflammation, the look of air sac., so there
17 is not always a bacterial problem.

18 From this study that has been identified that 50
19 percent of the birds that are condemned should not be
20 condemned. In this study, particularly, 33,000 birds were
21 condemned and 50 percent was in error.

1 And I wonder if that is going to be addressed, and
2 the number that was quoted for air sac. numbers, we could
3 only assume that that number also has a 50 percent error
4 rate in it, and therefore I wonder if these problems will
5 also be addressed in plants that have not gone onto this new
6 inspection program.

7 MR. JAMES: One comment I would make regarding
8 that is I am certainly there were birds in the condemned
9 barrel that don't belong there. The way that chart is
10 constructed does show that 50 percent of the birds that are
11 in there don't need to be in there.

12 From a practical consideration, I don't think we
13 had a 50 percent error rate, however. As you know, in-
14 plants oftentimes a plant due to the impracticalities of
15 reprocessing a bird or salvaging a bird will sometimes throw
16 birds in the barrel because it's easier.

17 And so there is -- there are birds in the barrels
18 that don't need to be there. Fifty percent is probably just
19 slightly higher percentage than error rate than actually
20 occurs.

21 MS. HALL: Could I address that by the stockmen

1 and packers that you can't throw away a contract grower's
2 birds in the condemned barrel if it's not condemned. So
3 that has to be kept separate by the plants.

4 MR. JAMES: That is an issue that needs to be
5 addressed, and that is a different issue.

6 MR. BILLY: You had another point?

7 MS. HALL: It's my understanding that the VMOs and
8 ISEs are going to be less on the line and less looking at
9 what's going on in inspection; is it correct, that's the
10 proposal? I in other than HIMP plants, I mean.

11 MR. GRASSO: Oh. Other than HIMP.

12 MR. BILLY: That's going to be talked about a
13 little bit in terms of the role of our veterinarians on
14 another agenda item a little later.

15 I want to try to wrap this up.

16 MS. HALL: I do have -- I have one more since the
17 issue of condemnments have come up.

18 In one of these HIMP plants the rate of condemned
19 heads went up very substantially after the appearance of a
20 newspaper article about that plant.

21 Is there -- somebody want to talk to me about why

1 that happened?

2 MR. GRASSO: I'm not clear on the question. A
3 broiler plant has increased --

4 MS. HALL: Yeah, this Gunthersville plant, I've
5 got a list of dates and the percentage condemned, and it
6 went up -- it was very high in the beginning, then it
7 dropped down very substantially, and then after the February
8 4th newspaper article in the Cox newspapers, it went from
9 running around three and four to 16, 25, 34, 52, 21 over the
10 next week.

11 MR. JAMES: We can look into that. We haven't
12 examined that data so we're not in a position to comment on
13 that except to say in general terms, as we have already
14 stated this morning, that condemnation rates for individual
15 flocks will vary. If there is an association in time with
16 that newspaper article, we're just not aware of it.

17 MS. HALL: Okay.

18 MR. GRASSO: But I would like to make a comment
19 that. There is a couple of things that govern the
20 activities in the plant.

21 Number one, the plant may not have a salvage

1 operation, so they choose not to correct the defect on the
2 carcass. Therefore, the bird gets condemned. Or the plant
3 has a salvage operation and because of the conditions of the
4 flock coming in they choose to shut it off. Okay, and then
5 they are not going to deal with the defect, so the carcass
6 is condemned.

7 MS. HALL: And that would vary from day to day in
8 the same plant?

9 MR. GRASSO: Correct.

10 MS. HALL: Okay. Thank you.

11 I do need to get some detail to a response on
12 that.

13 MS. DEWAAL: Thank you, I will be very brief.

14 This is a very impressive data set, and it is a
15 good place to start the analysis of the new inspection
16 models. I do wish we had campylobacter data.

17 MR. GRASSO: The one thing I would like to mention
18 regarding the whole conversation, regarding air sac., is
19 that the steering committee was there at the last public
20 meeting, listened to all of the comments on air sac.;
21 specifically on the maximum limit which forces the plant

1 into potential rework at post-chill.

2 And for your information we are looking at the
3 data as I speak, and we are reevaluating so that will prove
4 to you that this is truly a public process and open public
5 process.

6 MR. BILLY: Alice?

7 MS. JOHNSON: I just wanted to -- Mike, I know
8 that some of the broiler plants are through the RTI
9 transition sampling.

10 Can you comment on that or would you rather not
11 until you have all of them through or things?

12 It's my understanding that the follow-up data
13 looks good when compared to the older system. So there
14 anything you can comment on the data that you've gotten that
15 you have completed from some of the plants already?

16 MR. GRASSO: It's really early, but what I -- how
17 much time do I have?

18 MR. BILLY: Zero.

19 MR. GRASSO: Zero.

20 MR. BILLY: But you can respond to that.

21 MR. GRASSO: No, no.

1 It's too early, but what I wanted to get through
2 to the committee is that we have the baseline phase, and we
3 just had a good discussion of the baseline and what the
4 accomplishment are.

5 So once a plant finishes baseline the next thing
6 that has to happen is the change phase, and we call that the
7 transition phase where the plant takes on some additional
8 responsibilities and FSIS falls back into oversight and
9 verification activities. We call that transition.

10 Now, on the broiler side we have 16 plants that
11 have completed baseline. We have seven plants as I speak
12 today that are in the transition phase or the change phase
13 right now.

14 We have three plants what I call in the models
15 data gathering phase. That's where RTI comes back into that
16 plant and collects the same data from baseline, 2,000
17 carcasses, 300 and 300 on the micro for E. coli and
18 salmonella.

19 So we are building a stockpile of 2,000
20 organoleptic samples in each plant. So if we can get like 10
21 plants, we will have in abundance of 20,000 samples to

1 evaluate whether the plants to meet the new performance
2 standards on how they do.

3 We have two broiler plants that have completed the
4 models data gathering phase, that's Goldkist and Townsend,
5 and they are moving forward as a models plant today.

6 On the hog side, we have five plants that have
7 completed baseline. We have one plant that's in transition
8 right now, and two plants that have completed the models
9 data gathering phase where RTI went back in and collected
10 the data.

11 We are going to use the data from the five hog
12 plants to establish the 75th percentile for the swine for
13 performance standards. On the turkey side we have three
14 plants that have completed baseline, we need to get two more
15 plants for baseline data, and we would do the same thing for
16 the hogs, like we do with the hogs. Five plants, look at
17 the baseline data, establish performance standards, and then
18 again go back into the plants and gather models data.

19 I think I will stop now while I'm ahead.

20 MS. FOREMAN: Thank you very much.

21 MR. BILLY: You are welcome.

1 It's 10:30. What I would like to do is to go to a
2 break now, but I'm going to shorten it to 15 minutes. So I
3 would very much like the committee to be back here at the
4 table at 10:45.

5 (Whereupon, a recess was taken.)

6 MR. BILLY: Okay. If the committee members will
7 take their seats, we'll get started.

8 I wanted to wrap up this discussion on the models
9 project but there was -- one of our committee members, Alice
10 Johnson, has been quite involved in this area of effort and
11 wanted to share with the committee some of the initiatives
12 that they have taken in their organization regarding
13 preparing industry or plants for this kind of change in
14 HACCP-based inspection.

15 Alice.

16 MS. JOHNSON: Mr. Billy said that I could do this
17 but I had to do it quick, so no power point, no overheads,
18 no video, doggone it.

19 Anyway, we've worked with a lot of the broiler
20 companies and the National Chicken Council and put together
21 a task force to look at how industry should consider

1 training. There are people that they are putting on line,
2 and a lot of companies sent their individuals down to the
3 basic poultry inspector training course in Texas, which they
4 thought was very good. But as the inspectors, FSIS
5 inspectors get ready to perform their function, they also
6 have to go through a lot of administrative training, and so
7 it was two weeks and a lot of it dealt with travel vouchers
8 and T&As and looking at things that a lot of companies
9 thought we needed more focus on just the pathology, the
10 disposition.

11 The agency did come back and now offers a three-
12 day training program that a lot of the companies have sent
13 individuals to, which works out very well. But when you
14 consider that a lot of these companies, one of the broiler
15 companies that was a part of the joint NCC/NTF task force
16 said they trained 60 people. And if you sent that many
17 people down to Texas when this was happening, you probably
18 wouldn't run birds for a couple of weeks.

19 But what happened was the task force got together
20 and developed what they considered to be an appropriate
21 training criteria, similar to what was done back when we

1 first stated with the HACCP training for industry. The
2 training criteria was submitted to the International HACCP
3 Alliance, which is a part of Texas A&M, and the criteria has
4 been accepted and is a part of the training program that the
5 alliance has their web page.

6 The intent is now that when people wish to be
7 accredited, to have an accredited training program for the
8 HIMP models, which if it becomes mandatory there will be a
9 big need for the training courses. A lot of the industry
10 put in hundreds of hours developing courses, and that's good
11 for right now, but later on there will be more companies and
12 there needs to be a center flow to keep the materials and to
13 keep the training, the integrity of the program.

14 The criteria has been accredited by the alliance.
15 Companies that wish to have their training program
16 accredited can go through this accreditation review. They
17 have to send in a copy of their materials. The alliance has
18 an accreditation committee that reviews the materials and
19 determines whether they meet the criteria that has been
20 established, and we hope this will keep some uniformity in
21 the way industry is doing things, and later on provide

1 resources with accredited trainers and the whole works.

2 And I appreciate the time.

3 MR. BILLY: Okay, thanks, Alice.

4 Any questions for Alice?

5 (No comment.)

6 MR. BILLY: I think that's great.

7 All right, we're going to move on. I think that
8 was a very good discussion and elicited hopefully a better
9 understanding of the models project and where we stand in
10 the approach that we are talking.

11 Now, we're going to shift to the area of
12 interstate shipment of state-inspected product. As the
13 committee will recall, this an area of considerable effort
14 by the committee that led to what I will characterize as
15 consensus on a strategy or an approach to dealing with this
16 issue, and based on that the administration produced a draft
17 legislation that was forwarded to Congress, and is being
18 given some consideration in Congress.

19 Chris Church is here to update us on where that
20 stands and what some of the issues are. So Chris.

21 MR. CHURCH: Thank you. It was my pleasure last

1 meeting last November to tell the committee that the bill
2 that they had been so helpful in shaping the concept for had
3 actually been transmitted to Congress that day, so I think
4 it was last November 2nd when we met here, and that was the
5 day we sent the interstate shipment bill to the Hill.

6 And this morning I would just like to give a
7 little chronology of what's taken place over the past six
8 months and where we stand today, and hopefully get us back
9 on track and turn it over to Ron shortly.

10 Most of you will have followed it pretty closely,
11 but it was then two weeks after we sent it to the hill it
12 was introduced by Senator Dashall and Senator Hatch as the
13 new markets for state-inspected meat and poultry products.

14 Following that, in the spring back on April 6th,
15 Senator Lugar held a hearing with the Senate Ag Committee on
16 the bill. I know a number of you were there. USDA
17 testified, Deputy Secretary Romenger for the department. I
18 know Carol Tucker Foreman was there and various parties were
19 represented, and a good hearing.

20 At that time Senator Lugar announced that it was
21 his intention to get together all interested stakeholders

1 within the next couple of weeks to further explore all their
2 views and then to move to markup. In fact, that did take
3 place. Later that month there were two meetings where all
4 the stakeholders did get together in the Senate Ag
5 Committee, aired their views.

6 And at the present time it's my understanding that
7 Senator Lugar does intend to mark up the bill in the near
8 future.

9 On the House side the bill has not been introduced
10 but I would say there actually is very great awareness of
11 the bill and great interest, and they have been following
12 the bill closely, and my sense is that the agricultural
13 leadership in the House will monitor what happens in the
14 Senate and then based on what comes out of the markup and
15 what might -- they may move then or wait till action on the
16 floor in the Senate, but I know they are monitoring it
17 closely.

18 I know they came over to the stakeholder meetings
19 that were held in the Senate to observe those, and I know
20 from the calls we get in the office that small plants across
21 America are writing their congressman because we get a lot

1 of calls at the office, how do I answer this letter.

2 In fact, I was up talking to the staff from a
3 couple congressmen from Wisconsin last week, so there is a
4 great deal of interest in moving the bill.

5 I have no prognosis for it. I think at this point
6 people are jockeying. The bill as it is has held together,
7 which I think is very important. One of the things we have
8 discussed in the past is, you know, this was a concept that
9 is sort of a delicate balance that had the consumer
10 interest, it had the USDA interest, it had the state
11 interest, and also had the trade interest all balanced, so
12 the bill has held together so far, and USDA continues to
13 support the bill as it is.

14 So it's kind of a stay tuned and maybe it will
15 move to markup soon.

16 MR. BILLY: Okay. Comments or questions from the
17 committee? Anyone?

18 (No response.)

19 MR. BILLY: Okay. All right, thank you very much.

20 The next item is another briefing that will focus
21 on several administrative areas. One is the Workforce of

1 the Future, which includes our interests in establishing and
2 filling consumer safety officer positions, what that's
3 about. Another related initiative is a task force that we
4 have had looking at the role of the veterinarian of the
5 future, and then finally, we wanted to touch briefly on the
6 areas of recruitment. We have had problems in the area of
7 inspector shortages and we have mounted a significant effort
8 to turn that situation around, and Ron will provide you more
9 details in terms of what we have done and where we stand.

10 So it's my pleasure to introduce Ron Hicks, the
11 deputy administrator for management in the Food Safety and
12 Inspection Service. Ron?

13 MR. HICKS: Thanks, Tom. Good morning to you all.

14 I think the last time I was here I shared some
15 information with you on what we hoped were going to be some
16 successful efforts in the area of recruitment, and I think,
17 as I speak a little bit more later on, you will hopefully
18 agree that we have made some good in-roads and we have some
19 good processes in place that are dealing with some issues,
20 and we feel very good about where we are going in that
21 regard.

1 Here with me at the table is Dale Boyle from NAFB,
2 and Dale Boyle, Dr. Boyle worked with me heading up the task
3 force of the workforce of the future, and asked if he would
4 want to join me and to the extent that we wants to say some
5 words about where we are with that task force and some of
6 the things coming out of it.

7 I guess last May there were some issues that were
8 presented to you on the workforce of the future and where we
9 were headed in certain regards and certain areas, and my
10 purpose here today really is just to update you on some
11 things that have occurred over the past year.

12 Most of what we will talk about, I'll talk about,
13 will be centered around a task force called The Workforce of
14 the Future Steering Committee. It was a group that Tom
15 assembled almost a year ago to help walk us through a lot of
16 agency initiatives, so a lot of my comments will be based on
17 some work that that group is doing.

18 The first update is on the CSO initiative,
19 consumer safety officer. In '99, we advertised to fill
20 approximately 30 positions in six metropolitan areas, and
21 these are where the enhanced positions that we have gotten

1 feedback from you on that required more science and more
2 education.

3 There were 100 internal folks who were qualified
4 for those jobs or who applied for those jobs. Fifty were
5 qualified. Unfortunately, we had to pull back those
6 announcements due to some language that we've got in our
7 appropriations bill for 2000 in which expressed some
8 concerns or raised some concerns about CSOs and what they
9 were going to be about and what the cost might be to the
10 agency and so on.

11 So they asked us, Congress asked us to do a report
12 that was submitted February 15th.

13 And by the way, the paper that I'm talking from is
14 in tab 5 of your book, about half way through. And there is
15 an attachment, an excerpt from that report that's attached
16 to the document that I'm reading from.

17 We submitted a report to Congress that made our
18 case, we feel, for why we think the consumer safety officers
19 are a good thing, and we've been in touch with the Hill over
20 the past few months, trying to answer any additional
21 questions that they might have about consumer safety

1 officer.

2 We have yet to move forward with announcing and
3 filling any jobs at this point in time. We are hoping to
4 fill somewhere between 50 and 75, at least announce those
5 this year and hopefully fill those as quickly as we can, but
6 we're still waiting for the completion of our discussions
7 with the Hill before we move forward with those.

8 We feel good about the report that we did put
9 together, feel very comfortable with making our case. We've
10 gotten good reactions so far from the House and Senate
11 committees, and there are a few other folks who we have
12 talked to, staffers that we feel are also understanding what
13 we are trying to do with the consumer safety officer
14 position, and we hope real soon to be able to get a positive
15 nod so we can move forward.

16 But we didn't feel comfortable in light of the
17 fact that we did receive such language in the appropriations
18 bill, we didn't feel comfortable moving forward without
19 having the proper amount of discussion on the Hill.

20 Some additional Workforce of the Future
21 information that I want to share with you. The task force

1 is a task force that -- not like one that we've had in the
2 past, the steering committee. Yvonne Davis heads it up and
3 she has a staff of about three full-time people working with
4 her. It's made up of representatives across the agency,
5 NAFB, National Joint Council of Food Inspectors, ATSP, and
6 others who don't have any affiliation with a particular
7 group but who have different roles within the agency.

8 And the idea is to get a good cross-section of
9 people who can contribute in a very meaningful way in terms
10 of where the agency is headed and the different initiatives.

11 Dale Boyle, who was part of VMO task force, as I indicated,
12 is also part of the team. Every initiative in the agency
13 that we have going on, that person, the lead person from
14 that group is part of this Workforce of the Future Steering
15 Committee.

16 Like I said, Tom assembled this committee last
17 July, and the primary purpose is to make sure that with all
18 these initiatives going on that there aren't conflicts or
19 clashes in terms of the different directions that we are
20 going with different initiatives, and to make sure that
21 above all or as important as anything else we are

1 implementing initiatives in a way that is employee-sensitive
2 while at the same time trying to accomplish what the agency
3 is trying to accomplish.

4 So we feel really good about the fact that we have
5 a group that's very dedicated, very hard working, has
6 complete access to Tom and the other senior managers, and on
7 a regular basis has been involved in meetings and is able to
8 just ride herd over everything that's going on.

9 If you have ever had any involvement with agencies
10 in the past where there are a lot of different initiatives
11 going on at the same time, then you probably already realize
12 and appreciate the benefit of having a group that's in place
13 full time to just watch over and make sure that things make
14 sense to and with each other.

15 I found interesting as the industry group was
16 discussing and forming itself, it chose a quote from Melvin
17 Toffler that says, "Our moral responsibility is not to stop
18 the future but to shape it, to channel our destiny and
19 humane directions and to ease the trauma of transition."

20 I wish I had thought of that, and suggested that
21 to this group, but this is what they came up with and this

1 is how they see themselves, and they are not shy about --
2 this group is not shy about raising questions with anyone,
3 the deputy administrators on down if they see an area of
4 conflict where things just aren't working.

5 There is some challenges that this group is
6 facing, that the agency is facing that I think it's worth
7 just reading the paragraph in your handout where it says,
8 "At the same time we are seeking to recruit inspectors and
9 veterinarians for chronic shortage areas, introduce new
10 occupation such as the CSO, retain season inspection
11 employees, develop a career ladder that provides healthy
12 opportunities for both long-term employees and external
13 hires, develop a workforce succession plan and remodel our
14 training and education program, all in the climate of
15 limited resources."

16 Right there it just kind of points out where the
17 agency's challenges are and what this Workforce of the
18 Future Steering Committee has to handle. We feel really
19 good about the fact that we have this group.

20 Some of the initiatives that this workforce is
21 dealing with has workforce implications obviously is the

1 HIMP models project and the group is very closely involved
2 in what's happening there in terms of looking at the jobs
3 and where that project is going and making sure that the
4 issues coming out of it are being watched and monitored.

5 One that you may not be aware of that the group is
6 also dealing with is the Tech 2001, which is a training
7 initiative. The agency has decided that it has a good
8 training program, but it has a training and education
9 program that may not be meeting the needs of all of its
10 employees as much as it needs to and may not be getting the
11 biggest bang for its buck.

12 So the task force is headed up by Peggy Nunnery,
13 and once again it is a cross-section of people throughout
14 the agency who are involved with it. And the idea is to
15 look at our entire training program, maybe stop calling it a
16 training program and call it an education program, and look
17 at what we need to do differently in terms of what we are
18 training our people in; what we are asking our folks to be
19 more education and what our delivery is like; how we take
20 advantage of distance learning; do we take enough advantage
21 of distance learning; do we need satellite locations to

1 better accommodate and meet the needs of all of our
2 employees because our dispersion is so great.

3 These are just some of the issues that the task
4 force is tackling and taking on, and the Workforce of the
5 Future Steering Committee is playing a key role and making
6 sure that the proper answers, the proper questions are being
7 dealt with there.

8 Another issue that the task force, Workforce of
9 the Future Steering Committee is dealing with and it is
10 obviously very near and dear to my heart is the area of
11 recruitment.

12 We feel that we have had a good amount of success,
13 as Tom indicated, since we last spoke. We have since
14 November brought no approximately 290 inspectors and
15 veterinarians. Just last pay period we brought on 29 full-
16 time permanent inspectors and two VMOs. We have been doing
17 a very good. Our top number so far has been 41, which is
18 probably as many as we've hired in any one pay period, at
19 least since I've been here and probably before then.

20 We feel that there is some combinations here that
21 have caused us to improve, and we also appreciate all the

1 help and support that this group has offered us, and in some
2 cases actually helped us with, so we appreciate that.

3 We have established a process by which every
4 district manager can constantly keep track of what their
5 numbers are in terms of on-board strength in these district.

6 We have a process that allows them to anticipate attrition,
7 and we have a process that allows them to identify key areas
8 where recruitment needs are the most urgent.

9 On a regular basis those folks meet with my
10 staffing people who are located primarily in Minneapolis,
11 who service the field. I have approximately 12 to 15
12 specialists at any given time working with the 17 district
13 managers in the field office, and their staffs on an ongoing
14 basis, trying to keep track of where we are from the
15 staffing standpoint and where our recruitment issues are and
16 trying to stay on top of those. And we think that a lot of
17 that has really caused some of the success that we have
18 realized.

19 There is also bi-weekly reports that come in here
20 to headquarters, and Mark Mina and I read them on a regular
21 basis and then we share those with Tom and Maggie. So the

1 amount of interest and the amount of attention being paid to
2 just what our recruitment needs are, our improvement efforts
3 are has been tremendous, and I think we have benefitted as
4 an agency as a result of it.

5 It's still hard work every day. These jobs, as in
6 other job markets around the country, it's very hard to
7 recruit and find people who want to be food inspectors and
8 veterinarians. It's not the easiest thing for us to recruit
9 for so we spent a lot of time and we've increased the number
10 of test sites that we have from -- we've almost tripled the
11 number of test sites.

12 We've made great use of temporary appointments,
13 bringing people on board as the paperwork is being
14 processed. We just recently got approval from OPM which is
15 going to help us with our intermittants, to have them waive
16 the two percent reduction in annuity that retirees would
17 have to realize if they came back to work for us.

18 So now a person who is retired, and there is
19 limitations place on how we can use these, but retirees that
20 we know have a great amount of interest and coming back and
21 doing some work for the agency from time to time for a year

1 or six months at a time are available and are very much
2 interested. And now with that two percent penalty being
3 waived, we have much more access to a large group of people
4 who are trained and able to come in and help out on short
5 notice and staffing shortage issues come in and help us out.

6 We feel very fortunate and very pleased that OPM was able
7 to grant that waiver and allow us to recruit from that
8 source. We feel really about that.

9 So our efforts, we feel, in the recruitment area
10 based on a process, based on the people that we have
11 involved in it have created a great amount of success for
12 us.

13 When I was making this talk last week, I said to
14 the group that I was speaking with that while we have a goal
15 to be at a certain point by the end of July, the best thing
16 that we are doing is that we are institutionalizing a
17 process, and institutionalizing a commitment to making sure
18 that we do the optimal job in recruiting people and
19 retaining people.

20 What is really happening is that as a result of
21 the reorganization that took place a couple of years ago

1 some of the infrastructure that was in place in the field in
2 the regional offices to deal with this recruitment and
3 staffing was torn away, and we replaced it with another
4 infrastructure, and now that infrastructure is starting to
5 take hold, starting to work very well with the district
6 managers and their resource people in the field, and it's
7 starting to come together in a very meaningful way, so we
8 feel really good with where we are, not just from meeting
9 certain goals we have imposed upon ourselves for July, but
10 also beyond that. We feel really good that we have a handle
11 on what we need to do as far as recruitment.

12 Another initiative that we've been working on is
13 the VMO of the future, goal of the VMO of the future. Dale
14 Boyle and I have been working on this for about a year and a
15 half, almost two years now, and we are about ready to issue
16 a final report. We are going to be sending it to Tom in a
17 week or so. We have some more feedback, if you will, to get
18 from our task force members.

19 We had a wonderful task force to work with, both
20 national and international, both internal and external to
21 the agency. There were days when the vets were talking to

1 each other about very technical things where most of it just
2 went right beyond me, and Dr. Boyle here was good enough to
3 talk to me afterwards and educate me as to what was being
4 discussed, so it was very informative and educational for
5 me. They gave me a very good feel for what the
6 veterinarians in the agency deal with and just what they
7 bring to the table.

8 So that task force report is going to be going out
9 as soon as we get the final nod from our task force members
10 and Tom releases it, and Dale and I are working on an
11 implementation plan to how we will implement some of the
12 recommendations in here, but one of the things that it does
13 talk about is trying to make optimal use of the skills and
14 education of our VMOs.

15 So many of our vets right now are tied to the
16 line. They are tied to the line dealing with supervisory or
17 administrative type issues in terms of helping with
18 staffing, dealing with union issues and problems and things
19 of that nature, and feel that they don't get the
20 opportunities to make as much use of their technical
21 abilities and their education as they would like.

1 So there are some aspects of the report that talk
2 about trying to find ways to make greater use of the vets'
3 skills in that regard, which would mean taking them away
4 from the line for some period of time. Now, what that
5 period of time is is what we need to work through right now
6 with everything that's going on in terms of looking at HIMP
7 and looking at the role of CSO and looking at the role of
8 compliance officers and things of that nature.

9 But what will hopefully come out of that is an
10 expanded role for our veterinarians which will make optimal
11 use of what they bring to the table, and will allow us to
12 use them in different ways than just being so attached to in
13 a plant on the line.

14 Dale, do you want to add to that?

15 MR. BOYLE: It's hard to even start without
16 thinking about boring this group to death. I think some of
17 you who have probably spent a day with us in February when
18 we talked about the report. It really hasn't changed much.
19 We're doing a little bit of nitpicking finishing up, but
20 the general focus has been there. The primary response was
21 quite favorable from practically everyone who talked to us.

1 For those who have to nitpick, they did give us a few
2 things and we've tried to address those in a meaningful way.

3 I think I'll try to say this in two minutes or
4 less. The report is in five parts, but number one is the
5 role of the veterinarian as they exist in FSIS today is
6 inefficient and needs to be fixed.

7 The veterinarian bring a lot of capabilities to
8 the table but many of those capabilities are rusty, and so
9 we also in the report said really you're going to have to
10 give us the tools that we need. So one, use us; two, give
11 us the tools; three, let's refine the way we are doing
12 things, and we talked about some of the initiatives that the
13 agency has underway, but we also went a little bit beyond
14 and we are asking for some thing that have not been
15 finalized. Some have been talked about for some time but
16 haven't been done. But things like animal identification,
17 expanded automation capabilities, expansion of partnering
18 throughout, partnerships with industry, partnerships with
19 trading partners, partnerships among ourselves, among the
20 government itself. And finally, using the veterinarian in
21 an expanded role throughout with the giving them more of a

1 role in the global food safety mission.

2 So that's kind of what it's about. A although
3 this had a veterinary flavor, I think you could take this to
4 any other discipline that FSIS possesses. Much of what we
5 ask for are the same kinds of things that are needed by the
6 inspection force, you could apply this to the consumer
7 safety officer. We really need to concentrate on building
8 an infrastructure that gives us an FSIS to be proud of.

9 And one of the things that I like to talk about is
10 make FSIS an employer of choice. We can't say that right
11 now, and we need to work toward that.

12 MR. HICKS: There on the bottom of page 3 of our
13 handout just talks about the agency guiding principles for
14 the Workforce of the Future, and just talks about what Tim
15 Billy and what the other deputies views are on how we need
16 to proceed, and I think that we had 11 principles that the
17 Workforce of the Future Steering Committee developed and
18 those four right there, those three at the bottom of the
19 page and the one beginning of the next page kind of capture
20 what those principles are and how we feel we need to proceed
21 with our future workforce.

1 Just to finish off, the Workforce of the Future
2 Steering Committee, you see there on page 4 some of the
3 activities that it overall engages in and some of which I
4 have mentioned already, identifies surface emergency issues
5 or potential conflicts.

6 In our very first meeting we had an opportunity to
7 do that when we made a decision, I think it was involving
8 HIMP, and both NAFV and NJC were -- as being part of the
9 group -- saw that in making the certain decision or change
10 in a process that we were going to have some problems, and
11 that it was different from what we had communicated to them
12 in the past.

13 And so we had to get with Tom Billy during the
14 week and meet with the key players and straighten now. Now,
15 that may seem like a small thing, but in the past those are
16 the sorts of events that would take us days, weeks, or event
17 months to overcome given the nature of different
18 relationships and just how difficult it is to reverse
19 certain things once they go down a certain path.

20 So that piece of what this workforce does,
21 workforce group does is extremely critical to us.

1 Facilities interaction between initiative leaders,
2 Dale and I as a result of this group meet with other
3 initiative leaders across the agency, and just to make sure
4 that we headed down a path where we can co-exist with our
5 initiatives.

6 Communicate with and support FSIS employees, this
7 is an extremely vital role that this group plays. One of
8 the things the agency is dealing with right now is some
9 results from a National Partnership for Reinventing
10 Government All Employees Survey, which just talked about the
11 fact that a number of our employees just feel that we need
12 to improve our communication and to be clearer in our
13 communications. We need to be more frequent in our
14 communication. We need to be also simpler in our
15 communication in terms of keeping them informed as to what's
16 going on.

17 So the work that this workforce group plays in
18 that regard is extremely vital. The more we can engage our
19 people and make them feel engaged the more successful we'll
20 be in terms of what we are trying to do. So that's a very
21 vital role that this group plays.

1 They have also put together a chronology which may
2 be of interest to you all if you haven't seen it because it
3 just starts out from when the rule was being drafted and
4 brings us up to date to now in terms of what all the events
5 have been. And the tough part we're having is keeping the
6 chronology to less than X number of pages. Of course, the
7 longer you go the more things happen. But there are a lot
8 of key critical events that are part of that chronology.

9 Our employees have found it very informative.
10 Some of our managers have found it very helpful in terms of
11 tracing what's happened. I imagine you guys may feel some
12 interest in look at it as well if you haven't already seen
13 this. So if folks are interested, we'll be happy to provide
14 it to you.

15 And the last thing here on this page is like a
16 flow chart, a functional flow chart. What the group is
17 trying to do is create a flow chart for the agency in terms
18 of what work that we do from slaughter through processing
19 and try and lay out roles along this flow chart, much like
20 you would on an assembly line, if you will, and make it more
21 visual in terms of what happens at different points in the

1 chain and who is involved and where there may be overlap.

2 This is sort of an ambitious undertaking that the
3 group is trying to accomplish, but we feel that if we can
4 get this, it may be very, very helpful in terms of having
5 folks just look visually to be able to see what we do and
6 where the overlap may be.

7 Questions? Comments? Thoughts?

8 MR. BILLY: Katie?

9 MS. HANIGAN: One question I do have for you, you
10 indicated that you had 50 qualified applicants for the
11 consumer safety officers?

12 MR. HICKS: Mm-hmm.

13 MS. HANIGAN: Are you planning or is the agency
14 planning on lowering the qualification standards because you
15 indicated that they were wanting to fill 50 to 75 positions
16 yet this year? So if we only have 50 qualified
17 applications, where are the other 25 applicants, qualified
18 applicants coming from?

19 MR. HICKS: Well, we don't intend to lower any
20 standards in terms of what we are looking for. Those were
21 announced in certain -- in six areas. So obviously,

1 hopefully, if we announce them in more areas, we would have
2 more applicants.

3 And also just the second time around with more
4 information to people in terms of what the jobs are all
5 about. More familiarity with the job, we expect more people
6 to apply just for that reason as well. But it was limited
7 to those six areas, so normally that happens.

8 Just by way of comparison, not related to consumer
9 safety officer at all, we have announced jobs in the labor
10 relations field nationwide and gotten just a couple of
11 applications. So you could go out tomorrow and announce
12 that again, and get three or four times that many.

13 MS. HANIGAN: Okay.

14 MR. BILLY: Lee?

15 MR. JAN: Back in '95 or '96, when FSIS began
16 reorganization and moved to the districts, there was talk
17 about or a proposal to have a field epidemiology officer or
18 epidemiology officers in each district. I think there are
19 now eight or nine of the districts have epidemiology
20 officers, and there is nothing mentioned in here for
21 epidemiology officers.

1 Is that going to -- is that still part of the plan
2 or is that going to go away or can you tell me about
3 epidemiology officers?

4 MR. HICKS: It's not going to go away, and in fact
5 I think in the beginning of this year while we were having
6 budget discussions and making budget decision there was talk
7 of having an epi officer in each district still. And we had
8 to make a decision at that point that we couldn't do that
9 just from a resource standpoint.

10 But it's very much alive. It's very much on the
11 table and I am sure that we will revisit it as we start
12 discussions at least for next time around and maybe sooner.

13 So it's still on the boards to do that. The decision just
14 will be made as to when.

15 MR. JAN: Okay, thank you.

16 MR. BILLY: Donna?

17 MS. RICHARDSON: Yes. You indicated that you were
18 identifying locations where special recruitment activity was
19 needed and then further down you talked about the fact that
20 the efforts had been moderately successful, and two
21 questions as to whether or not this success has shown up

1 where you have these critical shortages, and also when you
2 say that you are in the process of hiring 265 new full-time
3 inspectors and 105 new full-time veterinarians, what does
4 that mean, we're in the process?

5 I mean, you have that many vacancies identified or
6 you have actual applicants?

7 MR. HICKS: I have to admit the fact that that
8 sentence was a little unclear to me. We've hired since last
9 November close to 300, but we always have -- and we still
10 have in the process, if you will, vacancy announcements that
11 each district has submitted to us that we are hiring for.
12 So we are continuing to recruit for vacancies across the
13 country, and that's a fairly large number. I'm not sure if
14 that 265 affects that or not.

15 MS. BOLTON: The 265 also reflects those where the
16 decision has been made to select a certain person. You send
17 a letter to them. You wait back to see if they -- if they
18 have accepted, or the interview process has taken place,
19 whatever stage, it could be in various stages. The
20 reporting date has not yet been set, but it means that there
21 is a candidate in mind, and that person is on his way

1 somewhere in the process.

2 MR. HICKS: This is Joanne Bolton, who works for
3 us in HR, human resources, and she is also one of the
4 permanent members of the Workforce of the Future Steering
5 Committee, so she works pretty closely with the recruitment
6 folks obviously because of her position, and so she is able
7 to clarify what that 265 means better than me.

8 MS. RICHARDSON: With those identified bodies, are
9 those identified bodies slated for some of these high
10 critical areas that we are talking about?

11 MR. HICKS: Yeah. We have, especially in those
12 critical areas, we have a staffing specialist or two working
13 with the district manager and their resource management
14 specialist in those areas on at least a weekly basis and
15 sometimes, Ms. Richardson, on a daily basis, trying to deal
16 with those critical areas. And sometimes -- sometimes we
17 are able -- in some cases we have answered the need in those
18 areas, but because they are critical areas where it's tough
19 to hire areas, we're constantly needing to stay on top of
20 it.

21 So in some areas, like in Kansas, we feel good one

1 week and then the following week we don't feel as good
2 because the turnover is such that we need to stay on top of
3 it on a regular basis. We feel the best about the fact that
4 we have a process in place that helps us do that, and we
5 have the resources dedicated to it to help us get there. So
6 we are as positioned as we can possibly be in terms of being
7 able to get at it, but sometimes each week brings a
8 different scenario for, but we are able to identify, and
9 that's part of this process that the district managers have
10 before them, we are able to identify where the critical
11 areas are on any given day and what the needs are.

12 MS. RICHARDSON: Okay, thank you.

13 MR. BILLY: Alice?

14 MS. JOHNSON: First a comment and then a couple of
15 questions.

16 I think the agency needs to be commended
17 particularly for the training committee that I know Peggy
18 has been working with. Our tech and reg committee was in
19 Omaha and they were a part of one of the focus groups. The
20 questions were great. It was a really good interaction, and
21 you're to be commended for reaching out to the various

1 groups to work through some of these issues.

2 MR. HICKS: Thanks.

3 MS. JOHNSON: I want to ask some questions about
4 CSOs/CSIs. Currently, now you said that there were 100 that
5 applied and 50 that were eligible.

6 Do we currently have consumer safety officers
7 within the FSIS workforce?

8 MR. HICKS: Yeah.

9 MS. JOHNSON: And how many?

10 MS. BOLTON: Right now we have 17 who were former
11 food technologist. They are in each district office. But
12 other than those 17 who were reclassified from food
13 technologists, we don't have any.

14 MS. JOHNSON: Okay, and there are none in plant
15 right now?

16 MS. BOLTON: No.

17 MR. HICKS: Uh-huh.

18 MS. JOHNSON: What about consumer safety
19 inspectors, do we have any inspectors that have been
20 reclassified?

21 MS. BOLTON: Twenty-seven hundred food inspectors

1 have been reclassified to consumer safety inspectors.

2 MS. JOHNSON: Okay, and that's the on-line
3 inspector?

4 MS. BOLTON: The off-line inspector and the ones
5 in processing plants.

6 MS. JOHNSON: Okay. I'm going to switch here just
7 for a minute. On the -- I'm looking at inspector shortages
8 because we are really concerned, especially as we get into
9 the summer months, and a lot of focus has been on the HACCP
10 inspection models project and the freeing up some of the
11 inspectors there here.

12 The agency also committed to do a work measurement
13 within the HIMP plants. Have you started the work
14 measurement for the oversight verification inspectors that
15 are currently in the HIMP plant? Will that be a part of the
16 rule or the proposed rule when it comes out in the next few
17 months?

18 MS. BOLTON: Their work has already started. The
19 visits have been made to some of the plants already, and so
20 work is being done at this point to develop a system for
21 determining the proper number of inspectors needed.

1 MS. JOHNSON: And one more question and then I'll
2 be quiet here, for a little while at least.

3 Once you get an inspector in the system and a VMO
4 into the system to get ready to go, I know you have an
5 estimate for how long it takes by the time they accept till
6 you get the paperwork till you get the training, to the
7 point where they can be on the line.

8 Is it weeks? Is it months? How do you estimate
9 how long it takes to get them on the line and ready to go?
10 We have them in the system but when will they be able to man
11 the line?

12 MS. BOLTON: The former process really was pretty
13 elongated and took about 90 days. I'm sure that those steps
14 have been cut. Again, Ron talked about temporary hires
15 until the paperwork is processed and clearances are done and
16 those types of thing until they can be scheduled to take the
17 test.

18 So I'm not quite sure what the new time frame is.

19 MS. RICHARDSON: But it was 90 days just for the
20 paperwork aspect of it and that didn't include the training
21 and orientation?

1 MS. BOLTON: The 90 days included the process from
2 announcing the position until the applications were rated,
3 all the way through till the person being on board.

4 MS. RICHARDSON: Hired, but not trained.

5 MS. BOLTON: Right.

6 MS. RICHARDSON: Thank you.

7 MR. HICKS: We get them more in the matter of
8 weeks now. Sometimes, depending on when the person is able
9 to report or when a certain district is ready to receive
10 them, where there is not a shortage issue kind of determines
11 what the amount of time is. But it is weeks now as opposed
12 to months.

13 At some point we can give you all some -- because
14 we are going to analyze and assess our progress in a very
15 detailed way -- we can give you some estimates as to what
16 the average times have been to bring people on board. We
17 would be happy to share that with you because we want to
18 know ourselves just how much we have improved or how much we
19 haven't improved.

20 But we think what we will see is that we obviously
21 have improved in terms of how long it takes to bring people

1 on board and we will be looking at those kind of figures and
2 numbers to see how much more improvement we can do and what
3 things we need to do. So we will be happy to share those
4 with you.

5 MS. JOHNSON: Thank you.

6 MR. BILLY: Magdi?

7 MR. ABADIR: Yes. We should gain about these 50
8 consumer safety officers and right now what you have is --

9 MR. BILLY: Would you move the microphone right in
10 front of you? Thanks.

11 MR. ABADIR: Of those 50 that are qualified are
12 originally inspectors that are on line with experience now
13 or I mean, the data that you have right now on those 50 that
14 you talked about, are those people working on the line at
15 this stage or been not working on the line?

16 The other issue I want to raise too is backup, for
17 example, for small plants and very small plants. When you
18 see an inspector, someone backing up instead of having four
19 or five plants to look, you have an inspector in one day
20 that he's looking at 12 or 16 plants. That means he's
21 spending a few minutes there, and without knowing those

1 plants, never been in this area, becomes very difficult for
2 a real good job or a quality of it when someone doesn't know
3 anything about the facility.

4 MR. HICKS: Okay. As far as the 50 that I
5 mentioned to you, those jobs were pulled back. We announced
6 those jobs early on. We did not proceed with filling those
7 jobs because Congress has some issues with the consumer
8 safety officer concept. So we felt we needed to deal with
9 that, and we're still in the process of dealing with that.
10 So those people who qualify for those jobs never did really
11 move forward.

12 The CSOs that we have on board are the ones that
13 Joanne mentioned, that we have one in each of the districts.

14 MS. BOLTON: But those that apply for the jobs
15 were not people in line jobs. They were processing
16 inspectors and some VMOs did apply for those jobs as well.

17 MR. BILLY: Okay. Rosemary?

18 MS. MACKLOW: I would like to make a brief
19 statement and ask a question.

20 It's not well understood by the community the real
21 importance under the existing law that you must have in a

1 slaughter plant an inspector on site before operations can
2 begin, because antemortem inspection continues to be a
3 critical issue. And thus the staffing requirements that
4 you are handling and the concerns that the industry has are
5 critical to making sure that the industry can operate.

6 In my lifetime in this industry, I have known
7 quite a few occasions where because of some error the
8 veterinarian didn't arrive in time for antemortem
9 inspection. An animal got killed. It got condemned because
10 antemortem is part of the process, absolutely critical. And
11 therefore we are very interested in ensuring that there are
12 sufficient people to conduct the business of the agency.

13 It's particularly tricky because most slaughter
14 plants are in rural areas and if he has a problem at home
15 or, you know, there is a myriad of reasons why people don't
16 get to work some day and accidents happen. But when an
17 accident happens on antemortem inspection, they don't
18 operate. Or if they do, the animals are condemned.

19 Like others around the table, Ron, I think things
20 have got a lot better. I'd like to ask a question on the
21 attrition rate, which is the other end of the equation of

1 why do you lose inspectors? Why do they leave? What do
2 they go to do if they leave the agency? Is it mostly
3 retirement, honorable retirement, or do they leave for
4 better jobs? What kind of exit interview information do you
5 have for losing inspectors at the other end of the equation?

6 MS. BOLTON: We have an exit interview system in
7 place but at this point the form has not been approved by
8 OMB, so it cannot be issued to anyone after they leave. So
9 we sometimes don't find out about a person leaving until
10 afterwards by the time it gets from the plant to the person,
11 to headquarters, that the person has left.

12 But of those that we have gotten from inspectors,
13 there is a myriad of reasons, but the majority of them are
14 retiring. The average age for our inspector workforce is
15 about 48. We have inspectors who love their jobs and most
16 of them do tend to stay in those jobs. But the reasons they
17 leave are better working conditions. They do feel isolated
18 at some points.

19 One, I know, left to go into the ministry. There
20 are just various reasons. But the majority of the ones that
21 leave it has been because of retirement.

1 MS. MUCKLOW: How many numbers have you got
2 leaving versus numbers coming in?

3 MS. BOLTON: Because of the aging workforce
4 federal government-wide, all the baby boomers are the ones
5 that are now leaving, and that's been the problem with the
6 staffing shortages is as soon as we feel we have gotten up
7 to the number that we need we have other people who are
8 leaving, and I think in the last year the retirement rate in
9 December was a little higher than it was in previous years.

10 MR. HICKS: Normally December and January are our
11 toughest months, and at points, different points during the
12 summer. But this year our attrition continued into February
13 and March and a little in April. I do think that we lost
14 people just because we have a mature workforce and folks
15 just decide that it's time to leave.

16 But just from talking to folks, and we do make a
17 lot of visits to the field, and they communicate with us,
18 people just -- like Joanne says -- have a lot of reasons.
19 The work is less desirable. Some people who are here don't
20 change, it's very difficult for a lot of folks, and they are
21 not quite certain either how they fit into it or whether

1 they want to fit into the change that's going on.

2 So it's just a lot of reasons that people are
3 leaving, a lot of different businesses and places right now
4 is trying to find better jobs, trying to find more money,
5 trying to find better situations. That's a part of it, and
6 that's the part of it that we have to deal with. Tom and I
7 have had more than conversation about being an employer of
8 choice.

9 Saying that is one thing and making it happen is a
10 challenge. But as we tackle that challenge, I think it will
11 also affect our retention and our recruitment because people
12 will say, "I wouldn't mind working for that place."

13 So it's a number of reasons but that's an issue as
14 well as retirement.

15 MR. BILLY: Cheryl and then Nancy.

16 MS. HALL: Thank you.

17 I think it's an excellent idea to try to free the
18 veterinarians from the administrative paperwork and the
19 scheduling and all that. But I have a question about how
20 we're going to proceed with the line inspectors.

21 If you free the veterinarians from the line, who

1 is going to oversee the calls on pathology and who is going
2 to do correlation, that sort of thing because the only
3 person that the agency has in a plant to do that would be
4 the veterinarians?

5 MR. HICKS: Yeah.

6 MR. BOYLE: There was no will of the committee to
7 exonerate from the technical oversight. Where we see a real
8 opportunity is in the young healthy animal slaughter and
9 similar to a HIMP mode in that you have either an oversight
10 responsibility, whether it's plant personnel or inspection
11 personnel that are performing the removal of pathology.
12 You're going to have a responsibility to make sure that's
13 going well.

14 If you have a truly effective HACCP system and you
15 aren't doing young healthy animal slaughter, then this is a
16 fairly easy thing to do.

17 If you have a truly effective HACCP system, and
18 there are problem animals that are being introduced, we will
19 know that ahead of time. It won't be a surprise. Industry
20 will inform the entire inspection team that this is going to
21 occur, and we're going to schedule or line speed, and we're

1 going to schedule our activities appropriately.

2 So when that occurs you can -- you can, again,
3 refocus the veterinarians back into those things. However,
4 I don't think it's necessary nor did the committee to take
5 time and attendance of inspectors, and that's been a big
6 part of what we do. I don't think it's necessary for us to,
7 when the union is unhappy about something, to be the main
8 mediator of whatever that issue might be at this particular
9 time.

10 It's not particularly important for us to be
11 overseeing that line at all times when that line is going
12 very well, and there may be days and even months in certain
13 operations where that can occur.

14 Having responsibility throughout the entire plant
15 is far more reasonable. In other words, you know what's
16 going on on line because you visit that on a regular basis.
17 You more or less have a quality system yourself, a quality
18 system for vets, if you will.

19 Well, we know where we're going to be, and we are
20 going to set it up on an irregular basis to oversee the
21 entire plant. We're going to be interacting with whatever

1 microbiological controls are in place. And I think I'm
2 getting on a soap box so I will step back off. I can see
3 myself going.

4 MS. HALL: I have one other question.

5 We have a lot of safeguards in place for the
6 pathology to be called correctly, but we don't have anything
7 and you are removing the one thing that does say whether
8 inspector by inspector they are making the calls correctly.

9 In other words, they are not overculling such as the 50
10 percent of birds in the barrel. And while this study wasn't
11 done on the baseline to say how many birds additionally are
12 called for air sac. or other conditions that should not be
13 called for that, that does happen, I can say that and I'm
14 sure everybody that goes in the plant has seen that.

15 What do you have in place for that, to address
16 that problem? When you have an employee -- I mean, we have
17 inspectors that rotate from red meat plants to poultry
18 plants, and there is a whole different way of looking at the
19 carcasses. So what do we have in place to address that
20 problem?

21 MR. BOYLE: I don't think you have anything really

1 in place right now other than the veterinarian in the plant,
2 as you said before. And I see no reason for that role to go
3 away.

4 MR. BILLY: Yeah, maybe I can help a little bit.
5 I don't think there is any intent to extract our
6 veterinarians from playing those kinds of roles, but there
7 are certain functions that many of them play now that we
8 believe could be carried out by inspectors and free up some
9 of the time of veterinarians to do other things.

10 We will be starting a public process to look at
11 that and there will be plenty of opportunity for this
12 committee and everyone else to provide input. But it will
13 be done in a way to strike an appropriate balance. And to
14 the extent that inspectors aren't filling in on the line, if
15 that's needed, then we have a responsibility to have another
16 source of inspection capacity to do that, to play that role.
17 So that's a part of what we need to sort out as we look at
18 implementing the recommendations in the report.

19 MS. GLAVIN: One of the things that many of our
20 vets complain about is that in this time of short staffing
21 they are spending three-quarters to all of their time giving

1 breaks to inspectors. So in effect, we have a highly
2 trained veterinarian working as a food inspector, and, you
3 know, so that's the kind of thing that this task force is
4 trying to come to grips with.

5 MR. BILLY: Nancy?

6 MS. DONLEY: I'd like to make a comment and also
7 ask a question.

8 On this consumer safety inspector role where I
9 want to voice a concern that it says here that roles are
10 going to be filled by converting processing and on-line food
11 inspectors in HACCP plants. And I think that the amount of
12 inspection done in processing plants now is at far too low a
13 level currently, and I am very concerned that to even lower
14 that further we could be putting additional -- creating
15 additional problems.

16 What Magdi had said earlier about the fact that,
17 you know, in some of these processing plants you will have
18 an inspector who is covering, you know, 10 or 12 different
19 plants. They are in the plant for five to 10 minutes. It's
20 just not enough time to really, you know, be doing a
21 thorough job. So I'm very concerned with that particular

1 plan.

2 And second, I have a question is on the first page
3 under the main points. Ron, it says -- maybe you can
4 clarify this, tell me what it means. "We have no plans to
5 reduce current employment levels, but we do seek to limit
6 workforce growth in a rational manner."

7 I don't think I understand what that means.

8 MR. HICKS: What that means is that we are not
9 looking -- I mean, we are looking to hold onto the resources
10 that we have, that we need the resources that we have. But
11 we need to make sure that we are making the best use of
12 those resources that we possibly can.

13 MS. DONLEY: The resources in terms of personnel?

14 MR. HICKS: Mm-hmm. Right.

15 MS. DONLEY: So these new positions are going to
16 be additional personnel or you are converting individuals?

17 MR. HICKS: If we can get additional personnel, we
18 will get them. But we plan to use our existing personnel.
19 It won't be additional one, but we want to make sure that we
20 don't have fewer personnel either, and we hope to convert
21 our current personnel resources into some of these

1 positions.

2 MS. BOLTON: I guess, to add to that, we wanted to
3 keep the same number of staff years that we have now. And
4 as attrition occurs we want to fill those positions either
5 through the conversion of the current workforce to those
6 positions, or by hiring in others, but we want the staff
7 years to remain the same instead of being decreased.

8 MR. BILLY: Maybe I can help clarify that point
9 and the earlier on you raised.

10 A way of reading that is to read it as a
11 notification that the agency is making to all interested
12 parties that we believe we need to maintain the size
13 workforce we know have; that we have other roles that people
14 can play beyond those that they have traditionally played in
15 addressing food safety issues.

16 So for those that might be thinking about
17 targeting the size of our workforce and trying to impact it,
18 we are just saying for everyone to hear, hopefully, that we
19 need the people, the resources we have, but we're -- our
20 workforce of the future strategy is about redefining roles,
21 and in that process creating opportunities for our people

1 to, through more training and education, get higher paying
2 jobs, safer jobs, more effective jobs in terms of food
3 safety.

4 MS. DONLEY: And that's the rub because -- I'm
5 sorry.

6 MR. BILLY: Let me finish.

7 And then the concern you raised about the
8 conversion, don't read conversion as those people leaving.
9 They would stay in place, but if they qualify or if they are
10 taking additional class work to meet the qualification
11 requirements for consumer safety officer, we can redefine
12 that job from what it now is to a consumer safety officer,
13 and the person will receive more pay. There will be more
14 rewards and they will be in a position, we believe, of doing
15 a more effective job in a HACCP environment.

16 So it's not taking people away; it's upgrading the
17 skills consistent with our approach to inspection, and then
18 rewarding people that are -- you know, through further
19 college classes and on-the-job training and so forth,
20 qualify to meet the requirements of a consumer safety
21 officer.

1 MS. DONLEY: And I really applaud what the agency
2 is trying to do in getting -- in upgrading and getting
3 additional skills and levels of education. I think it's
4 very important.

5 But as those skill levels go up, pay levels go up,
6 and if your budget remains the same the numbers have to --
7 the numbers of individuals have to go down.

8 I mean, I just -- and I think you don't need, as
9 far as monetary resources, you can't expect to remain the
10 same. You have got to go up.

11 MR. BILLY: Yeah, and that's consistent with the
12 budget strategy we have been pursuing, and would intend to
13 continue to pursue.

14 MR. BILLY: Carol?

15 MS. FOREMAN: I had to step out for just a minute.
16 Did you have a discussion of this year's -- the 2001
17 budget, which suggested that as a result of the
18 implementation of the HACCP models projects and changes in
19 processing inspection, you would need fewer inspectors?

20 And it is my understanding that in the Senate
21 Appropriations Committee report it says that they expect you

1 will have these processing changes in place by next March
2 and that you will sustain certain personnel reductions as a
3 result of those changes being made.

4 Now, this goes absolutely contrary to all of this.
5 Does the department know that we need all these positions?
6 Does OMB know that we need all these positions? It's sure
7 that the Senate Agriculture Appropriations Committee doesn't
8 know we need all these positions.

9 There will be a tussle with my organization if
10 there are any attempts to reduce the total workforce for the
11 Food Safety and Inspection Service. We need those
12 inspectors. We agree that we need them doing some different
13 things. But as Nancy pointed out, the level of processing
14 inspection in some plants is far below what's needed. And
15 unless you go through notice and comment rulemaking to alter
16 the process -- the manner in which processing inspection is
17 doing, we will oppose it vigorously, and we will make a big
18 fuss about it.

19 It's contrary to everything else the department is
20 trying to do.

21 MR. BILLY: Cathy?

1 MS. WOTECKI: Yes, let me first of all make a few
2 observations and then address directly the issue that Carol
3 has raised.

4 I have been quite struck by the nature of this
5 discussion and I think Rosemary's comment early on was right
6 on target. I have been struck because the problems that
7 FSIS is facing with maintaining the size of its workforce,
8 upgrading the skills of that workforce, retaining those
9 people is also the problem that's being faced by almost
10 every other federal agency.

11 There was a very good article in the Washington
12 Post last week that, Tom, we might make available to this
13 committee because it kind of points out that this is a
14 problem that's facing the federal government across the
15 board. We have already pointed out that the FSIS -- the age
16 structure of the workforce is such that we've got, and we
17 should expect also over the next 10 years to have a major
18 proportion of our workforce retiring.

19 At the same time we're struggling to attract
20 people into job that are in this current economy rather low
21 paying jobs, and we are competing against growth in a number

1 of other sectors. So FSIS is having these problems. Many
2 other federal agencies are having the same problems.

3 So I think it's good to kind of put that in
4 context. It just isn't a problem for FSIS, it's an across-
5 the-board problem. It's perhaps the more acute because of
6 the reason that Rosemary brought up. The agency does have a
7 legal responsibility to have the proper qualified people in-
8 plant so that they can operate. So there is this additional
9 requirement on the agency that if there are no those
10 appropriately qualified people in-plant, the plant can't
11 operate, and that is creating across the country some
12 problems in some particular areas where it's been extremely
13 difficult to recruit and to retain people in those
14 particular areas of the country.

15 So I think it might be worthwhile if we could get
16 a copy of that article and provide it to you. For those of
17 you that don't live in this area, it's kind of illuminating
18 because it does point out that this isn't just a problem for
19 this agency, although we do have some particular concerns as
20 well.

21 With respect to, Carol, your comment, constructing

1 the 2001 budget was very challenging to put it mildly. The
2 agency has been over the past several years designing the
3 inspection models project, putting it into place, keeping
4 this committee and the interested community at large
5 involved through a series of public meetings about that
6 project. The implications of the project have also been
7 spoken about in a number of public meetings.

8 So that project and its implications were taken
9 into account in constructing the 2001 budget.

10 In addition to that, the changes in --

11 MS. FOREMAN: I'm sorry. Did you say were or were
12 not?

13 MS. WOTECKI: Were taken into account. Beginning,
14 you know, two years ahead of time to construct a budget you
15 have to make some assumptions, and the agency did make some
16 assumptions based on the progress to date of the inspection
17 models project, particularly in the poultry plants.

18 So looking forward the implications of that were
19 among many underlying assumptions that were used in the
20 construction of that budget.

21 We made it very clear though in the testimony that

1 we gave on the House side -- this year we did not have the
2 opportunity to testify before the Senate Appropriations
3 Committee but we did submit written testimony, and in both
4 cases the written testimony and the oral testimony that we
5 provided we did indicate that we would not be move forward
6 until we had thoroughly evaluated the full implementation of
7 the models project.

8 So I think that any language that the Senate has
9 written in is not taking into account that, and we will
10 certainly be working with them for that further
11 clarification.

12 Now, the reductions that you're talking about were
13 associated with overtime pay for processing plant inspection
14 and did not reflect actual people. It is a difficult
15 concept in the budget, but the FTEs that were accounted for
16 actually were reflecting overtime pay and not a real
17 reduction in the number of people.

18 So we've tried in the testimony to make that
19 clear. We have tried as well whenever we've had an
20 opportunity to talk in public or with groups to make it
21 clear, but it is certainly in the area that obviously we're

1 going to have to do some additional talking and explanation,
2 and so that people can understand that.

3 MS. FOREMAN: Let me -- look, I first became
4 associated with the meat and poultry inspection in the mid
5 1970s, two years after OMB had contracted for its first
6 effort to excuse reducing the number of inspectors, the
7 Booze Allen Hamilton report.

8 Every -- virtually every year since then the
9 Office of Management and Budget has been looking for ways to
10 reduce inspectors. From time to time, they have succeeded
11 for short periods of time. Industry and consumers all get
12 together and say this isn't acceptable. For years you all
13 have been sending budget proposals up to the Hill to fund
14 inspection with user fees, and again we all get together and
15 we oppose those.

16 When the poultry industry began to expand very
17 substantially the department started, because of the carcass
18 by carcass inspection requirement, to pull inspectors out of
19 processing and they have never been replaced, and it is very
20 alarming for me to read anything that suggests that there
21 are savings to be made in processing.

1 I would like to see the department and the
2 administration be saying that to the extent that position
3 savings are made as a result of the HIMP projects, they will
4 be utilized to make up for some of the shortages that we
5 have in processing inspection.

6 And although your testimony on the House side was
7 very reassuring with regard to the process that you'll go
8 through in terms of the HACCP models and personnel, I was
9 not very reassured by the statements about processing
10 inspection, and still haven't seen anything that says that
11 you're not going to go in and reduce further, as your budget
12 suggests you will do, the level of processing inspection.
13 It says in the budget that you will not be visiting plants
14 on a daily basis in processing -- I'm sorry, on a shift
15 basis, and that's not sufficiently clear.

16 We'd like -- obviously I think that a risk-based
17 processing inspection system is the way to go. That means
18 in some plants, like plants that grind hamburger and are now
19 visited on a patrol basis, you might have inspectors there
20 all the time.

21 There is nothing in the budget documents that say

1 a word about that. I don't think it's in your
2 appropriations testimony, and I think it's fairly clear from
3 the Senate Ag Appropriations Committee report that they
4 don't understand where you want to go, and I don't believe
5 that the people who hold the purse strings at OMB understand
6 and what's worse, I don't think they are sympathetic. I
7 think they see 7,500 slots and they have already started
8 calculating, oh, yes, with all these changes we can get down
9 to 5,000, and then other government agencies will be able to
10 have more employees.

11 The bean counters really have more capacity to
12 undue all the progress that's been made in updating
13 inspection than anything else that I can think of.

14 MR. BILLY: Rosemary and then Lee will have the
15 final word.

16 MS. MUCKLOW: I'd like to see if I could allay
17 Nancy's fears and to some extent Carol's fears about
18 processing inspection, and maybe give the committee a bigger
19 picture on that as I tried to do slaughter inspection.

20 People who process, not slaughter, are required to
21 provide the government with their schedule of operations.

1 They are not permitted to start their operations before the
2 scheduled starting time or to end them after the scheduled
3 starting time without notice to the government. This is
4 vastly different from every other food product that is
5 processed in the United States.

6 This gives the government the flexibility to visit
7 that plant on a patrol basis at any time. The government
8 also under the reorganization that FSIS has done has two
9 levels of people that may choose to go visit that plant.
10 One are the regular foot patrol inspection; the other are
11 the increased level of compliance staff.

12 So if there is a concern or an issue, they have
13 two levels of people that can be deployed, in addition to a
14 circuit supervisor who may casually drop by.

15 The processing plant may see an inspector once a
16 day. That inspector may spend 20 minutes there, he may
17 spend two hours. He has a flexible schedule to go into a
18 processing plant and look at very specific issues. This is
19 part of HACCP. The transition is beginning to take place.
20 Some do it better than others. Some plants do it better
21 than others. But this flexibility does exist.

1 I would just like to assure that each plant is
2 assessed by the agency in terms of how much inspection it
3 needs. That process started in 1986 with the passage of the
4 Processed Meat Inspection, the performance-based inspection
5 system. That flexibility, that assignment of tasks has been
6 an evolution that has occurred over time.

7 The processing inspectors are higher grade
8 inspectors. They are people with more qualifications that
9 can walk into a plant. They have more knowledge, more
10 understanding of what that operation is, and they can
11 accomplish their tasks and conduct their inspection
12 activities and look at records more rapidly than an
13 inspector who is standing on line in the slaughter plant.
14 It's just a whole different process, and it's why with a
15 smarter working force you can cover a lot of space as
16 distinct to stationary inspectors who stand on a line
17 looking at slaughter operations.

18 The one last point I would make is that one of my
19 favorite books that you publish is the Annual Report of the
20 Secretary to Congress. And you only have to look at the map
21 in that book and see the map of the United States, and each

1 state is marked with how many inspected establishments and
2 how many inspectors there are. That picture tells a
3 thousand words.

4 It tells you where the large numbers of inspectors
5 are standing in those stationary positions on lines. Those
6 people are not necessarily interchangeable with processing.

7 They will need more qualifications, upgrading, further
8 education to take the processing inspector; really running
9 two systems, and they simply are not interchangeable.

10 But I would certainly like to assure that
11 processing inspection is conducted every day in every plant
12 in the United States. There may be some rural plant that
13 will get an inspector every other day, but in most plants
14 you are getting inspectors every day, spending a meaningful
15 amount of time on a random basis. They can go at six in
16 the morning or two in the afternoon. The company doesn't
17 have that schedule of their assignment.

18 MR. BILLY: Lee?

19 MR. JAN: I won't need to take a whole lot of time
20 because Rosemary is thinking, I think, on the same line that
21 I am. But I wanted to make a comment to make it clear that

1 this committee is not unanimous in supporting maintaining or
2 increasing the number of inspectors.

3 I think we need to have a number of inspectors
4 necessary to do the job, but we have a system now that we
5 have all embraced, the HACCP system, and we need to rely on
6 that system that, that system that says the responsibility
7 for food safety is the plant's responsibility, and
8 inspection's responsibility is to assure that the industry
9 has taken that responsibility to heart and carrying it out.

10 And you don't, in my opinion, have to have an inspector
11 holding the hand of an industry to carry that responsibility
12 out.

13 The inspectors need to be in a plant often enough
14 to verify records and verify that things are being done
15 properly, but we don't have enough inspectors, and I as a
16 taxpayer don't have enough money to give government to keep
17 putting in an inspector to do the job of an industry when an
18 inspector can do that, not necessarily every day, even
19 though right now that's the goal is every day, but under
20 HACCP, HACCP is applied every day. HACCP system works every
21 day. HACCP system worked when the inspector is not there.

1 So if there is a time that an inspector is short,
2 rather than having someone in the wings waiting to cover for
3 him, have an opportunity for HACCP to work and an inspector
4 may miss a plant a day or two, but the system continues and
5 the records are there to verify that it worked and it
6 continued to work.

7 So, but I think that's basically where Rosemary
8 was going and I just wanted to make that point.

9 MR. BILLY: Okay, I want to call this discussion
10 to a close. A lot of good discussion and different points
11 of view. We're a little behind, but then what's new. It's
12 12:15, so I would like to resume at 1:15, and we will pick
13 up on the agenda with the industry's petition.

14 (Whereupon, at 12:14 p.m., the meeting in the
15 above-entitled matter was recessed, to resume at 1:15 p.m.,
16 this same day, Tuesday, May 16, 2000.)

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A F T E R N O O N S E S S I O N

19 (1:24 p.m.)

20 MR. BILLY: We're missing several committee
21 members. Unfortunately, the restaurant upstairs was a

1 little inconsistent delivering its food, including the
2 Chairman. So there are about four or five folks that were
3 just finishing and should be down momentarily. I'll talk a
4 little bit about the agenda in anticipation of those folks
5 coming.

6 What I thought we could do is the ARS presentation
7 is going to be by Roger Breeze instead of Floyd Horn. Roger
8 is one of the associate administrators, and he was here
9 earlier. He had to run and get something, but he said he'd
10 be right back, and I'd like to try to keep him on the time
11 slot that he's scheduled for. So what I was think of doing
12 is dealing with the industry petition immediately, and then
13 we will play it by ear in terms of how far we can get into
14 the additional species. Maybe we could deal with both of
15 those before Roger speaks at 1:45.

16 So with that, let me introduce Dan Engeljohn who
17 will be addressing an industry petition that proposes a
18 series of changes to the existing HACCP and pathogen
19 reduction regulations.

20 Dan?

21 MR. ENGELJOHN: Thank you, Mr. Billy, and good

1 afternoon everyone.

2 Each of you should have a copy of the petition
3 itself as well as the issue paper that addresses our current
4 thinking in tab number six. In addition, we did make sure
5 that each of you got a copy of the Federal Register reprint
6 that came out yesterday which published in its entirety the
7 petition that was submitted to us by the industry. So you
8 should have both those documents.

9 The notice that published in the Federal Register
10 is virtually word for word as to what is in the petition.
11 There is just a bit more information in the notice simply
12 because it provides a little more framework as to why we are
13 issuing the notice through the Federal Register.

14 I do want to say that this is a unique opportunity
15 for us here at the agency to present a petition to this
16 committee in particular. To my knowledge, we have never put
17 a petition in front of a committee before nor have we
18 published one in the Federal Register and asked for comment.

19 So as part of the efforts within the agency to be
20 transparent in what we are doing and to be informed about
21 the decisions that we're making, we've gone the extra step,

1 I believe, to elicit public comment and the expert advise
2 from a committee such as this to help us in formulating how
3 we move forward with a regulatory change.

4 I do want to just say a little bit about the
5 petition process because it's not in this particular paper,
6 and for those of you on the committee not familiar with
7 rulemaking it may give you a little insight as to the
8 process.

9 The department has regulations. Actually there is
10 one sentence within the regulation that says that the
11 federal agencies must accept petitions from the outside on
12 how a regulation can either be improved, deleted or a new
13 one added. And so the process that we have right now is we
14 received a petition from a group of industry organizations,
15 eight of them as a matter of fact. We signed on to the
16 petition letter, and are asking for some changes to the
17 exiting regulation.

18 And so part of that process normally would be that
19 the agency would take that petition, submit a letter back to
20 the petitioner saying that we received it, and then we would
21 go about looking at the options provided in the petition,

1 looking at the pros and cons and then making a decision as
2 to whether or not it fits within our statutory authority.
3 If it does, and we choose to address all the issues in the
4 petition, we can grant it in its entirety, which then puts
5 it into the process of going to the public notice and
6 comment process of regular rulemaking.

7 If there are things within the petition that don't
8 fit within the statutory authorities that we have, then we
9 respond back to the petitioner by denying the petition and
10 telling them that we don't have the authority to do what's
11 being asked and therefore don't pursue it further.

12 In this particular case, we've not yet made a
13 determination as to the merits of the petition, as to
14 whether or not what was being asked for in fact are within
15 our statutory authority or whether or not there are things
16 within the petition that can be handled through an
17 instruction to our employees as to how they interpret the
18 regulation.

19 So this is the beginning process. Again, I
20 repeat, this is the first time that I am aware of that we
21 have actually put a petition in the Federal Register and

1 asked for public comment. That comment period closes July
2 14th, so there is still ample time for anyone in the public
3 or from this committee to submit a comment.

4 We will consider the information derived from this
5 committee, in essence, as comment to the notice and we'll
6 take that into consideration as we move forward.

7 Just to let you know what we have and what you
8 have in tab number six in terms of our current thinking, we
9 are providing you the entire petition. We are making clear
10 that the HACCP regulations went into effect for all meat and
11 poultry establishments as of January of this past year. And
12 so with regards to meat and poultry, all of our
13 establishments are operating under HACCP.

14 This committee was selected as the one which would
15 at least be presented the petition in that we're asking for
16 input because we see this as an implementation of an exiting
17 policy as opposed to a science-based reasoning, and
18 therefore we put it to this committee as opposed to the
19 National Advisory Committee for Microbiological Criteria for
20 Foods.

21 We summarized briefly what the petition asked for,

1 which in general it's asking for interpreting the HACCP
2 advisory committee's paper, the NACMF paper that came out in
3 1998, when it actually published, that we've interpreted
4 that paper too narrowly, and so the petition is asking to
5 make it more broad.

6 It's asking for a number of definition and
7 interpretation changes. It's asking to change the scope in
8 terms of when a product is produced or shipped and it deals
9 with just inadequate plans in general in terms of them being
10 too strictly interpreted.

11 With regard to what the agency has done and will
12 be doing, we did respond back to the petitioners in January
13 with a letter saying that we have received it and we have
14 put it into our tracking system that we have internally with
15 regards to the petition the agency is dealing with.

16 We published yesterday in the Federal Register a
17 notice which contains in its entirety the petition. Again,
18 that comment period closes on July 14th, and we will accept
19 comments from anyone as to the merits or as to any issue
20 related to the petition itself.

21 I do want to point out that the agency has begun

1 looking at the implementation of HACCP since now all of our
2 federal establishments are operating within that system. We
3 are now going through the process of looking at the HACCP
4 plans that were actually put in place to see if in fact they
5 contained the types of information that we would expect to
6 be there. This would be a more thorough and complete review
7 than what we have done in terms of putting forward the basic
8 requirements for implementation of HACCP. That's underway.

9 We have put together a survey which will ask our
10 own inspection employees questions about some things
11 contained within the HACCP plans, primarily those things
12 related to what's in the hazard analysis as well as the
13 critical control points and critical limits.

14 In addition, we'll be asking questions about
15 compliance with the E. coli requirements that are in the
16 existing regulation, so it's to elicit some information to
17 help inform us about what actually is in the HACCP plans
18 within the federal establishments.

19 We have not yet begun looking at any directives or
20 notices that would be appropriate as a consequence of this
21 petition. Again, we wanted to start the process of getting

1 feedback from this committee as well as the public before we
2 made determinations as to what can be handled through a
3 directive to our employees, which are instructions, versus
4 those things which in fact would require a regulatory
5 change.

6 I think the last time that I was here in November
7 I went through the regulatory process to tell you a little
8 bit about what happens when we make a change to the
9 regulations. The HACCP regulations when they were first
10 implemented or first issued were in fact significant
11 regulations that had to undergo departmental and OMB review.

12 It's been our experience that changes to the HACCP
13 regulations, the technical amendments as an example that we
14 have issued, have also had to undergo departmental review
15 and OMB review, and so we would not expect any changes as a
16 consequence of this petition to be dealt with differently,
17 and consequently that puts additional burdens on the agency
18 in terms of putting forward what changes may be necessary.

19 I do want to also point out that as we're looking
20 at this petition we are also keeping in mind the fact that
21 we have egg responsibility for process eggs and we are

1 looking into shell eggs as well and intend to move forward
2 with sanitation SOP and HACCP-type regulations for the egg
3 industry.

4 So any changes that we would make to the meat and
5 poultry HACCP regulations would likely also be reflected in
6 the egg regulations. We don't expect there would be much
7 difference there.

8 Again, in terms of what we intend to do at this
9 point would be for this committee to take this issue this
10 evening and specifically deal with the questions that we
11 have identified, the six questions. I'll briefly just walk
12 you through those.

13 The first question is: The industry petition
14 relies mainly on the NACMF document and does not provide any
15 data, for example, to support its request. What we are
16 asking this committee is are you aware of any information
17 that would support taking any of the actions requested in
18 the petition.

19 The second question is: Would amending Section
20 417.2(a), which is our HACCP regulations dealing with the
21 hazard analysis, in the manner suggested in the petition

1 result in regulations that provide the level of public
2 health protection required by the Federal Meat Inspection
3 Act and the Process and Products Inspection Act?

4 Again, we work within the statutory authority that
5 we have. We can't go beyond that, and we can make an
6 interpretation as to how we are going to implement the
7 statues as are written, but we have to work within the
8 framework of those two statutes.

9 The third question is: Should FSIS consider
10 regulatory modifications that would acknowledge the
11 prerequisite program's concept of a micro committee's paper?

12 And I would point out for those of you that might
13 not be familiar, when we issued the HACCP regulations we did
14 in fact identify the sanitation SOPs as prerequisite -- as a
15 prerequisite program. So we actually put that language in
16 the final rule preamble.

17 The fourth question is: Do FDA regulations, such
18 as the good manufacturing practice regulations found at 21
19 CFR, Part 110, offer an approach that FSIS should consider?
20 How would such an approach fit within the HACCP concept and
21 how would FSIS implement such an approach?

1 The fifth question is: What will be the effects
2 of making FSIS and FDA HACCP regulatory requirements
3 dissimilar?

4 And on that point I would point out that in the
5 preamble to the final rule we did identify that we tried as
6 best we could to follow the intent and the language
7 contained within the FDA regulation for seafood, on the fish
8 and fishery products. We also took into account the
9 requirements that other countries have, such as Canada,
10 Australia and New Zealand with regard to HACCP.

11 And that relates to the sixth question which is:
12 Should the changes suggested in the industry petition be
13 considered in light of the views expressed on HACCP by Codex
14 and other countries?

15 So those are the six questions that we identified
16 that we would like specific input from the committee. I
17 intend to be available to answer any questions that you
18 might have related to the statutes that we work within as
19 well as any issues you may have as to what in fact may be
20 handled through a directive in the manner that the
21 regulations already provide for, and it may just be that we

1 need to issue instructions to our own employees, and then
2 possibly identify issues which would in fact require
3 regulatory change.

4 So with that I will end it there and entertain any
5 questions that you may have.

6 MR. BILLY: Any questions? Rosemary?

7 MS. MUCKLOW: Dan, I'm not sure if I heard you
8 exactly right. Did you make an either/or decision on which
9 committee to submit this to and you decided on this one, and
10 you are not submitting it to the micro, or are you
11 submitting it to them also?

12 MR. ENGELJOHN: I would say that when we received
13 the petition, having read it, we immediately decided that
14 this is an issue related to the implementation of HACCP
15 since we have a regulatory framework already in place, and
16 it doesn't go to the detail in terms of the science base
17 beyond the HACCP regulations. And so our decision was that
18 this is an implementation issue and it should come to this
19 committee.

20 To my knowledge, we don't intend to go to the
21 other advisory committee.

1 MR. BILLY: But obviously they would be free to
2 comment on it individually or collectively.

3 MS. MUCKLOW: I think I would like to strongly
4 suggest that they also be formally asked to give some advice
5 on this subject because HACCP was their baby, and we're now
6 growing the baby up a little bit and applying it in slightly
7 different ways, and I think their advice would be very
8 useful on this.

9 MR. BILLY: I don't want to preempt any discussion
10 now but I would suggest, Rosemary, that that be something
11 that the subcommittee consider in terms of recommendations.

12 MS. MUCKLOW: Okay, I don't think I'm on that
13 subcommittee.

14 MR. BILLY: Well, okay. Alice?

15 MS. JOHNSON: Well, I think I am on that
16 subcommittee, but I would like to support Rosemary in that
17 the micro committee, their development process, the first
18 question asked for data are examples, and it looks like we
19 could review what the micro committee did and get some of
20 their input, and see if they had the data and examples that
21 you're looking for to help support.

1 MR. BILLY: Okay.

2 MS. JOHNSON: But we'll talk about it tonight.

3 MR. BILLY: Okay. Lee?

4 MR. JAN: I just have one question on -- well,
5 you've mentioned beginning surveying selected establishments
6 to assess the content of the HACCP plans.

7 Are you using that tool that was presented at the
8 last meeting that we had?

9 MR. BILLY: Yes.

10 MR. LEE: Okay. And then the selected
11 establishments are random selected, are they preselected on
12 some criteria?

13 MR. ENGELJOHN: I would clarify that this
14 particular issue related to beginning surveying, there are a
15 number of issues the agency is doing. One is the in depth
16 verification, which you've heard about the last time. This
17 actually is a separate initiative in which we have started
18 the process of making some evaluations, some very small
19 based surveys of randomly selected establishments regarding
20 specific issue.

21 As an example, for those of you who attended the

1 listeria meeting yesterday, we presented the outcome of a
2 survey that we did on 30 establishments with regard to how
3 they handle the listeria reassessment.

4 This would be a similar type survey where we -- we
5 do not have OMB approval to go to the public or to the
6 establishments themselves to ask the questions that we are
7 looking for. We therefore have to ask this of our own
8 employees. We don't need OMB approval to do that. And so
9 this will be an initial effort to help us identify maybe
10 some of the things we need to specifically tackle first in
11 terms of making an assessment of what is actually being done
12 in the HACCP plans. So it is in fact a different tool than
13 what you were presented last November.

14 MR. BILLY: Okay. Caroline and then Katie?

15 MS. DEWAAL: Thank you.

16 When you say in your questions what is -- what
17 will be the effect of making FSIS and FDA HACCP regulatory
18 requirements dissimilar, can you elaborate on that a little
19 bit? How would this petition do that?

20 If you could just give us a little bit of
21 background on that, I would appreciate it.

1 MR. ENGELJOHN: What I can say about that
2 particular issue is, again, we have not made decisions about
3 the merit of the petition. So in terms of what effect this
4 petition would have, that is different than what is in the
5 FDA regulation for seafood. I'm not able to say that at
6 this time.

7 That issue is getting to the very specific concept
8 that we would expect we would have to go back to OMB with
9 any of the rulemaking related to this particular amendment
10 and changes to the HACCP regulation. OMB oversees all the
11 federal agencies in terms of their rulemaking activity and
12 is very interested in ensuring that there is consistency and
13 uniformity across the federal government in terms of
14 regulatory activities.

15 With regard to food safety, we all have an
16 interest in trying to have a system that is uniform and
17 consistent. And so changes -- when we put together our
18 regulation, we in fact took into account what was in the FDA
19 regulation, which did in fact go into effect before our
20 poultry regulations went into effect.

21 And so if we have a change in terms of concept or

1 how we would approach HACCP, we also have to go the extra
2 burden of identifying why it's necessary to be different in
3 terms of a regulatory format than what FDA has in their
4 seafood regulation.

5 MS. DEWAAL: There are other notable differences
6 with FDA because you have got microbial testing is a key
7 component of your regulatory structure and you have the
8 whole pathogen reduction concept which they don't -- their
9 HACCP rule is more like window dressing.

10 But I'm interested particularly is the definition
11 of hazard analysis that would mark that difference.

12 MR. ENGELJOHN: I would say that that is one issue
13 that in fact could make maybe a substantive difference
14 between the two regulations. Again, we have not yet made --
15 we did not provide you with our assessment of what this
16 petition does. Again, we are not in the position to do that
17 at this point.

18 MS. DEWAAL: But again, that definitional issue
19 really goes to -- I mean, hazard analysis is such a core
20 concept to HACCP that it strikes me that this petition is
21 going to a really key issue in the HACCP regulations, and

1 I'm just -- I am struck that if that concept were to change
2 it would have other ramifications as well.

3 Thank you.

4 MR. BILLY: Katie?

5 MS. HANIGAN: I will be chairing this subcommittee
6 tonight and I am requesting permission to hand out five
7 different documents at this time to our entire committee
8 here. One I've been very vocal about, not receiving
9 information ahead of a discussion.

10 And kind of following up on what Caroline is
11 talking about, we have put together a comparison of FSIS
12 micro committee, Codex and FDA, the definition of hazard,
13 and I'd like everybody on this committee to have a copy of
14 it.

15 Also there are a series of definitions that are
16 laid out in the pathogen reduction HACCP rule, everywhere
17 from control measure to CCP and we will be using these
18 documents too, so I'm requesting that they be passed to the
19 entire committee at this time.

20 Have an article here that we're going to reference
21 tonight. It is the role of prerequisite programs;

1 informative article; would like everyone on the committee to
2 have a copy of that.

3 MS. DONLEY: Excuse me, Katie.

4 Who is "we" that you refer to that has done all
5 this stuff?

6 MS. HANIGAN: There is a series of industry groups
7 that got together with the original petition, so they were
8 good enough to assemble this information in preparation for
9 the meeting tonight, when I saw what part I was going to be
10 chairing.

11 MS. DONLEY: Okay, so it's the signers sign on to
12 the petition?

13 MS. HANIGAN: And an example being as Farmland is
14 a member of the AMI, so clearly we are strong supporters of
15 this petition, and I had asked when I saw the agenda for
16 tonight's meeting that I have additional information that I
17 could refer to, so that the committee could come back with a
18 more solid recommendation.

19 Teaching example of HACCP and also a model that we
20 will be referring to tonight, and I know I have been very
21 vocal about not having information in the hands of committee

1 members to look at ahead of time, so I just would like
2 everybody have a copy of it.

3 MS. DEWAAL: Could I ask that we adjourn now so
4 that we can review all of Katie's material before the
5 subcommittee meeting this evening?

6 MA. HANIGAN: And I did just get the information
7 this morning, but I do respect your comment on that. Yes.

8 MR. BILLY: We need to -- our requirements of the
9 Advisory Committee Act require us to make available all
10 information to the public, so we need to be able to share
11 this information.

12 It sounds like what we should do is to treat this
13 as information that's provided by the petitioners through
14 you, Katie.

15 MS. HANIGAN: Okay.

16 MR. BILLY: And it should be looked on in that
17 regard. It's not something obviously that the agency has
18 had a chance to see or evaluate or validate or anything of
19 the sort. So it needs to be clear to all of the committee
20 members and to the public that this is the trail that's
21 being provided from the petitioners through a member of the

1 advisory committee for consideration as you have your
2 discussions this evening.

3 MS. WILCOX: This has not been reviewed by general
4 counsel at USDA or FDA or anybody else that would know
5 whether this is comprehensive in terms of side by side. So
6 everybody should be very clear about that.

7 MS. HANIGAN: And clearly, I didn't mean to create
8 a problem there, but whatever disclaimers you folks need to
9 put on it, it is fine. I think it should be available to
10 the public, the information.

11 MS. JOHNSON: And I think a lot of the information
12 will help with some of the discussion on question one, and I
13 think the group that put this together was looking at is
14 there supporting document and what we should be considering
15 for part of the discussion.

16 MR. BILLY: Are there other -- yeah, Dale?

17 MR. MORSE: Well, it's nice to have more
18 information. But I guess the question are we at a
19 disadvantage of only getting one side of the story of
20 information, and I don't know if there is other information
21 that we should have to review. So it makes -- I mean, we

1 make a decision when we are reviewing just one side of --

2 MR. BILLY: Well, one thing that the committee
3 could consider, the subcommittee and then the full
4 committee, is to consider the information that's available
5 but based on the fact that there is a public comment period
6 and we will be collecting all kinds of information, we could
7 organize all those public comments and make that available
8 to the committee for further deliberation at the next
9 meeting. So we can share with the full committee and the
10 public all the additional information we get in a manner
11 that will enable you to look at all aspects and sides of the
12 issues that are represented by the petition.

13 MS. HANIGAN: Can I just comment on Dale --

14 MR. BILLY: Sure.

15 MS. HANIGAN: The other reason for my request on
16 additional information was when I looked at the agenda and
17 saw what I would be chairing tonight, and clearly six
18 questions were laid out for discussion for tonight, and even
19 when I looked at question number one there was no way we
20 were going to have any answer unless we brought some
21 additional resources to the committee meeting.

1 I mean, it was very evident when the agenda came
2 over to each one of us that we had six questions here we
3 were going to be expected to go through.

4 You may be right, Dale. There probably could be
5 other information, but I was doing the best to get answers
6 or additional information so we could attack each one of
7 these six questions.

8 MR. BILLY: Gary?

9 MR. WEBER: Just a comment in this regard. Our
10 organization did not sign onto this, but what concerns me as
11 a committee member here as I hear a lot of statements and
12 concerns about this information, I'm a little bit -- I'm not
13 on the committee but I'm a little bit offended that people
14 find this threatening, and this shouldn't be. Everyone who
15 is on this committee has the technical capability, the
16 intellectual capacity to look at this and make some
17 decisions tonight or at least raise some other questions.

18 This is in the Federal Register. Every person
19 sitting behind us and every person who gets that can put in
20 comments. I don't think anybody needs to be threatened that
21 anybody is going to force anything through anyone's not

1 whole here today.

2 So I want to be on record saying I'm concerned
3 about the concern about this, that anybody is going to be
4 intimidated by this process, and I want to applaud your
5 efforts for providing information and people can make that
6 decision whether this is appropriate independent of what OGC
7 or anybody else thinks about it. This committee ought to
8 feel comfortable having that information, and I am glad that
9 you've provided it, and I want to be on record saying I
10 think people should be offended by the fact or the idea that
11 we are not able to interpret that and judge it accordingly.

12 MR. BILLY: Caroline?

13 MS. DEWAAL: Thank you, and I was going to make
14 this remark before Gary just said that, but I'm definitely
15 going to make it now.

16 One thing that strikes me in this list of six
17 questions is there is an assumption of knowledge about the
18 regulatory structure of a sister agency, the Food and Drug
19 Administration. And it comes out in two different
20 questions.

21 FAD seafood regulation is similar to USDA's, but I

1 don't know how many people have read it or really studied
2 it. I have, but I don't know how many members of this
3 committee, I don't know, Gary, if you're an expert in FDA
4 seafood regulation.

5 In addition, the FDA regulations on good
6 manufacturing practices is something which is unique to that
7 agency. And if people are not regulated by FDA or if people
8 don't have that background knowledge, then in fact these
9 questions are assuming knowledge which may not be within the
10 ability of this committee.

11 I would be happy to look at the materials that
12 Kathleen has put together, Katie has put together, and I am
13 excited she did that. But I agree with Dale and I agree
14 with your statements that maybe we just need to slow it down
15 and consider this issue as a multi-meeting issue so that we
16 can really analyze the material that you have given us and
17 make sure we have all relevant information. I know I would
18 feel more comfortable because I didn't bring all my FDA
19 regulations with me for tonight's discussion.

20 Thanks.

21 MR. BILLY: Yeah, I could add to that, and for

1 example, I could envision that one of the recommendations
2 you might want to consider is that you ask the agency to do
3 a side by side by side comparison that looks at FDA's
4 regulations, FSIS's, CODEX recommendations, and any others
5 that are relevant in the context of this petition and what
6 it's trying to achieve, and make that information available.

7 I think that would be constructive and would, you know,
8 inform people where they could provide comment if not in the
9 initial comment period if in fact we move forward
10 subsequently, and certainly help this committee with its
11 work.

12 Are there other comments? Questions?

13 (No response.)

14 MR. BILLY: Okay. And again, you're going to be
15 present this evening?

16 MR. ENGELJOHN: Yes.

17 MR. BILLY: Okay, good.

18 Okay, what I'd like to do, Roger has just arrived.
19 Roger, are you ready?

20 MR. BREEZE: Yes.

21 MR. BILLY: Okay. Okay. We're going to make a

1 slight adjustment in the agenda here. Dr. Roger Breeze is
2 here on behalf of Floyd Horn and is prepared to provide us
3 an oversight of ARS food safety research, emphasizing in
4 particular the work that's being done on E. coli 0157:H7.

5 So Roger, the floor is yours.

6 MR. BREEZE: Well, that was actually very nice
7 timing because for the first time in my life I came here
8 with the slides on a power points presentation on compact
9 disk. As I was coming here on the subway I thought what a
10 wonderful thing. You don't have to carry those overheads
11 and everything with you anymore.

12 And of course, I neglected to call ahead and make
13 sure there was a power point projector, but thanks to the
14 wonders of American capitalism there is a Kinko's within
15 walking distance.

16 (Laughter.)

17 MR. BREEZE: So your delay came in very handy
18 because, you know, it was very nice timing.

19 Well, it's a pleasure to be here today and talk to
20 you on behalf of Dr. Horn about food safety research in ARS.
21 As many of you will realize, I hope you -- can you see

1 this? Do we need to dim some of the lights?

2 As many of you will realize already, the food
3 safety, the research investments in ARS has been rising
4 quite rapidly over the last few years. In 1986, we were
5 just over 20 million, and now we are -- the total investment
6 this coming year is over 80, almost 90 million dollars a
7 year, and especially in the last few years. With the
8 present administration, there has been a dramatic increase.

9 For those of you who are not very familiar with
10 ARS research programs, you can find them on the web. They
11 are all described in some detail there. We have gathered
12 our research over the past year into a series of national
13 research programs, of which food safety is one.

14 We actually have 23 of these programs. But you
15 know the way in government how we name things, it's actually
16 program 108.

17 As an ex-director of Plum Island, I know I'm going
18 to be intensively questioned about what are all these
19 missing programs here.

20 So the program components, just to sum up where
21 they are on microbial pathogens, mycotoxins, chemical

1 residues and poisonous plants. Again, the details, it's on
2 the web. It's MPS.ARS.USDA.GOV. If you get that far, you
3 will be able to find these programs without any problem.

4 Now, we also have, in addition to this research
5 within ARS, we have anti-microbial research program under
6 NOUNS, which is an interagency endeavor involving ARS, FSIS,
7 the Center for Veterinary Medicine, and the FDA and the
8 Centers for Disease Control.

9 Our food safety pre-harvest program concentrates
10 on issues of sampling, isolation, identification,
11 quantification of microorganisms, the ecology and assessment
12 of risk factors of pathogens, sights and mechanisms of
13 colonization, virulent attributes of pathogens and their
14 role in the host/pathogen relationship, intervention
15 strategies to reduce colonization of pathogens in animal
16 hosts and shedding from those hosts, efforts to decrease
17 pathogens in the slaughter houses, and of course the spill-
18 over effects of manure handling and utilization of
19 microbials.

20 Let me talk a little about the pathogen reduction
21 part of the program. The focus here, of course, is on the

1 usual suspects of salmonella, campylobacter, listeria
2 profingents, and the epidemiology and biology of these
3 organisms.

4 We are looking, of course, at the ecology of
5 pathogens on foods and within the processing environments
6 like new materials and bio-films. We are developing methods
7 for regulatory and research use, and intervention strategies
8 to aid in the application and development of HACCP programs.

9 We want to be able to measure the effects of
10 intervention strategies in terms of microorganisms on whole
11 food, and we need to provide data, of course, to provide
12 scientific risk assessments and predicted models of
13 microbial load.

14 In the case of E. coli 0157:H7 in particular, we
15 currently have 30 recent projects, totaling almost \$9
16 million a year. Seventeen of these are related to meats,
17 nine to manure and manure handling, four fresh fruits and
18 vegetables, and the President's budget proposal would add
19 significantly to this in the coming year, and from what I
20 have seen of the Harrison Senate markups so far the Congress
21 may actually increase the investment over the request of the

1 President, and of course we also have five cooperative
2 projects with the members of the National Food Safety
3 Alliance.

4 Let's talk about some of the recent results with
5 research on E. coli 0157:H7. At the Meat Animal Research
6 Center in Nebraska, we have recently found significantly
7 higher levels of 0157:H7 in cattle coming to slaughter than
8 have been previously reported.

9 There is a large reduction noticed in carcass
10 prevalence of this microorganism from previserations of
11 post-process. And this is just the procedures, how
12 effective in the processing plant.

13 We have not been able to find any detectible
14 effects from pen cleaning in lowering E. coli virulence but
15 both test and control groups in this study showed lowered
16 pathogen numbers with time on the study.

17 The studies on -- our studies on the effect of
18 giving feed just prior to slaughter are not conclusive. We
19 need to do some more studies in this area to understand all
20 the variables of this effect.

21 We have a feci method which will differentiate E.

1 coli 0157:H7 and other shiga-toxin-producing E. coli. We
2 have some experimental E. coli models which are very useful
3 in determining virulence attributes of this microorganism,
4 and describing the effects of shiga-toxin-produced disease
5 in cows. And we have also developed hand-held fecal
6 detector.

7 Now, the conclusion of our research is we have
8 greatly increased our knowledge of the biology of the
9 pathogen and its environmental and host interactions. But,
10 and it's a big but, which applies to ARS and to everybody
11 else researching in this area, neither ARS nor any of the
12 researchers have found out how to prevent 0157:H7 infections
13 in shedding in any animal.

14 Now, our research is moving into some new areas of
15 emphasis in the near future. We are going to concentrate on
16 the characterizing bacterial/host relationships and
17 prevention strategies. I'm going to talk about these in a
18 little more in the next few slides. Development of
19 intervention strategies. We will talk about fecal detector
20 to scanning of entire sides of beef. We're talking about
21 more rapid and more sensitive assays and the utilization of

1 chloride in inhibiting E. coli and salmonella burdens in
2 cattle.

3 MS. MUCKLOW: Mr. Billy, could we -- could I just
4 ask, is it going to be possible for us to have a copy of Dr.
5 Breeze's slides because then we don't have to write madly?

6 MR. BREEZE: I will make sure you have a copy. I
7 would be happy to give you this disk.

8 (Laughter.)

9 MR. BREEZE: I will be happy to --

10 MR. BILLY: The answer is yes.

11 MS. MUCKLOW: How about the shinko slides?

12 MR. BREEZE: You can even have the bill if you --

13 (Laughter.)

14 MR. BREEZE: So yes, it's a great mistake to be
15 scribbling away. We can move on with technology.

16 Let's talk about bacterial/host relationships.
17 We're looking at the basic biology of infection with
18 microorganism in animals. The specific host/pathogen
19 interactions which are going to define the sites and the
20 mechanisms of bacterial adherence, colonization and
21 pathogenicity.

1 We are looking, particularly with the E. coli
2 mutant, these factors of adherence and colonization in order
3 to identify the genes, bacterial genes that are required for
4 their growth and colonization. And we're focusing on
5 identifying the source of initial infection in animals,
6 including the infection of cows by the dams.

7 In terms of intervention strategies, we're looking
8 at short-term interventions, which we mentioned just a few
9 moments ago about feeding hay or grain just prior to
10 slaughter, and other management of other controls which may
11 help to reduce its burden.

12 We are trying to determine is intimin vaccination
13 will prevent or reduce E. coli infection, colonization and
14 shedding. Intimin is a protein on the surface of E. coli,
15 which is an attachment, and we have some evidence that
16 vaccination of cows against this particular protein will
17 prevent these bacteria attaching.

18 We are trying to characterize the effects of a
19 specific bacteriocin on E. coli in affected animals, and
20 we're continuing to pursue the competitive exclusion
21 cultures of probiotics for short-term use, especially just

1 prior to transportation for slaughter.

2 It takes longer to print these than it does to
3 tell you what's on them.

4 At the National Animal Disease Center, we have
5 been working on a fecal detector which we're hoping to
6 extend so they can scan the entire sides of beef. This is
7 in cooperation with Iowa State University and a private
8 company. These devices are based on patented technology
9 from ARS and Iowa State. And we think they could be used by
10 slaughter facilities in the HACCP programs to reduce fecal
11 contamination and to meet FSIS tolerance requirements.

12 This is a device which works by detecting a
13 breakdown of product of particle presence in very, very
14 small amounts of feces, and it's very sensitive, and we're
15 trying to scale this up from a hand-held device to a larger
16 machine which can scan the whole carcass.

17 Faster, more sensitive assays, I suppose, is a
18 grill that we are always going to pursue. If you do things
19 very fast the next thing, you know, people want to do them
20 even faster. So we are probably never going to stop the
21 search for quicker, simpler, more sensitive assays.

1 At NADC, again, we have a PCR-based assay which we
2 are trying to target E. coli and other shiga-toxin-producing
3 organisms. And of course we are trying to modify the
4 frequently used TACMAN assay by monitoring of expression of
5 selected E. coli genes in people.

6 One interesting area is the use of chlorate as a
7 method to kill bacterial pathogens in animals. This depends
8 on the properties of certain bacteria, like salmonella and
9 0157:H7, which have a metabolic process which enables them
10 to reduce chlorate to chloride, and the bacteria are killed
11 in the process of production of this chloride. This would
12 hit salmonella or E. coli, but would have minimal to no
13 effects on other gut bacteria which don't cause disease or
14 human illness because they don't have this biochemical
15 property.

16 Now, we know that the low concentrations of
17 chloride which will be produced are not toxic to cattle.
18 But of course, you know, like anything else, using this in
19 the field would require FDA approval.

20 Let's talk about some of our post-harvest goals
21 with E. coli. We want to improve slaughter and dressing

1 practices and controls to minimize contamination, improve
2 our food processing methods, develop predictive models for
3 growth on meats, and more rapid detection methods.

4 At the Meat Animal Research Center post-harvest
5 research projects are going to focus on virulents and
6 genotypic characteristics of different E. coli isolates from
7 various sources. The technology is moving very quickly now
8 in this area and it's possible to quickly and simply
9 understand genetic changes going on in the bacterial, and
10 genetic expression of specific genes in the animal's host as
11 a result of infectional colonization.

12 We're going to use these techniques to look at the
13 mechanisms of binding and attachment of E. coli to carcasses
14 and the molecular mechanisms of bacterial tolerance to acid
15 washing. And the gene expression arrays and detectors which
16 are coming into use now are going to allow us to look much
17 more closely at virulence and the effect of anti-microbials.

18 At the Eastern Regional Research Center in
19 Philadelphia we have mathematical models to determine the
20 effects of many food formulation variables on thermal and
21 irradiation inactivation with a goal of improving multiple

1 barriers to reduce or eliminate contamination.

2 We are providing thermal and irradiation data for
3 regulatory agencies, and we are concentrating on more
4 sensitive and more rapid detection methods.

5 In particular, I should mention a multiplex PRC
6 assay, which means it does many different assays at the same
7 time, which simplifies detection of 0157:H7. It identifies
8 the H0 group and the type of toxin genes possessed by the
9 bacteria.

10 The sensitivity of this assay is less than or
11 equal to one colony-forming unit per gram of food or bovine
12 feces, and results can be obtained in less than 24 hours.

13 Similar detection levels are obtained with gram
14 samples which underwent enrichment culturing immediately
15 after inoculation, and samples that are frozen and
16 refrigerated prior to enrichment.

17 This multiplex PCR facilitates detection of
18 0157:H7 and can reduce the time required for confirmation of
19 isolates by up to three or four days.

20 At the Beltsville Agricultural Research Center we
21 are looking at temperature indicating devices for consumer

1 use and methods to predict the potential pathogen
2 contamination of cooked gram meats.

3 Again, at the Eastern Regional Research Center in
4 Philadelphia, they are studying anti-microbial activities of
5 various plant essential oils against E. coli 0157:H7. Of
6 the oils which have been tested so far, red thyme and
7 seborrhea essential oils were the most effective in
8 inhibiting growth of 0157:H7. Application of these oils to
9 food may result in an inactivation of the organism, and this
10 is currently under investigation.

11 We have nine projects underway with the National
12 Alliance for Food Safety. Five of these fund E. coli
13 0157:H7 research. The topics of these are listed here:
14 mechanism of colonization, presence and distribution of the
15 organism in feed lots, feedborne dissemination,
16 epidemiological association, and the prevalence of the
17 organism in dama cattle.

18 In FY-2001, the initiatives which we are proposing
19 deal with methods that deal with antibody resistance,
20 studies of gut ecology, competitive exclusion cultures, and
21 immune responses. We are looking at transportation, dama

1 cattle issues, and pre-slaughter feed, aerosols in the
2 processing environment, new technologies that are necessary
3 for processing for various ethnic or religious groups, and
4 biosensor technology for pathogens in application of various
5 products.

6 For 2002, we will be proposing to continue the
7 emphasis on antibody resistance, to look at pathogens in
8 milk prior to pasteurization, chemical and antibiotic
9 residues in animal manure, and fumonisins and aflatoxin in
10 corn.

11 Our post-harvest research initiatives in 2002 will
12 focus on pathogen transmission in bioaerosols, protozoa
13 effects on organism virulence, emergence of pathogens,
14 potentiation of virulence, responses to stresses in the
15 host, risk assessment data, surrogates for use in carcass
16 decontamination studies, decontamination strategies for
17 small processors. We will continue with the hand-held
18 pathogen detection devices because there is a lot of new
19 technology that could be very practical in this area. And
20 we are pursuing imaging technologies to determine surface
21 contamination.

1 So that's a lightening pass through of all the
2 things that we have got going on. I will try to answer some
3 questions if I can, and if I can't, Jim Lindsay, who is
4 hiding at the back, should be able to.

5 So thank you.

6 MR. BILLY: Roger, maybe you can come over to the
7 microphones here at the table.

8 MR. BREEZE: Okay.

9 MR. BILLY: And your colleague could join you.

10 MR. BREEZE: Yeah, Jim, do you want to come down?
11 This is Jim Lindsay. He's in the back.

12 Come on. No excuses.

13 MR. BILLY: Roger, why don't you --

14 MR. BREEZE: You want me up here?

15 MR. BILLY: Yes, right over here, yeah. Join us
16 here at the table.

17 MR. BREEZE: Okay.

18 MR. BILLY: Okay, questions? Nancy?

19 MS. DONLEY: I was just wondering if you could
20 tell us of your -- your kind of breakdown percentages of
21 your pre-harvest versus post-harvest budget of how much you

1 allocate pre-harvest versus post-harvest.

2 MR. BREEZE: I'm glad Jim Lindsay is here to
3 answer that.

4 MR. LINDSAY: It's about 60/40 pre-harvest - post-
5 harvest.

6 MS. DONLEY: And is that what you are going to be
7 done going forward as well --

8 MR. LINDSAY: Yes, it's approximately the same.

9 MS. DONLEY: -- in 0157?

10 MR. LINDSAY: Yes, it's consistently around about
11 60 percent.

12 MS. DONLEY: Sixty percent pre-harvest?

13 MR. LINDSAY: Correct.

14 MR. BILLY: Caroline?

15 MS. DEWAAL: What difference has the budget
16 initiative, the President's food safety initiative made to
17 your work on food safety research?

18 And going back a few years, I remember actually
19 when Casar Motecky was over managing some of the -- or
20 managing ARS, and we went through this whole strategic
21 planning process that I participated in for at least one

1 day, but what I recall about it was that I believe -- it
2 seems that the emphasis of the food safety research at that
3 point was more on plant pests and mycotoxins and other
4 hazards but they really weren't on the microbiologic hazards
5 which you talked about today.

6 So that was a number of years ago now, but I'd
7 like to know what -- what's changed.

8 And my second question is: What's your full food
9 safety budget today and what is the total budget on research
10 generally?

11 MR. BREEZE: If money alone can solve research
12 problems, we would have a lot of solutions. And I don't
13 believe just money alone would do that. But obviously money
14 is very, very important if you are trying to have a
15 comprehensive sustained program of effort over a period of
16 time.

17 So the money was tremendously important, but I
18 don't think it would have made the difference it has without
19 able leadership, not just in USDA, across the agencies, but
20 actually in the industry and in other groups that have been
21 involved in trying to set an agenda, whether it's some

1 clearer goals about what we want to do, to build some teams
2 and actually to move this progress along. And it's not just
3 in research. If research doesn't know what regulatory
4 agencies want and on what other consumers of the research
5 need, it can be a blind alley.

6 But I think the dialogue that's taken place, not
7 just in this particular research program in ARS, but in
8 creating all of these national research programs. Dialogue
9 with customers and stakeholders and the public and other
10 groups has been very, very important.

11 But I think there has been a team effort and I
12 think the President led this with these initiatives and it
13 was pushed through by the secretary and other people, the
14 public, consumer groups, and the industry and our action in
15 the regulatory agencies.

16 And Jim, what about that -- the budget figures?

17 MR. LINDSAY: The dollars. The research budget is
18 834 million total for ARS, and the food safety is 83
19 million. It's actually 9.9 percent exactly of the total
20 budget.

21 MS. DEWAAL: And that food safety money breaks

1 down into all those categories you gave us earlier?

2 MR. BREEZE: Correct. I can give you a full
3 breakdown. If I had known, I would have brought it for you.
4 It's easy enough to do.

5 MS. DEWAAL: Could you just give us --

6 MR. BREEZE: Sure.

7 MS. DEWAAL: -- breakdown on microbiological
8 hazards versus the other thing that was on that -- on that
9 list?

10 MR. BREEZE: I think micro hazard is about 50 --
11 between 58 and 59 million of the 83 million is on microbial
12 hazards.

13 MS. DEWAAL: Fifty-eight to?

14 MR. BREEZE: I think it's 58 to 59, but I can get
15 you the exact data. That's not a problem.

16 MS. DEWAAL: That strikes me, and Cathy, tell me
17 if I'm wrong, but that does represent a big increase over
18 what we were talking about a couple of years ago?

19 MS. WOTECKI: Yeah, four years ago when we did
20 those estimates I think the total food safety at that point
21 was about 56 million. We may have done a slightly different

1 analysis for the preparation of this chart. But in the
2 strategic planning it was a total of just under 60 million
3 was in food safety.

4 MS. DEWAAL: So, and that would compare to the 83
5 million figure?

6 MS. WOTECKI: That they had as the most recent,
7 yes.

8 MR. LINDSAY: Yes.

9 MR. BILLY: Are you finished, Caroline?

10 MS. DEWAAL: Yes. Thank you.

11 MR. BILLY: Rosemary?

12 MS. MUCKLOW: Dr. Breeze, you are every bit as
13 good as you name. You really breezed through that thing
14 about as fast as anybody I've seen go. I'm glad we are
15 going to have it to take home because there was a lot of
16 wonderful stuff there, and thank you very much.

17 While I was still scribbling, I heard you say that
18 you want to be able to measure the effect of interventions.

19 Talk to us a little bit about how you have some ideas about
20 measuring the effectiveness of interventions.

21 It is always the dilemma in the business that I'm

1 in, which is beef slaughtering and processing, or a trade
2 association representing those who do, because we never want
3 to take that ugly organism into our plants. In fact, we
4 won't. I don't think Mr. Billy would let us. And testing
5 these things in the laboratory is always very different from
6 finding it in the real world.

7 Do you have some new ideas about how we can
8 effectively test the effectiveness of the interventions that
9 we are using?

10 MR. BREEZE: I'm going to steal and ask Jim
11 Lindsay first to respond to that.

12 MR. LINDSAY: Jane, did you want Jane?

13 MR. BREEZE: I'm sorry. Jane Robbins is here.

14 MR. LINDSAY: I think the important --

15 MR. BILLY: Silent ranger at my elbow.

16 MR. LINDSAY: I think the important thing here is
17 to consider it as a two part. It also has to be considered
18 as both pre-harvest and post-harvest.

19 MS. MUCKLOW: Well, I'm talking post.

20 MR. LINDSAY: You're talking post-harvest.

21 MS. MUCKLOW: Yes.

1 MR. LINDSAY: And what type of intervention
2 strategies are you referring to? Are you talking about
3 during the processing itself using acid washes, using steam
4 washes?

5 MS. MUCKLOW: Well, I'm open to all sorts of new
6 ideas. At the moment, you know, we are using previsuration
7 washing.

8 MR. LINDSAY: Mm-hmm.

9 MS. MUCKLOW: Hot water pasteurization.

10 MR. LINDSAY: Right.

11 MS. MUCKLOW: Steam pasteurization.

12 MR. LINDSAY: Right.

13 MS. MUCKLOW: Lactic acid or other --

14 MR. LINDSAY: Right. Organoleptic things, right.

15 MS. MUCKLOW: Organoleptic things and so on. And
16 we're looking at, of course, the new one which is still in
17 trial stage that was presented at the February 29th meeting,
18 which was lactoferin, which certainly looks very
19 interesting.

20 But again, we don't have any way in the real plant
21 to be able to test. We can do it in the lab.

1 MR. LINDSAY: Right.

2 MS. MUCKLOW: We can't do it in the real world.

3 And I just thought maybe you guys are so damn good maybe
4 you've got a good idea about how we've got some better ways
5 to test the effectiveness. I want to pump your brain a
6 little bit.

7 MR. LINDSAY: It's a bit numb from the flue but
8 I'll try and do it.

9 I mean, other than doing, you know, swab testing
10 of carcasses the difficulty is, you know, how do you
11 specifically identify or how do you identify a specific
12 pathogen if you're talking about a beef carcass. You can't.
13 There is no mechanism to do that.

14 What we have been able to do is to genetically
15 modify known pathogens or pathogens that are knowingly found
16 on carcasses and put fluorescent markers on -- you know,
17 incorporate them into the genome, and then, you know, we can
18 attach them. We can spray them on a carcass that goes
19 through a processing, and then monitor the reduction in the
20 levels of these genetically marked strains.

21 There was some interesting work that was done by

1 Greg Surugossa(ph) when he worked at Clay Center using a
2 fluorescent marked strain of E. coli to show that by doing
3 various types of interventions that you could significantly
4 reduce the number of pathogens in certain areas.

5 Now, the problem is that each of these pathogens
6 bind at different levels, depending on the fat, depending on
7 the facia or the types of proteins found on the surfaces of
8 carcasses.

9 So what intervention strategy may be useful in one
10 area of the carcass may not be as efficient in another. So
11 by understanding the physiology of attachment and detachment
12 of these organisms then we can develop intervention
13 strategies.

14 It's not quite as easy as just spraying a carcass
15 with hot water and saying yes that works. It's not like
16 that.

17 MS. MUCKLOW: Well, that, of course, is the
18 principle behind what the industry has moved to in the last
19 ten years, which is the multiple hurdle approach.

20 MR. LINDSAY: Correct.

21 MS. MUCKLOW: So if they don't get it with this,

1 they get it with that.

2 MR. LINDSAY: Correct.

3 MS. MUCKLOW: So you know, that is -- and I'm glad
4 that you acknowledge right up front that these interventions
5 have been remarkably successful.

6 My keen interest is that you want to focus, or
7 that's what Dr. Breeze told us early on, on measuring those
8 interventions. And I think it would be unusually helpful if
9 indeed you can help us come up with some methodology, and
10 maybe the gene marker is one way of doing that. I don't
11 remember that research but I'm not the scientist. Maybe we
12 need to go back and look at Dr. Surugossa's work and see if
13 it has some further applications in some of the new kinds of
14 hurdles that both you and private industry is looking at.

15 MR. LINDSAY: One of the assumptions in doing this
16 is where are the organisms actually coming from, and the
17 assumption is it's probably coming from feces that have
18 contaminated the surface of the carcass.

19 So if you believe that pathogens are associated
20 with feces, we have two new projects whereby we can monitor
21 the presence of feces both on beef and on poultry carcasses,

1 and we have some new initiatives regarding that, and it's
2 relatively -- this can all be done on line. This is done --
3 computerized whereby we can actually locate areas of fecal
4 contamination. And by seeing this using these on-line
5 detectors, these can be spot washed to eliminate the
6 presence of the feces and probably eliminate the presence of
7 the pathogens at the same time.

8 MS. MUCKLOW: Another piece of the hurdle approach
9 that the industry is moving to, but again it's a huge
10 transition step, is the separation of the various rooms in
11 which different parts of the process occurred. The high
12 don, the high doff, the guts out, you know, the three
13 segmented floors. And it's really nice to see in the plants
14 that are being designed today, and even some older ones that
15 are being redesigned, that this separation is beginning to
16 occur, and that reduces those microorganisms that learn to
17 fly in the process from getting attached.

18 MR. LINDSAY: That's correct.

19 MS. MUCKLOW: It's another piece of the hurdle.

20 MR. LINDSAY: Correct, and that's why one of the
21 initiatives in the future is to look at bioaerosols in the

1 presence of pathogens, and bioaerosols within the processing
2 plant. There is some work that came out of Canada showing
3 that when the hide is taken off a carcass, this is cause for
4 transmission of pathogens through the air between those --

5 MS. MUCKLOW: Yes.

6 MR. LINDSAY: -- as you say, those three areas.
7 So we want to look at that and show, or look and see whether
8 or not we can reduce the presence of dust and therefore the
9 presence of pathogens within the rest of the plant. That's
10 true.

11 MR. BREEZE: Just to answer, I think, your
12 question in general. If you were looking to develop an
13 intervention strategy, first of all, you do it on a very
14 small scale in the laboratory. You know, is it effective,
15 is it safe, is it likely to be practical, is it, you know,
16 economic, feasible, those kinds of things.

17 Then the scale-up after that, we have some pilot
18 plants in Athens, Georgia. For example, we have a little
19 poultry processing plant within the research facility which
20 has all of the machinery on a much smaller scale.

21 MS. MUCKLOW: Mm-hmm.

1 MR. BREEZE: So you can simulate well there, you
2 know, the effects of, you know, plucking and scalding and
3 those kinds of things, and work at that type of scale
4 actually with viral pathogens if you choose to do that.

5 MS. MUCKLOW: Mm-hmm.

6 MR. BREEZE: But of course when it comes out to
7 taking this technology into the real world, into a
8 commercial plant, you are not in the position of doing
9 deliberate infections. Either you will be looking with a
10 surrogate or you are actually measuring real
11 interventions --

12 MS. MUCKLOW: Yes.

13 MR. BREEZE: -- as they occur, and that's part of
14 the difficulty of extrapolating these things, but it's a
15 condition that we work with and we have those kinds of
16 facilities at Athens and Mohaken and other places.

17 MR. LINDSAY: I should mention that there is some
18 very innovative work that has been done by Dr. Yak Chin at
19 our Beltsville facility, and I think in the past six weeks
20 we had a meeting with FSIS regarding actual -- the scale-up
21 of his pilot, his pilot computerized on-line detector,

1 whether or not this could actually get to the next level.
2 And he's produced a video where the detector was actually
3 used in one of the Tarsan's plant, and I could make that
4 available to the committee. This is not a problem. And the
5 meeting was with Bill James, and he was very impressed by
6 the accuracy of this machine. I think this will
7 significantly reduce the presence of potential contamination
8 on these carcasses.

9 MS. MUCKLOW: Each new intervention that we have
10 we, you know, have welcomed it and heralded it and thought
11 it was absolutely it, but still this stuff gets through the
12 system very, very rarely but rarely enough to give us cause
13 for concern.

14 And so your new methods, and particularly the
15 methods of measuring interventions, will be fascinating and
16 you can go home with my card and send me any of that stuff
17 you have. I'd love to see it.

18 Thank you very much.

19 MR. LINDSAY: Sure.

20 MR. BILLY: Katie?

21 MS. HANIGAN: Yes, my question focuses on the

1 fecal detector that you referenced in your presentation.
2 I'm gathering from what you're saying it's computerized. I
3 just wondered how much detail you can give us on it, as to
4 when it will be available, if you have any idea of what the
5 cost is. I mean, what details can you tell us now about it?

6 MS. ROBBINS: We have a creta with a company in
7 Florida that is scaling up the process. Our scientists at
8 the National Animal Disease Center did the basic work on it,
9 showed what it would detect. But they really didn't get too
10 much further than saying it would work in a little circle
11 like this, and we have to scale it up so that it will look
12 at a whole side of beef at a time, or that would be one
13 avenue.

14 The other would be the hand-held wand that could
15 go up and down on the side of a carcass.

16 But the laboratory out there does not have the
17 engineers and things that could really scale it up and make
18 it practical, and we are working with a creta partner. I do
19 not have a schedule.

20 MS. HANIGAN: And no idea of the cost of that?
21 Because obviously it sounds like absolutely a great -- a

1 great thing to have available. I just wondered --

2 MR. LINDSAY: The one for the poultry, we're for a
3 creta partner at the present time. That will probably come
4 in at about a quarter of a million, and this is portable,
5 can be used anywhere in the plant.

6 Currently, it detects pathophysiological
7 abnormalities. This has been the primary focus of Yak
8 Chin's work. The group at the Russell Center, the new unit,
9 they will hopefully have the fecal detector, I think, by the
10 end of next year. This work is being done in cooperation
11 with the Institute for Technology Development at the Stanis
12 Space Center. So we are looking to combine the two
13 detectors. Have one at the beginning of the processing line
14 and one towards the end, probably after the final wash. And
15 again, it will probably come in at about a quarter of a
16 million dollars.

17 MR. BREEZE: Now, can you just describe what the
18 unit is? I don't everyone to go away thinking about a hand-
19 held wand.

20 MR. LINDSAY: No, no, it's not a hand-held wand.
21 It's a self-contained portablized unit that is refrigerated.

1 And again it would be easier if I just send you a copy of
2 the video which has all the details of it, including all the
3 schematics and currently we are in the process of trying to
4 find a creta partner, and I would think within the next
5 month or so. We have had some interests from a Dutch
6 company as to -- they would like to be involved in this.
7 They are a processing company.

8 MR. BREEZE: You raised a very important issue
9 though, so let me just talk about technology transfer
10 because in ARS we are not in the business of doing research,
11 passing it off into the ether and hoping somehow it settles
12 down, you know, in terms of a product that people can use.

13 Scientists obviously are in the business of doing
14 research in their own laboratories. But within ARS we have
15 a technology transfer arm, which is specifically directed to
16 take the research results, and get them out there into the
17 field where people can use them. And the mechanism which is
18 used for this is a cooperative research and development
19 agreement of which ARS is the leading edges in the federal
20 government in terms of the number of these agreements we
21 have with private enterprise. But it requires a certain

1 amount of nurturing to get these products out there.

2 And in the case of the devices we were just
3 talking about now, a company that's attracted by a piece of
4 research like this will be trying to build a business plan,
5 and they want to know, well, before we can tell you how much
6 it will cost, how many of them will we sell, how many plants
7 will use them.

8 Well, if there are no technologies out there that
9 are comparable, it's very difficult, you know, to come up
10 with these numbers, and that's where it's sometimes a
11 painful process to bring these devices along.

12 A lot of the devices that are out there now are
13 coming from the military. Well, the military is a different
14 kind of customer with a different kind of wallet than the
15 people around this table.

16 So this is something that we are very aware of and
17 we do our best to work with these companies to make these
18 technologies available.

19 MS. HANIGAN: Thank you.

20 MS. ROBBINS: Another intervention that wasn't
21 mentioned yet is the steam pasteurizer, and that's been

1 developed at the Eastern Regional Research Center. I think
2 Mr. Billy has seen that one.

3 MR. BILLY: Yes.

4 MS. ROBBINS: That's for birds. It's nothing --
5 yes, you have seen it.

6 MR. BILLY: It's amazing.

7 MR. LINDSAY: And the steam pasteurizer, the unit
8 has been modified so it's portabilized, and there are a
9 series of different cavities to not only do poultry. It can
10 be used for fish. We also have an initiative that it can be
11 used for steam pasteurizing hot dogs, and all of those
12 projects are currently being initiated by Mike Kazymple at
13 the Eastern Center, and I can try and get you all the
14 information, or I will get you all the information regarding
15 the latest in that.

16 MS. HANIGAN: And what is your best guess of cost
17 on that portable unit there?

18 MR. LINDSAY: Now, that's a different set of
19 circumstances. I would think that's looking at, at least a
20 half a million dollars.

21 MR. BREEZE: I don't want people to go away with

1 the idea of 250,000 to half a million, that this is the unit
2 that we are thinking. This isn't part of what I set out to
3 talk about today, but those of you around the table, I'll
4 pass this around in each direction. This is actually a new
5 technology which I haven't referred to today. It's a method
6 of detecting pathogens by a PCR primer directly embedded in
7 an electronic circuit.

8 And this is a device which is very, very cheap to
9 produce, and we are a long way from having something
10 practical with this in terms of food safety. We are looking
11 at it with different pathogens right now. But this is
12 something that will be less than a dollar. It will be a
13 bacteriological, a definitive identification for less than a
14 dollar. So we are looking at disposable, cheap things. We
15 are very, very well aware of the pressures that you face,
16 but sometimes you do need to spend a quarter of a million
17 for certain things, but that's not all that we're looking
18 at.

19 MS. MUCKLOW: This is some sort of chip that fits
20 into something?

21 MR. BREEZE: It fits into a little container and

1 that's where you put the sample, and then it reads out in
2 that directly without any --

3 MS. MUCKLOW: Without plating or --

4 MR. BREEZE: Correct.

5 MS. MUCKLOW: -- growing up or any of those kinds
6 of things.

7 MR. BREEZE: Correct.

8 MR. BILLY: Okay, I've got three more and then we
9 will wrap this up. Cheryl, then Nancy, and then Collette.

10 MS. HALL: Thank you.

11 We appreciate the work that you do there. It's
12 really helpful for the industry. But I have a question
13 about releasing information when a project is finished,
14 something that is not going to require a patent or passing
15 technology to another firm.

16 What is the policy on releasing information on
17 projects? Are you waiting for specific publications for
18 those to appear in or formal presentations because some of
19 those things would be useful if we had that in our hands
20 earlier?

21 MR. BREEZE: Yeah, and usually we are encouraging

1 the scientists to write those results up and get them
2 published as quickly as possible.

3 MR. LINDSAY: There is an annual food safety
4 report done, and it's available on our web site, and has
5 been available for the last three years. We also have hard
6 copies of it.

7 MS. HALL: The reason I asked this question is we
8 are aware in the industry of a lot of different projects
9 that you do at times, and we need that information, those
10 answers as quickly as possible. Yet your scientists are
11 reluctant to release them until their publications appear
12 even though the project is finished.

13 Is that a policy of the --

14 MR. BREEZE: Well, it's really part of the
15 scientific method. You know, scientists have results and
16 they do experiments, but part of the scientific method is
17 you send those results forward to a journal. The journals
18 will review them. You have to persuade other scientists
19 that there is some measure of credibility there and the
20 experiment was well designed. Then those are published for
21 everybody to see and critique and to try and replicate the

1 results, and that whole cycle is tremendously important in
2 finding out whether scientific ideas are valid or not no
3 matter how strong the results are put forward. Cold fusion
4 would be a very, very good example of that.

5 So we are not trying to, you know, keep things
6 concealed. We urge our scientists to publish, to get them
7 out there where everyone could see and the data is
8 competitively critiqued.

9 But if there is some specific issues, we would
10 have to follow up on those. But there is a policy of
11 pushing the things out through this scientific process.

12 MS. HALL: Thank you.

13 MR. BILLY: Nancy?

14 MS. DONLEY: Yeah. Well, I'll tell you by dinner
15 time tonight, it's going to be totally gone.

16 I think here we want to figure out how workable it
17 is to make these wands and these imaging things is it sounds
18 like it's exciting for industry that they have the tool, but
19 I think also it sounds like a wonderful inspection tool. So
20 what we really need to do is get government behind this, and
21 get the government contract or something like that, and then

1 put it in as an inspection tool. And I think that's
2 wonderful. Even post-harvest technologies, it's a very
3 necessary thing.

4 In an ideal world, I would like to see these
5 pathogens prevented from even getting past the slaughter
6 house door.

7 What do you think in the case in your research in
8 0157 specifically holds the most promise at the pre-harvest
9 level to eradicate or at least prevent these pathogens from
10 getting in the slaughter, ideally irradiate because, you
11 know, we are focusing here on meat and poultry, which is our
12 agenda, but you did mention manure previously in one of your
13 slides, and 0157 contaminated manure has also caused
14 foodborne illness in other food products as well?

15 So what do you see the pre-harvest that holds the
16 most promise?

17 MR. BREEZE: I'm going to let these two guys
18 answer as well as me because I personally agree with you
19 that elimination of the problem altogether would be the
20 goal. And if we're talking about eliminating it, you're
21 talking about preventing these bacteria colonizing the host

1 in the first place, and that is probably an achievable goal
2 scientifically.

3 I can't tell you when, but you have to start
4 walking along that road to get towards that goal if you have
5 got any hope of ever reaching that.

6 I think some of the technologies we are talking
7 about, about competitive exclusion, very productive
8 technologies which have shown their value elsewhere and I
9 think we can look forward to disease or colonization-
10 resistant animals in the future.

11 But let me ask Jim and Jane to comment.

12 MS. ROBBINS: I think it's going to be very hard
13 to eliminate the organism because there are so many in
14 nature for 0157. The best we can do is to decrease the
15 exposure of our animals to it. We are not going to be able
16 to eliminate it.

17 But be that it's there, I think the first thing
18 that where we might see some breakthroughs in feeding prior
19 to slaughter. As Roger stated in his slide, we have a lot
20 of different results now. There is nothing we can say
21 that's going to do it now, but I think that is an avenue

1 that if it's probed further we hopefully will find some
2 combinations of feeds that will decrease the shedding. It's
3 not going to eliminate it, but I think they could decrease
4 it.

5 MR. BREEZE: There are only a couple of organisms
6 that we have really succeeded in defeating in the world.
7 Smallpox is one. Polio is soon going to be another. And
8 that was really the result of research and then intervention
9 strategies that focused on specific attributes of those
10 organisms. So it can be done, and the way to get there is
11 to focus very specifically on these niches and where these
12 things are coming from, and to close them off one by one.
13 It's not an unobtainable dream.

14 MS. DONLEY: Are you doing any research on -- I
15 know a couple of years ago it was talked about -- on
16 vaccines, animal vaccines? Anything being done on that?

17 MS. ROBBINS: Yes, we do have the project at the
18 National Animal Disease Center which is focusing on the
19 effect of intimin now.

20 You may have heard from NIH how successful they
21 have been in the initial stages of a vaccine for humans.

1 But let me remind you that our task is a whole lot more
2 difficult than theirs because we have to prevent shedding.
3 We are not just keeping an animal from being clinically
4 sick, which is probably a goal with humans at least, but we
5 have to prevent shedding, and we're working on it hard but
6 it's not going to be easy to produce an effective vaccine,
7 and effective on our terms.

8 MR. BILLY: Collette?

9 MS. KASTER: I have a quick question and a comment
10 after that. My question is does the organism colonize in
11 lymph nodes or has it been primarily found in the gut?

12 In other words, do you find it in lymph nodes? Do
13 you isolate it from lymph nodes or only from ingesta or
14 fecal?

15 MR. BREEZE: No, it's sepsis colonize.

16 MS. KASTER: That's fortunate, good.

17 Unlike salmonella which would -- would you battle
18 it that way?

19 MS. ROBBINS: Right.

20 MS. KASTER: Okay, and then my comments followed
21 by what Nancy said, she hit the nail on the head as far as

1 the technology transfer. If you have ever tried to stand on
2 a line and actually look for fecal or ingesta contamination,
3 whether you are an FSIS inspector or an industry inspector
4 looking for this. This is a chore. I am telling you what
5 to -- and it doesn't matter so much lines, we're just
6 talking about a lot of surface area. So this would be a
7 remarkable tool.

8 I mean, I'm like Katie, how fast can you get it to
9 us, and I'm not really even that interested in what it costs
10 because the ramifications of that kind of technology are so
11 important to us.

12 MR. BILLY: Dale, final word.

13 MR. MORSE: Final word. I think the presentation
14 and the discussion on this technology is really exciting and
15 fascinating and holds a lot of promise. Just a cautionary
16 note. There are difficulties in implementing this
17 technology, potential for false positive, false negatives.

18 So I am glad to see that the breadth of your
19 research agenda includes a whole spectrum of things. One,
20 because they also focus on the prevention areas of reducing
21 the levels of microorganisms because this technology is sort

1 of a fall back, and I'm not sure that the technology will be
2 able to reduce that cheap, that quickly and implemented, you
3 know, industry wide scale, so I think it's good to go
4 forward with the technology, but realize that it may not
5 solve all the problems.

6 And so I'm glad to see you have a total breadth
7 from farm to table in terms of either research and trying to
8 reduce the levels of pathogens in case this methodology
9 turns out to be too expensive or not easily implemented.
10 And so just to compliment you on maintaining the other
11 programs and not focusing on one area, but it is exciting.

12 MR. BILLY: Thanks.

13 Okay, Roger and Jane and Jim, thank you very much.
14 It was an excellent presentation and I'm going to make a
15 suggestion now to the committee in your presence, which is
16 that I think that we should consider arranging some sort of
17 ongoing interaction with ARS and this committee that perhaps
18 in the future we could delve into one or two projects in a
19 little more detail or different strategies to inform this
20 group and obviously potentially be very supportive of what
21 you are trying to do in your research.

1 So thank you very much.

2 MR. BREEZE: Thank you.

3 MR. BILLY: And thank Floyd as well.

4 MS. DEWAAL: We want a field trip. We want a
5 field trip.

6 (Laughter.)

7 MR. BILLY: The next presentation is going to be
8 on additional species. It's a subject that the committee
9 has already addressed. There is some new information and we
10 want to share. I'm going to try to keep this very short.
11 It is on the agenda for this evening and the information is
12 under tab 8.

13 Robert? Robert Post.

14 MR. POST: Thank you, Mr. Billy.

15 Now I have the task of shortening my half hour to
16 one-third. I will talk every third word or something.

17 MR. BILLY: Good.

18 MR. POST: Well, I was planning to update you on
19 the activities in this project area. As we had planned, I
20 would -- at the conclusion of the last advisory committee
21 meeting in November, and at the last meeting I presented a

1 draft of an October 1999 concept paper which recommended
2 that additional species, such as ratites, planobison,
3 buffalo and squab, should be added to those currently under
4 mandatory inspection in order to be consistent with the USDA
5 vision that -- of a public health risk-based seamless
6 federal and state inspection system.

7 In the October 1999 draft paper is Attachment 1 in
8 tab 7 where all the materials we are talking about are in
9 your notebooks.

10 If you recall at the last meeting the committee
11 listed several recommendations. We now find those in the
12 current issue paper. The recommendations included
13 requesting more detail in the paper to address the available
14 public health data and microbiological testing, to further
15 consider economic concerns, and to address the issues of
16 non-amenable products in interstate and international
17 commerce.

18 The committee also asked the agency to address and
19 resolve the specific issue of the use of nitrites in non-
20 amenable and exotic species. And as a final point the
21 committee endorsed the application of the criteria outlined

1 in the concept paper for determining which species of
2 animals and their products that are intended for human
3 consumption should be subject to mandatory inspection.

4 So what you have -- what you have presented to you
5 now is a work in progress with various parts being expanded
6 and refined. The intent, as was concluded at the last
7 meeting, is to have the draft concept paper completed in
8 November 2000 for presentation at the next advisory
9 committee meeting.

10 There were a variety of activities that have
11 occurred on this project since the last meeting, and I
12 thought I would cover those.

13 A working group on exotic species amenability was
14 formed subsequent to the last committee meeting. That
15 includes representatives from various program areas in the
16 agency, as well as representatives from the FDA.

17 The working group participants are charged with
18 collecting information based on their program area expertise
19 and forming draft text for completing the October 1999 draft
20 concept paper.

21 The concept paper discussed the process and

1 relevant legal authorities to expand the list of species
2 under mandatory inspection in sufficient detail, so I won't
3 go into that here. Rather, I will note that in addition to
4 monitoring the developments on the interstate shipment bill,
5 which was covered earlier today, we have monitored
6 legislation introduced in Congress on amending the FMIA and
7 PPIA to include additional species under mandatory
8 inspection. And there are three bills in the House on
9 rabbits, pigeons and ratites, and one companion bill in the
10 Senate on ratites.

11 All four pieces of legislation are pending in
12 their respective committees on agriculture, and we will
13 continue to track any progress on these bills and their
14 impact, if any, on this project.

15 With regard to public health implications and
16 microbiological testing, there is no question that non-
17 amenable and exotic species can be a vector for agents of
18 public health concern. Our goal has to been to gather data
19 on microbiological, physical and chemical hazards reported
20 to be associated with non-amenable and exotic species.

21 And an in depth review of the literature has been

1 conducted and copies of the literature reports were provided
2 to you as well as a bibliography that is Attachment 3 in
3 your packet.

4 These public health reports deal with a variety of
5 non-amenable species and animal diseases, some of which are
6 transmissible to humans, some of which are mainly flock and
7 herd concerns, and others that reflect toxicological
8 concerns.

9 The table, which is Attachment 2 in your packet,
10 entitled Table of Diseases Known to Exotic Species, lists
11 the literature cites and the causative agents, transmission
12 vehicles, and recommended prevention reported in the
13 literature. And I might note that the title of the table
14 really should be Table of Hazards Known to Exotic Species
15 because not everything reported is a disease.

16 From the literature, I could preliminarily say
17 that it appears that with few exception non-amenable species
18 are carriers of the same types of zoonotic diseases that are
19 found in amenable species.

20 With regard to transmissible microorganisms that
21 pose concerns at the slaughter house, the data show that

1 salmonella, E. coli, campylobacter and listeria are found
2 in many exotic and non-amenable species. Also, the
3 literature reports indicate that cherkina has been found in
4 several exotic species.

5 The literature reports appear to show that non-
6 amenable and exotic species pose essentially the same
7 hazards as amenable species with regard to microorganisms of
8 public health concern. But the literature reports provide
9 one perspective on a potential public health hazards with
10 regard to exotic species. They report incidences of
11 diseases in non-amenable species. However, they do not
12 reflect in all cases the prevalence or level of
13 microorganisms of public health concern.

14 Therefore, we are currently attempting to compile
15 data on the prevalence of microorganisms of public health
16 concern in exotic species, and so far we have found
17 prevalence data from only three published reports:
18 undressed ostrich carcasses, fresh and processed rabbit
19 carcasses, and ratites. Two of the three reports are from
20 foreign sources and that may not reflect the domestic
21 situation.

1 And this is an important point. There are many
2 published baseline reports of microorganisms and amenable
3 species, but very few seem to exist for non-amenable
4 species, and therefore we continue to request that members
5 of the advisory committee, perhaps those in state inspection
6 programs, help us obtain this data.

7 We are also attempting to compile data on the mean
8 level of microorganisms of public health concern and exotic
9 species, and so far we found data from eight published
10 studies from foreign sources, on reindeer, ostrich, rabbit
11 and deer. Again, we could benefit from data that some
12 members of the advisory committee may be able to obtain.
13 Without these types of data an assessment of the
14 microbiological risks associated with exotic species and
15 their products cannot be effectively accomplished.

16 With regard to economics and costs and benefits,
17 the draft concept paper described the need to examine the
18 costs and benefits of adding to the list of species under
19 mandatory inspection and the ramifications on state and
20 federal agencies, the industry and consumers.

21 In Attachment 4 of the issue paper in tab 7, we

1 included tables on the types and numbers of non-amenable
2 species slaughtered in federal establishments under
3 voluntary inspection in 1998, and a comparison with the
4 types and number of non-amenable species slaughtered under
5 state inspection in a 12-month period in 1998 to 1999.

6 I will add that with the help of Dr. LaFontaine we
7 also presented tables of the types and number of non-
8 amenable species under mandatory state inspection and
9 voluntary state inspection in 1998.

10 And these production data are cited as being
11 useful in determining exposure to potential pathogens or
12 agents of zoonotic disease which may be associated with
13 particular species. They are also useful in developing the
14 economic assessment of extending the coverage of USDA
15 mandatory inspection to additional species.

16 Numbers and types of exotic and non-amenable
17 species slaughtered under voluntary federal inspection and
18 in state inspection programs are not enough to deal with the
19 estimates of the costs of mandatory inspection for
20 additional species.

21 Therefore, we have performed a survey that is now

1 being completed of non-amenable species slaughter inspection
2 in federal plants, in other words, those under voluntary
3 inspection, and of non-amenable species slaughter inspection
4 in states in the cooperative state inspection program.

5 The data requested were for two fiscal years, 1998
6 and 1999, and the data includes the number and type of each
7 species slaughtered and inspected, the hourly rate of cost
8 of a federal inspection, and the total cost of inspection.

9 When the survey is completed later this month, the
10 data will show the estimated annual total cost of slaughter
11 inspection of non-amenable species in federal plants and the
12 estimated total cost of inspections of non-amenable species
13 in state plants.

14 And we have noted in the issue paper that we are
15 continuing to gather and develop other types of data that
16 are needed on the costs of mandatory inspection for
17 additional species, and I think we have listed them in the
18 issue paper so I won't repeat them here.

19 With regard to nitrite use in non-amenable and
20 exotic species, a specific request of the advisory committee
21 last number was to address the issue of the use of nitrite

1 and nitrate in non-amenable and exotic species, and a rather
2 tall order of resolving the issue.

3 We have had many significant discussions on this
4 issue with FDA representatives, and if you recall at the
5 last advisory committee meeting, we discussed the legal
6 authorities and implementing regulations regarding the safe
7 use of nitrites and nitrates in meat and poultry. I'll try
8 to recap the discussion as well as give you the latest views
9 on this issue.

10 The Federal Food, Drug and Cosmetic Act, under
11 which FDA operates, gives FDA authority over food and food
12 ingredients. The food additives amendments of 1958 to the
13 FFDCA require FDA approval of food additives prior to their
14 use in food. Under the food additives amendments of 1958,
15 FDA is required to reach an affirmative finding of safety
16 under intended conditions of use for any substance to be
17 used in food, and there are a few exceptions to this
18 requirement as well as a restriction on FDA's ability to
19 approve substances.

20 The exceptions are: approval is not required for
21 substances whose use is generally recognized as safe by

1 qualified experts; approval is not required for uses of
2 substances which had been approved prior to October 1958 by
3 FDA under the FFDCA or by USDA under the Federal Meat
4 Inspection Act or the Poultry Products Inspection Act, and
5 this is known as a prior sanction. Additional approval is
6 not required for pesticides approved by EPA and obviously
7 that's not relevant here.

8 In terms of a restriction, FDA cannot approve any
9 use of a substance if that substance has been shown to
10 induce cancer when ingested or by other appropriate means.

11 USDA approved the use of nitrites in meat and
12 poultry prior to October 1958 under the FMIA and the PPIA.
13 However, USDA did not have the authority under the FMAA or
14 PPIA to approve uses in species that are not -- that were
15 not subject to those statutes; in other words, non-amenable
16 and exotic species. Thus, the prior sanctions do not apply
17 to species that were no subject to those statutes prior to
18 October 1958.

19 And FDA has approved a few additional uses in
20 certain fish products but no new approvals have been issued
21 since 1970.

1 Over the last 30 years safety concerns have been
2 raised concerning the use of nitrites. At one time FDA had
3 proposed to review uses of all nonessential uses of nitrite
4 salts but later withdrew the proposal.

5 The National Academy of Sciences was commissioned
6 to evaluate the safety issues, and while these concerns were
7 initially raised regarding the reaction of residual nitrite
8 to form nitrocomenes, a class of chemical that is generally
9 capable of inducing cancer, studies in the 1970s and 1980s
10 raised concerns that nitrite salts themselves are capable of
11 inducing cancer.

12 Because of these concerns raised by animal feeding
13 studies, the government commissioned new studies under the
14 National Toxicology Program, which is part of the National
15 Institutes of Health, to address such issues. In the
16 meantime, FDA has taken the position that current evidence
17 is not sufficient to prove that nitrites provide an
18 unreasonable risk but that uncertainties remain which
19 prevent the agency from reaching the affirmative finding of
20 safety needed for new approval.

21 The results of the National Toxicology Program

1 studies should have a major impact on what decisions will be
2 made in the future. Just last week we learned that the
3 National Toxicology Program has planned a public meeting to
4 review their draft technical report on the toxicology and
5 carcinogenic studies of sodium nitrite in rats and mice,
6 and this meeting was announced in the Federal Register on
7 October -- on April 19th, and will take place on May 18th t
8 Research Triangle Park in North Carolina. And I understand
9 that copies of this Federal Register notice have been made
10 available.

11 The National Toxicology Program report and other
12 related information can also be found on the National
13 Toxicology Program/NIH web site, and that's provided in the
14 Federal Register notice.

15 According to FDA representatives, the National
16 Toxicology Program review of nitrite will influence any
17 options for approving new uses of nitrites, so it's
18 premature to consider options that FDA discussed with us
19 previous to this NTP report.

20 We have to consider that the resolution of the
21 issue of nitrite use in non-amenable species is unlikely in

1 the foreseeable future while the results of the NTP studies
2 are considered. We can certainly revisit the options when
3 FDA has reassessed their position in light of this new
4 information.

5 In closing, I'd like to emphasize that this is a
6 work in progress. We continue to gather economic
7 information and hazard data that I described.

8 I would also like to note the questions we raised
9 in the issue paper on current thinking, so that we can
10 address them later on today, this evening. And
11 specifically, we are seeking input on whether the committee
12 believes the concept paper and the data needs described
13 sufficiently address the data that are necessary to refine
14 estimates of risks and benefits, and to support legislative
15 and/or rulemaking processes. If not, we are asking what
16 other the data points are needed, and do members of the
17 committee have data that addressed the data needs.

18 As I mentioned earlier, one area of data needs
19 relates to baseline micro data on exotic species.

20 Another question is whether the committee wishes
21 to raise substantive new issues relevant to the extension of

1 mandatory inspection to exotic species.

2 And with that, I will conclude my remarks. Thank
3 you.

4 MR. BILLY: Rosemary?

5 MS. MUCKLOW: Robert, you've given us a lot of
6 information. Thank you.

7 Have you received or do you contemplate having any
8 data on what consumers' expectations are?

9 You know, more and more we are seeing the non-
10 amenable species product sitting alongside those that are
11 federally inspected in the retail counters in stores and
12 certainly on restaurant menus. And it would seem to me that
13 consumers have every reason to expect that these things that
14 they eat in the center of the plate products are inspected
15 just as meat and poultry is.

16 Do you have any kind of information as to consumer
17 perceptions or expectation?

18 MR. POST: At this point I'm not aware of any data
19 that exists. I know we have heard similar concerns, but
20 that's an interesting area and certainly one that we will
21 continue to explore in terms of available literature or

1 reports. And certainly if there are any other individuals
2 here who have that kind of data, we would be interested in
3 it.

4 MS. MUCKLOW: Some of the people that produce
5 these kinds of products may indeed have that kind of
6 information. And I know that there are a variety of
7 organizations, the ostrich and others, and I think under
8 some state programs these products were inspected, just not
9 inspected under the federal program.

10 So, you know, I think all of this builds towards
11 the equity end to support that these products should be
12 treated in a manner similar to meat and poultry because
13 consumers really think that's what is happening anyway. I'd
14 be surprised to find out that it wasn't.

15 MR. BILLY: Dan?

16 MR. LAFONTAINE: As the chairman of the
17 subcommittee that will deal with this issue tonight and
18 tomorrow, looking back to the last meeting I don't want to
19 preempt, but the flow of -- this is a reasonable step
20 forward was a general consensus. What we got bogged down in
21 was the nitrite issue because it's a Catch-22, especially

1 for the red meat people, and this is kind of a day late and
2 a dollar short, but is there any possibility -- is there a
3 person in FDA that could possibly join us tomorrow that can
4 help us deal with this issue of where it's headed? Or is
5 that too tall a task to ask at the eleventh hour?

6 MR. BILLY: My impression from what Bob said was
7 that a lot is going to turn on this meeting scheduled for
8 the 18th. And what we might want to do is make sure that
9 we're -- we monitor that meeting and the outcome of that
10 because it will influence FDA's attitude about change in the
11 status of these species and an awful lot of other food
12 products where nitrites arguably could play a useful role.

13 So I don't know if you agree with that or not or.

14 MR. LAFONTAINE: I do agree with that. I think
15 they have said that the potential impact of the results of
16 the NPT report show will have an impact on any decisions at
17 this point with regard to new approvals.

18 MR. BILLY: I am also aware that the -- I think
19 the American Meat Institute and perhaps other industry
20 organizations have assembled a great deal of information
21 that will be considered as part of that process on the 18th.

1 I don't know the details, but that's my understanding. So
2 there is input that, as I understand it, that is being
3 provided about the use of these compounds obviously, and
4 their importance. So I don't know anymore than that.

5 If we had someone from FDA come, I think what you
6 are going to hear is a repeat of what Bob said about, you
7 know, they are going to wait and see what this advisory
8 committee recommends. I don't know if that satisfies you or
9 not.

10 MR. LAFONTAINE: Like I said, I realize it's a
11 tall order at the eleventh hour, and like you said, this
12 meeting on Thursday, I guess, so timing is not very good.

13 MR. BILLY: Yeah. Katie?

14 MS. HANIGAN: I just have one quick comment, and
15 Bob, I think you did an excellent job of getting together
16 the information. I know you were part of our group last
17 time as a representative from the agency.

18 I just thought it was odd that this morning Kathy
19 talked to us about a precautionary policy and we talked
20 about the benefits and et cetera, that they could weigh on
21 the side of politics, if you will, on that precautionary,

1 and it sure seems a shame that that's what it appears the
2 FDA has done with this nitrite policy here, and I just
3 thought that was an interesting thing that you mentioned
4 this morning.

5 MR. BILLY: Caroline?

6 MS. DEWAAL: Did the agency get any new money or
7 request any new money in its budget on the amenable/non-
8 amenable species issue? In other words, to increase your
9 inspection and expand it to these species?

10 MR. BILLY: I'm not aware of getting any money.

11 MR. DEWAAL: Did you request it?

12 MR. BILLY: I think perhaps at an early stage in
13 the formulation of the agency's budget there were funds
14 proposed in that area, but it fell out fairly early on in
15 competition with other needs. So I don't remember. I'd
16 have to go back and look at the records to find out
17 specifically, but it was acknowledged as a need but it
18 didn't survive very long in the budget process.

19 MS. DEWAAL: Okay, and I just -- I'm glad to hear
20 that because I think we do need to balance this against
21 other food safety issues, particularly when it comes to the

1 budget on the FDA side where we have eggs, seafood and
2 fruits and vegetables and other things which are
3 contributing significantly to foodborne illnesses, yet have
4 a very minimal regulatory program. So I would hope that
5 this issue doesn't take precedence over things that are
6 causing actual harm.

7 MR. BILLY: Okay. Any other comments?

8 MR. POST: All right, thank you.

9 MR. BILLY: Thanks a lot. And you will be
10 available tonight --

11 MR. POST: Yes.

12 MR. BILLY: -- to work with the subcommittee,
13 right.

14 All right, here is my plan. It's a quarter after
15 three. I think we need a break about 15 minutes. I held
16 you a little extra. And then we're going to try to get
17 through the two issues that remain, E. coli and listeria in
18 half hour to 40 minutes each. I'm going to allow our
19 lapsing a little into the public comment period in part
20 because at this point in time we only have one person that's
21 registered to speak, and we've provided 45 minutes as you

1 can see. So we will monitor that, but I think it's
2 important that we have an adequate time for discussion of
3 those two important issue areas, and we will manage time
4 accordingly.

5 So let's take a break for 15 minutes.

6 (Whereupon, a recess was taken.)

7 MR. BILLY: Alright, we're going to get started,
8 and we've got two very important issues remaining on the
9 regular agenda, plus the public comment period.

10 The next issue is the recent developments in terms
11 of E. coli 0157:H7, and this discussion will be led by Phil
12 Derfler, the deputy administrator for policy, program
13 development and evaluation within the Food Safety Inspection
14 Service.

15 Phil?

16 MR. DERFLER: Thank you. Thank you, Mr. Billy.

17 MR. BILLY: Move the mike real close so people
18 will hear you.

19 MR. DERFLER: Okay. With me is Patricia Stolfa,
20 who is an assistant deputy administrator within the Office
21 of Policy and Program Development and Evaluation.

1 I'm going to do two things pretty much. I'm going
2 to do a little bit of a summary about how we got to be where
3 we are today, which maybe everybody is familiar with, but
4 I'll run back over the history. And then I will briefly
5 summarize the action plan that the agency foresees with
6 respect to E. coli 0157:H7 which is set forth in the paper
7 that you all should have received.

8 FSIS has approached E. coli 0157:H7 like its
9 approach -- oh, it's in tab 8 in your books -- like its
10 approach for listeria that you are going to hear about next,
11 has really been a process. The process started in 1994,
12 when FSIS determined that raw ground beef products are
13 adulterated if they contain -- they are found to contain E.
14 coli 0157:H7.

15 But the process really started to gain momentum in
16 1999. In January of 1999, FSIS clarified its policy and
17 made clear that any non-intact beef product would be
18 considered to be adulterated if found to contain E. coli
19 0157:H7.

20 After clarifying its policy, however, the agency
21 put most aspects of it in an abeyance while certain other

1 matters proceeded, and the developments have come fairly
2 quickly on its heel.

3 In March of 1993, we held a public meeting on E.
4 coli 0157:H7 and at that meeting a coalition of industry
5 groups said that they would conduct a study on the
6 prevalence of E. coli 0157:H7 on hides of cattle coming into
7 slaughter plants and then at various points in the slaughter
8 process.

9 MR. BILLY: Phil, I think you said '93.

10 MR. DERFLER: I did?

11 MR. BILLY: You meant '99.

12 MR. DERFLER: '99. Whenever.

13 (Laughter.)

14 MR. DERFLER: I'd be a lot younger if it was '93.

15 (Laughter.)

16 MR. DERFLER: I'm sorry.

17 MR. BILLY: All right.

18 MR. DERFLER: '99. ARS, as you heard before, has
19 also recently conducted some similar studies.

20 The agency's risk assessment has proceeded apace
21 and it's nearing completion now. In addition, the agency

1 has begun to use a new, much more sensitive method for
2 detecting the pathogen, and as a result, since January of
3 2000 -- 2000, the agency has had 11 positives for E. coli
4 0157:H7 in its surveillance system. That's 11 out of the 63
5 positives that there have been since the agency started
6 looking for the pathogen in 1994.

7 FSIS has reviewed -- rather, FSIS reviewed all of
8 these developments and reported on them in a white paper
9 that I delivered to this committee last November.

10 In February, we held a second public meeting and
11 at that meeting some very significant information was
12 presented. Data presented showed that the prevalence of E.
13 coli 0157:H7 in livestock and on carcasses moving through
14 the slaughter plant is higher than previously thought,
15 although the prevalence appears to be highly seasonal.

16 For example, monthly prevalence in fecal samples
17 showed a significant variation from 4.8 percent to 36.8
18 percent, with the highest levels in the spring and late
19 summer. Evidence was presented at the meeting that the
20 interventions in the slaughter process are effective in
21 reducing the presence of the organism, although not

1 necessarily capable of totally eliminating it. That was
2 alluded to in the presentation you heard before from ARS.

3 Data on illnesses associated with E. coli 0157:H7
4 indicate that the overall burden has not been reduced. CDC
5 estimates that ground beef accounts for 55 percent of the E.
6 coli 0157:H7 outbreaks, and FSIS has estimated that 18
7 percent of illnesses caused by E. coli 0157:H7 are
8 associated with ground beef.

9 Data were presented by scientists from Kansas
10 State University at the public meeting, and they claim that
11 this data showed that cooking non-intact pin beef products
12 to a surface temperature of 145 degrees eliminated the risk
13 from E. coli 0157:H7. And at the public meeting consumers
14 made very clear that they remain extremely concerned about
15 this pathogen.

16 FSIS has carefully considered the information
17 presented at its public meetings, as well as the comments
18 that it received on its January 1999 notice. And based on
19 this consideration, the agency has developed its current
20 thinking which is set out in the paper that you received at
21 tab 8, and I'd like to just review that with you now.

1 First of all, the agency considers to believe or
2 continues to hold that raw ground beef or other non-intact
3 products will be considered to be adulterated if found to
4 contain E. coli 0157:H7. FSIS is open to excluding certain
5 non-intact products from this policy if scientific evidence
6 is presented that cooking using normal practices results in
7 a product that does not present a food safety hazard. We
8 intend to consult with the National Advisory Committee on
9 microbiological criteria for foods at their August meeting
10 about the type of data that would be necessary to make such
11 a showing. But at this time we are not prepared to exclude
12 the pin beef from this policy based on the Kansas State
13 University data.

14 We note that the conference on food protection in
15 April considered a request based on the Kansas State
16 University data to revise the food code to allow pin steaks
17 to be cooked like intact steaks. And the Council on Food
18 Protection delegates rejected this suggestion.

19 Second, FSIS intends to publish a Federal Register
20 notice announcing that E. coli 0157:H7 may be a hazard
21 reasonably likely to occur in beef production. The notice

1 announcing this determination would be similar to the one
2 that the agency published last year on listeria
3 monocytogenes and would lay out the basis for the agency's
4 view.

5 Third, in response to the notice, we would expect
6 that all establishments engaged in beef production and
7 processing would reassess their HACCP -- their hazard
8 analysis in their HACCP plans. They would be expected to
9 validate that any changes that they make to their HACCP
10 plans as a result of the reassessment will work to improve
11 the safety of their product.

12 Fourth, FSIS intends to redesign its testing
13 program for E. coli 0157:H7 so that it will become a HACCP
14 verification activity. Thus, instead of focusing -- in
15 addition, instead of focusing on grinding operations, the
16 agency would test product that cleared final pre-shipment
17 review from plants at any stage of the beef production
18 chain.

19 Fifth, FSIS intends to revise its directive to
20 reflect the revised testing program. The agency is
21 considering providing for reduced sampling at plants that

1 have controls for 0157 in their HACCP plans that provide
2 access to test results and corrective actions if they find
3 the problem to inspection personnel and whose records
4 evidence that the HACCP system is working to prevent
5 adulterated product from entering interstate commerce --
6 from entering commerce.

7 Sixth, FSIS also intends to develop guidance
8 materials on controlling or reducing E. coli 0157:H7 in the
9 slaughter plant, to update its guidance to grinders, and to
10 develop materials for producers. We hope to be able to do
11 all this over the next four months.

12 And finally, there is the question that we would
13 appreciate the comments of the advisory committee on, which
14 is whether the committee's views on the agency's current
15 thinking that I just laid out on measure to control E. coli
16 0157:H7 in a HACCP environment, and what additional measures
17 should FSIS take to address E. coli 0157:H7.

18 Thank you.

19 MR. BILLY: Lee?

20 MR. JAN: I just want to ask one question or a
21 clarification.

1 Did I understand you to say in your comments that
2 the cooking non-intact beef to 145 external temperature made
3 it safe or?

4 MR. DERFLER: That was the claim that --

5 MR. JAN: That was a claim.

6 MR. DERFLER: -- the Kansas State people
7 presented, yes.

8 MR. JAN: So it's a claim. Did they have any
9 scientific --

10 MR. DERFLER: They presented scientific data, and
11 we are interested in hearing the comments of the
12 microbiological advisory committee on how to approach this
13 issue. We are not looking to close the issue now. All we
14 are saying is based on what we have and what we know we are
15 not prepared to make an exception for this product.

16 MR. JAN: So you need more of that evidence from
17 what Kansas State did?

18 MR. DERFLER: Well, unless the advisory committee
19 tells us -- describes a set of evidence that actually
20 describes what Kansas State has provided, but you know
21 without trying to prejudge the issue, yeah.

1 MR. JAN: Okay.

2 MR. BILLY: Gary?

3 MR. WEBER: We have conducted a number of research
4 projects in this area to determine the scope of the risk
5 here because when this was first brought to our attention we
6 were concerned about it as well and wanted to know what we
7 were dealing with.

8 The first thing we did was try to look at some of
9 the epidemiologic data relative to foodborne illness and
10 outbreaks, and in that context couldn't find evidence that
11 these types of products were linked to illness, and that was
12 one piece of evidence.

13 We then went on to do a retail survey of products
14 and tested for salmonella, 0157:H7, campylobacter, total
15 plate count and all sorts of other things, and that was back
16 last summer. We didn't find any 0157:H7 on any of these
17 products, both neither external nor internal. These are
18 needle tenderized, blade tenderized, et cetera.

19 And some of these products weren't the most -- I
20 mean, some of them had fairly high spoilage organism plate
21 counts, so it's not as if they were sterile by any stretch.

1 So we didn't find the prevalence there.

2 Then the next issue, of course, was this study on
3 cooking that shows that with steaks of fairly uniform
4 thickness that the cooking, coupled with the time it takes
5 to cook that steak, was very effective in reducing it.

6 So in looking at this from the scientific
7 perspective, we have, and it comes back to this proving a
8 negative issue. You have got three sets of data apparently
9 which indicate that there isn't a major problem here: one
10 epidemiologic case studies of health, outbreaks, et cetera;
11 one you've got retail surveys with the prevalence of
12 organism; and three, you've got the cooking data, all of
13 which indicates that we shouldn't have a problem.

14 Now, if you just looked at the cooking data and
15 the prevalence data, you'd say, well, I'd be surprised if I
16 saw in the public health side a problem given this reality.

17 We are going to continue on in this project. We
18 are working with some of the manufacturers of equipment
19 because there are issues that I think ahead of this curve.
20 One needs to consider cross-contamination, needles going
21 into another cut or whatever and other problems that may

1 occur there.

2 But as we see it, it comes back to this issue that
3 Dr. Denton mention of proving a negative. We see a lot of
4 negatives here that we're picking up. And so I can
5 certainly make that information available and certainly the
6 micro committee, if they can provide us some advice on some
7 experimental design to sort of further verify what our
8 initial observations are, that would be great. But at this
9 time, again, we don't see the evidence that there is a
10 problem at this point. Now, we are taking it seriously and
11 looking further.

12 MR. BILLY: I would suggest that the information
13 you just referred to be made available to the micro
14 committee at its August meeting.

15 MR. WEBER: Okay.

16 MR. BILLY: Because this item is specifically on
17 the agenda.

18 MR. WEBER: Okay.

19 MR. BILLY: And let that be part of what they
20 consider in reacting to the questions that we are posing to
21 them.

1 MR. WEBER: We also have some data I just wanted
2 to mention briefly on some combo testing, but I don't want
3 to dominate the discussion. Maybe if you want to talk more
4 about intact, I can come back to these studies that we just
5 completed and just share some of the overviews of what we
6 are finding there.

7 MR. BILLY: Okay. Nancy?

8 MS. DONLEY: I have a couple questions and it's
9 basically on the action plan.

10 MR. DERFLER: Mm-hmm.

11 MS. DONLEY: Is there -- you had said that FSIS
12 would expect all establishments.

13 Is there going to be anything stronger than that
14 that will -- or is that the exact terminology? Are you
15 going to require plants to --

16 MR. DERFLER: We didn't require for listeria. We
17 don't expect to require it here. What we want to do is put
18 out our view. We want people to start acting under the
19 regulations, the HACCP regulations, as quickly as possible
20 to address this problem.

21 MS. DONLEY: But under -- because under this new

1 umbrella, if you will, of it being recognized as a hazard
2 reasonably likely to occur, wouldn't you, FSIS, expect to
3 see it addressed in a HACCP plan in some way, shape or form,
4 and identified as a hazard?

5 MR. DERFLER: WE would certainly hope so, yeah.
6 And I think -- you know, any plants that didn't have that,
7 as I said as part of our testing plan, would be subject --
8 we would target our testing in that plant. And if it did
9 show up, then I think then it would be difficult for the
10 plant to say that it was not a hazard reasonably likely to
11 occur.

12 MS. DONLEY: But could any inspector now in a beef
13 plant take a look at the plant's HACCP plan and say you have
14 not identified 0157 has a hazard reasonably likely to occur,
15 and you haven't identified any steps along the process --
16 well, let's -- just the first part of it.

17 MR. DERFLER: Yeah.

18 MS. DONLEY: If they haven't identified it as
19 hazard reasonably likely to occur, what would the agency's
20 next step be?

21 MR. DERFLER: Well, we would expect them to at

1 least have discussed it in their hazard analysis and decided
2 why it wasn't a hazard reasonably likely to occur in their
3 plant. And then, as I said, as we develop our testing
4 program, our testing program is going to target the plants
5 in which it's not -- it has not been identified as a hazard
6 reasonably likely to occur.

7 MS. DONLEY: But to know how to identify those
8 plants you are going to have to look at HACCP plans, right?

9 MR. DERFLER: Absolutely.

10 MS. DONLEY: Okay, so you will be looking at all
11 plants?

12 MR. DERFLER: Yes.

13 MS. DONLEY: Beef plants' HACCP plans?

14 MR. DERFLER: We are going to --

15 MS. DONLEY: Okay. Fine.

16 MR. DERFLER: Yes.

17 MS. DONLEY: Okay.

18 MR. DERFLER: We are going to send out directives
19 to our inspectors to --

20 MS. DONLEY: Okay.

21 MR. DERFLER: -- look to see what steps, if any,

1 the plants took as part of their reassessment, yes.

2 MS. DONLEY: Okay.

3 MR. DERFLER: At least that's our plan.

4 MS. DONLEY: Okay. And then the second question I
5 had is in redesigning FSIS's -- using this as a HACCP
6 verification activity, are you planning to increase the
7 numbers of samples that you conduct now in your random
8 samples, or maybe or is it just a continuous random sampling
9 program, or are you going to actually be conducting in all
10 beef plants 0157 testing programs as a verification step?

11 MR. DERFLER: I mean, the number of tests that
12 we're actually able to do depends on our resources. I don't
13 think there is any plans to increase the number. What we
14 hope to do is be able to target them more effectively, so I
15 think the answer to your question is sort of no, but I think
16 we intend to use our resources more effectively.

17 MS. DONLEY: Okay. And then can I ask one more
18 follow-up question? That is, in these -- with the provided
19 for reduced sampling in plants that have -- included
20 controls, are -- is it -- is that product, so let's say it's
21 in a slaughter plant, and that product gets shipped to a

1 different processing plant, that exemption, if you will,
2 doesn't carry through to that processing plant necessarily,
3 does it?

4 MR. DERFLER: Well, it depends on what what's
5 going to be in the other plant.

6 MS. DONLEY: In a system plan?

7 MR. DERFLER: Yeah, HACCP plan

8 MS. DONLEY: Where I'm coming from is that -- if
9 my understanding of what the industry had put -- had
10 initially proposed was that anything that -- for instance,
11 if there was carcass testing being done, that that
12 exemption, if you would, carried all the way through retail,
13 so that's kind of where my question is coming from.

14 MR. DERFLER: It would depend on the circumstances
15 and the content of the plan, the steps that the other plants
16 had in place.

17 MS. DONLEY: Throughout each --

18 MR. DERFLER: Right.

19 MS. DONLEY: -- individual establishment --

20 MR. DERFLER: Right.

21 MS. DONLEY: -- is -- okay.

1 MR. DERFLER: You know, if the plant, you know,
2 used only product from plants that certified that their
3 product was negative or they had been tested for 0157 and
4 not been found, that would be one thing.

5 If they were mixing product from various --

6 MS. DONLEY: Right.

7 MR. DERFLER: But also you started that question
8 be reduced simply. I'm not prepared to accept that
9 characterization.

10 MS. DONLEY: Oh, except it's right there in point
11 four.

12 MR. DERFLER: What?

13 MS. DONLEY: It's right there in point four. I'm
14 sorry. I'm just using your words.

15 MS. STOLFA: It's reduced, it's not an exemption.

16 MS. DONLEY: Correct.

17 MR. DERFLER: Oh, reduced sampling in the -- okay,
18 I'm sorry. I thought you meant for the agency.

19 MR. BILLY: Finished, Nancy?

20 MS. DONLEY: I am. Thank you.

21 MR. BILLY: Caroline?

1 MS. DEWAAL: Katie wanted to go next.

2 MR. BILLY: Okay, Katie?

3 MS. HANIGAN: My question follows Nancy's, and
4 that's exactly what I was going to ask.

5 Currently if I am making ground beef, I can get a
6 letter from my supplier that is slaughtering these animals
7 talking about the intervention system at their facility as
8 well as their testing program.

9 So once this Federal Register notice comes out, I
10 am getting fictitiously this trim in. I have no CCP in my
11 facility that's going to control this because it arrives
12 with the trim that I got from the slaughter.

13 Are you saying that initial letter and testing
14 program at the slaughter plant is not going to be
15 acceptable? What -- because I'm looking at --

16 MR. DERFLER: You've confused me.

17 MS. HANIGAN: Okay, I'm looking at the HACCP model
18 and the CCP and the Federal Register notice saying that
19 0157:H7 may be a hazard --

20 MR. DERFLER: Right.

21 MS. HANIGAN: -- reasonably like to occur. But if

1 it arrives at my facility in the trim, what CCP do you see
2 me putting in to control this?

3 MR. DERFLER: You might want to have some controls
4 at receiving.

5 MS. HANIGAN: Like what?

6 MS. STOLFA: You might want to have refrigeration.

7 MS. HANIGAN: Sorry?

8 The refrigeration is not going to control it. It
9 would already be there. And at receiving when it comes in,
10 the --

11 MS. STOLFA: The risk assessment.

12 MS. HANIGAN: -- CCP should be set up so that I
13 look and I monitor and I say go/no go.

14 MS. STOLFA: The risk assessment tells us that the
15 organism is there in the material you are receiving at
16 extremely low levels, but it is much more prevalent than
17 what we had believed previously. And so in addition to
18 whatever kind of receiving controls you might want to have,
19 refrigeration seems to us to be an important thing to do so
20 that the broad prevalence which comes to us from the risk
21 assessment, you know, we don't have the stuff growing out.

1 MS. HANIGAN: And I don't want to get us way into
2 a deep conversation, but the agency has already issued
3 directive to the industry clearly saying using receiving
4 temperatures as a sole CCP was not acceptable. So now we're
5 backing up here saying receiving temperatures.

6 MS. STOLFA: No, I don't know what directive that
7 is.

8 MS. HANIGAN: Clearly that came out of a number of
9 the district offices, and I hear Terry saying "That's
10 right."

11 MS. STOLFA: I think after we issue the Federal
12 Register notice and we provide the basis for your belief
13 that the organism may be a hazard reasonably likely to occur
14 in all stages of beef production, and you consider the basis
15 for that, then people may arrive at different conclusions as
16 to what their HACCP plans ought to look like.

17 MS. HANIGAN: See, and my concern is for everybody
18 in the room we get talking again about product temperatures,
19 receiving temperatures, room temperatures and pretty soon
20 we're into these prerequisite programs that we've been
21 talking about, and those -- that is not going to control and

1 it's not going to eliminate E. coli 0157:H7 in a grinding
2 plant, temperature isn't.

3 MS. STOLFA: Well, we're into -- one of the things
4 that an accept CCP can do is to make sure that the organism
5 is reduced to the lowest possible level. As we say, we know
6 that -- you know, we believe from the risk assessment that
7 its prevalence is much greater than previously anticipated,
8 although that prevalence is at extremely low levels.

9 And so we are very interested in controls which
10 prevent those low levels from growing into levels that will
11 be of concern.

12 MS. HANIGAN: So then now we do know the
13 infectious dose and all that on the organism?

14 MS. STOLFA: No, we don't know that. We
15 anticipate that it's quite low.

16 MS. HANIGAN: Okay. So I still go back to the
17 Federal Register notice is going to come out may be a hazard
18 reasonably likely to occur, I am not slaughtering these
19 animals. I am bringing the trim in. Your suggestion,
20 refrigeration. But since we don't know the infectious dose
21 here, I'm not sure how that CCP is going to work, and I

1 think it's just white wash. Perfectly honest with you, I
2 think it's white wash to do that.

3 And that why when Nancy started in on the
4 questioning about the letter, the testing program of the
5 slaughter, I'm wondering where that is going to end up
6 because a number of people buying trim in require whoever
7 slaughtered those animals have a testing program going on on
8 those carcasses, and have it validated, and send us letters
9 with each lot.

10 Is that not going to be acceptable anymore?

11 MS. STOLFA: The testing program will be targeted
12 first to establishments that have not included in their
13 HACCP plans a CCP addressing 0157:H7.

14 MS. HANIGAN: And Pat, I clearly understand what
15 you are saying but I'm not sure if I'm being understood.

16 Even if I do a hazard analysis and say, okay, it's
17 reasonably likely to occur, I have no way of controlling it
18 in my facility if I am grinding.

19 MS. STOLFA: Well, I guess we probably wouldn't
20 necessarily agree with that view.

21 MS. HANIGAN: So you are recommending temperature?

1 MS. STOLFA: As a thing that can be done.

2 MR. BILLY: I think we need to move on, and this
3 could be discussed more this evening and later.

4 Caroline?

5 MS. DEWAAL: Thank you, Tom.

6 I'll note that this policy clarification has been
7 hanging around for about 18 months now, and it's good that
8 the agency is finally moving forward with it, so I want to
9 congratulate you on taking the step.

10 And the industry has been on notice for a long
11 time that the agency was contemplating this, so I think what
12 Katie is just talking about is one of the difficulties about
13 translating a HACCP as a process -- as a processing system
14 into the production of raw meat, and the definition, as I
15 recall it, controls is that they reduce or eliminate the
16 hazard. It doesn't always have to eliminate the hazard,
17 although in this case, Katie, I agree with you. We want to
18 eliminate this hazard as much as possible.

19 Just on one note with what Gary mentioned. We do
20 have outbreak data indicating that roast beef and some other
21 cuts of meat have been implicated in outbreaks, and that's

1 available at CSPI's web site in our report called "Outbreak
2 Alert," and that report is being updated now, so that the
3 most recent version will be out in August.

4 Phil, I have a question for you, and that is, the
5 industry did a really excellent job, I thought, at showing
6 the feasibility of carcass sampling for 0157:H7. They ran a
7 series of tests in their own plants, and demonstrated that
8 carcass testing for this terrible hazard is quite doable,
9 and they came in and shared the results with us at a meeting
10 several months ago.

11 CSPI asked, and a number of other consumer
12 organizations as well, that carcass sampling be mandated for
13 the industry. It's an additional protection. It's
14 something that's highly doable. And I want to know what
15 happened to that proposal because I don't see it here as one
16 of your recommendations.

17 MR. DERFLER: I think the answer is if you believe
18 in HACCP, you believe in the type of HACCP verification
19 testing that we're looking at. I mean, we're not saying
20 that industry shouldn't test carcass. Industry can put in
21 any control system that they want. That's the point of

1 HACCP.

2 But from our effort, our point of view, how we're
3 going to focus our resources, we're going to focus on
4 verification testing to ensure that our program is working
5 as well as it can.

6 MS. DEWAAL: But wouldn't it make sense -- I agree
7 that you should be focused on verification testing, and I
8 think I share Nancy's concern about the directive 10.01.1.
9 There seems to be a trade off where the industry, you know,
10 gets a -- you know, get out of jail free card because we're
11 not going to check your products anymore just for agreeing
12 to do testing.

13 Now, why isn't testing utilized both by the
14 industry and the government? Why don't we have two layers
15 of protection? Why are you just giving us one, either
16 industry or government?

17 MR. DERFLER: Well, let me -- this is an action
18 plan. It's a thought paper. We are happy to get any input
19 that we have.

20 I guess I should say though just from a personal
21 standpoint, and it doesn't necessarily reflect the views of

1 the agency, but at the public meeting that we had was Mr.
2 Gill from Canada spoke, who talked about, you know, the fact
3 that you really can't test your way into effectiveness of a
4 program like this; that you really need to have a HACCP
5 system in place and HACCP system working.

6 Naive as I am, and I will freely admit that, that
7 was significant.

8 MS. DEWAAL: I beg your pardon. I agree with
9 that. We're not talking about either/or here and we never
10 have been. And I know that people who went through the
11 numerous meetings we held on the original HACCP rule
12 understand that we're not saying micro testing instead of
13 HACCP. We're saying that both industry and government
14 should be using testing as a verification tool.

15 And Mr. Gill represented, or Dr. Gill represented
16 the old thinking, the old philosophy that it's an either/or
17 system. Maybe that's new to you that it's not an either/or
18 system. We can have both. But the government needs to be
19 giving us two layers of protection here. It's doable. The
20 industry is already doing it. We saw that in the listeria
21 presentations yesterday. And I want -- I need to understand

1 from the agency, and I'll be asking this question again when
2 we talk about listeria, why not? Why can't you give us two
3 layers of protection?

4 MR. BILLY: Dale? No?

5 Alice?

6 MS. JOHNSON: I'm going to go back and piggyback a
7 little bit on what Katie said. And Phil, you just made the
8 comment "if you believe in HACCP." I think you just said at
9 one of the very first parts of your presentation if a
10 company has their hazard analysis that they have the problem
11 under control, they don't consider it reasonably likely to
12 occur, they have their supporting documentation, they will
13 still be targeted is what you said; is that correct?

14 MR. DERFLER: I said that we would target our
15 testing at them, yes. That doesn't mean that they are going
16 to be tested, you know, every day. It does mean that, given
17 the limited resources that we have for testing, that would
18 be a higher priority than a plant that has a HACCP plan that
19 is giving us access to the records, and their records are
20 showing that their HACCP system is working. It would be a
21 waste of our effort to test in that situation.

1 MS. JOHNSON: But there won't be the credibility
2 given in the hazard analysis?

3 MR. DERFLER: No, we're not going to -- we're not
4 going to make them change their HACCP plan or hazard
5 analysis or add it as a CCP. But you know, to the extent
6 that we have an ability to do some testing, that's what we
7 will do.

8 MS. JOHNSON: But they will be tested if they
9 don't have the CCP?

10 MR. DERFLER: People may be tested if they do have
11 the CCP. It would just be in our --

12 MS. JOHNSON: But they will be targeted?

13 MR. DERFLER: Well, that's our plan right now,
14 yes.

15 MR. BILLY: Rosemary?

16 MS. MUCKLOW: Phil, there are a lot of questions
17 about this policy that are going to surface. The first one,
18 I'd like to go back to the discussion earlier about the
19 needle product, or as you call it, pin product.

20 There was extensive data submitted by
21 distinguished microbiologists who studied this product, and

1 yet you have indicated this is insufficient to allow you to
2 accept that data; that you want something more. We heard
3 around the table today that there may be some additional
4 information.

5 Do you have any information of illnesses that have
6 been attributed or H7 that has been found in this product?
7 Do you have that kind of data?

8 MR. DERFLER: Well, other than the information
9 that Caroline alluded to, I'm not aware of any.

10 MS. MUCKLOW: I don't know what Caroline's data
11 is. I haven't heard about that before.

12 MR. DERFLER: I know that CSPI has published a
13 list of outbreaks, and on that list of outbreaks there is
14 one that was a roast beef product, I'm sure of that.

15 MS. JOHNSON: Was it a needle product?

16 MR. DERFLER: I don't know. I just am --

17 MS. MUCKLOW: Okay.

18 MR. DERFLER: I'm not trying to argue one way or
19 the other.

20 MS. MUCKLOW: Well, you know, Carol likes
21 government. She's never much liked industry data, but she

1 does like government data. Like you, I have some respect
2 for your information and data. And to date some reputable
3 scientists have submitted data that showed that that product
4 will not have H7 if it -- even if it has been needled and
5 cooked properly. And I don't quite understand why that
6 particular product is lumped in here when the data goes the
7 other way. That's just one little comment on that.

8 And if you have data to show us otherwise, then I
9 would certainly ask you to make it available to us.

10 MR. DERFLER: Right. I don't know that I'm saying
11 that it's not sufficient. What I am saying is for the
12 reasons that we laid out in January 1999 notice we would
13 want to have as much confidence as possible about this
14 product. That's why we intend to go to the advisory
15 committee. It's not to say we need more, it's not there.
16 We would like a group of experts to look at it and to give
17 us guidance. We think that's the prudent way to proceed at
18 this time.

19 MS. MUCKLOW: Okay. So you're taking the non-
20 intact product to the micro advisory committee?

21 MR. DERFLER: Right. Yes.

1 MS. MUCKLOW: Okay. I think that that is a useful
2 place to take that request to because I think this is a
3 science issue, and while we have some scientists here, most
4 of us are political scientists, not real scientists, and you
5 will probably get a better scientific response from the
6 micro committee.

7 The second question I have is that somewhere in
8 here it says, and I think you said in your comments that the
9 risk assessment is being prepared.

10 Is it possible that we could be provided with a
11 draft copy because obviously you guys know more than we do
12 at this point?

13 I mean, we need to get all the cards on the table
14 on this one.

15 MR. DERFLER: Right. I would say we highlighted
16 features of the risk assessment in the public meeting that
17 we had in February. The risk assessment, I believe, is
18 going to be published in August, and so it will be available
19 quite soon.

20 MS. MUCKLOW: Is there a preliminary draft of it
21 that we could begin to work from because I -- you know, most

1 people who are scientists, and it's going to -- again, I'm
2 the wrong kind of scientist to understand this, but the real
3 scientist is going to want to look at what you have got.

4 MR. DERFLER: And it will be made publicly
5 available. My understanding is that they are still doing
6 final cleanup, final running through, and it's going to take
7 until August.

8 MS. MUCKLOW: And who is doing this?

9 MR. DERFLER: The Office of Public Health and
10 Science within FSIS.

11 MR. BILLY: It's an interagency team. CDS and --

12 MS. DEWAAL: Rosemary, it was -- they did present
13 it to the National Advisory Committee for micro within what,
14 the last six months?

15 MR. DERFLER: It was last fall.

16 MS. DEWAAL: Yeah. So they have looked at it
17 several times while it's being written.

18 MS. MUCKLOW: Is that correct, Mr. Billy, that it
19 was presented to the micro committee?

20 MR. BILLY: Yeah. The design of it and the
21 approach, and then the final report will be presented in

1 August.

2 MS. MUCKLOW: Okay. So the final report was not
3 presented to the micro committee last August?

4 MR. BILLY: Not yet. That's right.

5 MS. MUCKLOW: Rather the design and --

6 MR. BILLY: Yes.

7 MS. MUCKLOW: Okay, and that was probably publicly
8 available and scientists have that, I assume.

9 MR. DERFLER: I think on our web page, you know,
10 part of the risk assessment that was presented in February
11 is available in our risk assessment -- on our web page now.

12 MS. FOREMAN: Is it possible still to get copies
13 of that so we could have them available tonight for the
14 committee meeting?

15 MR. BILLY: The material that was presented at the
16 public meeting.

17 MR. DERFLER: Yeah.

18 MS. FOREMAN: I didn't bring that with me. If we
19 could have it for the subcommittee meeting.

20 MR. BILLY: Okay, we will see what we can do.

21 Yes?

1 MS. MUCKLOW: I think that would be useful.

2 As I --

3 MR. DERFLER: We'll try and get it.

4 MS. MUCKLOW: Okay. I listened carefully to Katie
5 and then to Alice, and again I'm trying to get a handle on
6 something that is occurring in a raw product that is cooked
7 before it is consumed.

8 And what you are doing is you're in effect saying
9 this is a hazard reasonably likely to occur and therefore we
10 want you to have a CCP. And a CCP then you have to design
11 something to either prevent, eliminate, or reduce to an
12 acceptable level.

13 And Pat has told us that it is the agency's
14 belief, based on what they have read in their risk
15 assessment, that it is out there in very, very low levels.

16 The question becomes do you believe or what is the
17 acceptable level for H7 on a beef carcass or in ground beef
18 because those are the two places that we're going to have to
19 deal with it? What is that acceptable level because we need
20 some help on that?

21 MR. DERFLER: Yeah, when it's detectable.

1 MS. MUCKLOW: So we can have it there but we can't
2 detect it? And as soon as we can detect it -- so we're back
3 to proving of a negative, and the tests today are better
4 than they were two years ago. I mean, refrigeration isn't
5 going to get rid of it. You know, Katie is absolutely
6 right. And refrigeration in this industry is pretty good.
7 The interventions in this industry are pretty good.

8 Do you have any information on the outbreak data
9 that you have where you have tracked that product back to a
10 company which slaughtered the meat that the ground beef was
11 made from and been able to show whether or not they had
12 interventions working? Have you been able to do that at the
13 tracing?

14 MR. DERFLER: I don't know. I mean, I just don't
15 know.

16 MS. MUCKLOW: Well, when you've got 11 -- I think
17 you said you had 11 --

18 MR. DERFLER: Yeah.

19 MS. MUCKLOW: -- this year out of a total of 64,
20 and those are all pretty recent. I mean, it's not an easy
21 task, and I'll grant you --

1 MR. DERFLER: Right.

2 MS. MUCKLOW: But if you indeed -- there is this
3 huge impact, shouldn't we be or shouldn't you be trying to
4 track those 11 to see what the source of the problem was?
5 Isn't that a place that we need to go and investigate and
6 see if interventions are or are not working back at the
7 source at the plants because that's where we are going to
8 have the best control?

9 There is no control --

10 MR. DERFLER: Right.

11 MS. MUCKLOW: -- in a grinding plant.
12 Refrigeration isn't going to do it.

13 MR. DERFLER: I mean, we're certainly looking for
14 control first, I mean, at the grinding plant, and I think
15 Pat said that before, that's certainly where we are -- we
16 are changing our testing. We are going to not only be
17 looking at the grinding plant anymore. We are going to be
18 looked at the slaughter plant and we hope that there will be
19 the interventions in the slaughter plant, and that the
20 slaughter plant become the key to this.

21 MS. MUCKLOW: Well, are you looking back for those

1 11 positives this year to see if you can track them back and
2 see how effective the interventions were or were not at the
3 source plant?

4 MR. DERFLER: I just -- I just don't have any
5 personal knowledge of that. I'm sorry.

6 MR. BILLY: We will review what was done. We
7 don't know the answer.

8 MS. MUCKLOW: I'm finished for the moment.

9 MR. BILLY: Lee?

10 MR. JAN: I just don't need to say much. I think
11 Katie and Rosemary covered it. Refrigeration is not an
12 acceptable control for an organism that there is no
13 tolerance for, so I think that -- that was my point.

14 MR. BILLY: Gary?

15 MR. WEBER: First of all, Caroline, I'll take a
16 look at that data because seriously we have looked and
17 talked to CDC and they were not -- didn't feel that there
18 was an issue here, but we will certainly look at that.

19 Back to the HACCP discussions where -- as a
20 preference to my comments -- we talked a lot about micro
21 testing. We've talked a lot about testing for pathogens,

1 and at that point in time I think everybody felt that E.coli
2 generic plate counts, what have you, as an indicator of
3 fecal contamination is a process indicator. It's something
4 that was routinely measurable and could be used to verify
5 and validate HACCP. We have been down this road, folks,
6 before where we tried to chase after these things.

7 Everyone sort of reluctantly went ahead and said
8 okay, let's try to do salmonella. It is a little bit more
9 repeatable in measuring.

10 But when we listened to the risk assessment, which
11 we have not been able to get a copy of the data, there is a
12 lot of things made absolutely no sense. It's very difficult
13 looking at other models to have one which when you look at
14 trying to verify the estimates, that you can't do it.

15 One being the prevalence in combos, which we have
16 been doing a lot of research on, to come back to this issue
17 of 89 percent having a level.

18 So with the help of actually Mark Mina and others
19 we received 10 combos that had been determined to be
20 positive from packing plants, and we took those combos
21 apart. We broke them into five layers. Each of those five

1 layers we took nine samples. That's 450 samples. Now
2 remember these are combos that were felt to be positive for
3 0157:H7.

4 We then took five samples of purge from those
5 thinking if we could find an indicator that might give us
6 some higher probability of finding it that was easy, that
7 gave us another 50 samples.

8 So we have 500 samples that we ran through the
9 most stringent testing we could. And again, I will get you
10 copies of this and give these to the micro committee. Out
11 of those 500 samples we found three positives. We found
12 three positive for 0157:H7 out of 500 samples. That's a
13 rate from the 500 of .6 percent.

14 Now, these are combos that were viewed positive,
15 so that's why testing of this is so difficult. And you
16 could test in another part of this, another layer and say it
17 isn't there, and then what would you do?

18 So we know that. That's why this testing for this
19 organism doesn't give you very much.

20 Now, if you take a look at -- we ended up with two
21 combos out of 10 that were positive. Now, again, this is 10

1 that should have been positive. We took the whole thing
2 apart, so that's a prevalence of 20 percent basically, 20
3 percent of those that people thought were positive showed up
4 here.

5 Well, then the question is what level did you
6 find? Well, the lowest level was -- by the most probable
7 number -- was .015 colony-forming units per gram. The
8 highest level they found was 4.6 colony-forming units per
9 gram.

10 So not only are we not finding it in positive
11 combos, but the levels we are finding and the sensitivity of
12 this technology is very sophisticated.

13 So the point is if you're going to make this
14 change or you are going to say this hazard reasonably likely
15 to occur even in combos where somebody said it was, and
16 these are good companies, good labs that have indicated
17 this, you can imagine what you are facing in trying to
18 generate this kind of program around these kind of numbers.

19 And I think you really have to go back, and we can
20 do more work. I think we need to invest and taking some of
21 these combos apart, finding it out, because I think what you

1 are going to find is you are chasing a tail, and it's a huge
2 investment. I don't know that you are going to get out of
3 it what you want.

4 I think we have made huge advances using other
5 technologies. But this idea, and we're going to give this
6 to the risk assessment people because nothing fits in those
7 numbers; not the .33 percent positive you're picking up with
8 the general testing, which I would argue is targeted. That
9 isn't coming up with 89 percent. We are running 20 percent
10 of already positive combos, so that doesn't match. We
11 actually running .6 percent of the 500 samples of these
12 combos.

13 So we will contribute this data to the process.
14 I've got a couple more things to review in it. But there is
15 a lot going on here and we're going to do more study on it.

16 I think you really need the micro committee to
17 look at this and really design a science-based approach to
18 getting this done or you're going to waste government
19 resources, you're going to -- that takes money away from
20 making a substantive, real contribution to public health.

21 We have been through these arguments for six

1 years, and now I see us coming back all the way around to
2 where we were in 1994 about what do you test for and, you
3 know, we want to do the right thing, but all the data we
4 have says you're just chasing a rabbit here and I don't
5 think it's going to get you where you want to go.

6 We need to do something. I'm not saying we don't.

7 But we need data like this that helps us understand the
8 challenge, and it hasn't changed. It's getting harder
9 actually because the companies are doing such a good job of
10 eliminating it.

11 MS. HANIGAN: Gary, I have two questions for you.

12 MR. WEBER: Yes.

13 MS. HANIGAN: Four hundred and fifty samples, each
14 one 25 grams?

15 MR. WEBER: Yes.

16 MS. HANIGAN: And what's the total weight in a
17 combo?

18 MR. WEBER: I don't know how big these were.

19 (Simultaneous conversation.)

20 MS. HANIGAN: So 450 samples taken out of a 2,000
21 pound combo?

1 MR. WEBER: Yeah, I think they -- I think they may
2 have taken a homogenate though, you know, blended it or
3 something. I can find out more exactly what the methodology
4 was. That's my understanding of it.

5 MR. BILLY: Nancy?

6 MS. DONLEY: What you just said that within the
7 stuff, within a combo you mix it all up. So I think what
8 you're showing is that the initial, the original
9 determinations that these were positive combos is indeed a
10 fact.

11 MR. WEBER: It isn't true. It was only two out of
12 the 10 that were positive.

13 MS. DONLEY: But you know what, we have all said,
14 and let me remind Rosemary of this too, and it's actually
15 what Dr. Denton also said this morning. Just because you
16 don't find it doesn't necessarily mean it's not there, and
17 I'm going to say the same thing in your testing regime here,
18 and it's the same thing for this needling program that we're
19 talking about too.

20 MR. WEBER: Actually you've got to have data,
21 you've got to have something to measure, and if you measure

1 in a 000, would you believe zero?

2 MS. DONLEY: We're finding --

3 MR. WEBER: No, I guess not.

4 MS. DONLEY: We're finding it more now, we're
5 finding it more now than we ever have before. And I think
6 as we continue to develop more sensitive tests, as we
7 continue to evolve, we're going to continue to find it more,
8 and I think anytime we have something and we can divert this
9 dangerous product off the market or divert it into a cooked
10 product, I think we are definitely protecting the public
11 health and safety, and I want to go record saying I think
12 this program needs to be strengthened and not dismantled in
13 any way, shape or form.

14 Also, I want to talk -- Rosemary brought up a very
15 interesting point about tracing it back from contaminated
16 ground product, back to a slaughter plant, and something
17 that STOP has always maintained is that a way to effectively
18 manage at the processing level is to reduce your pooling of
19 raw products so that you can identify which of your
20 suppliers is giving you the better, cleaner product.

21 So that is something that we have always

1 advocated, that grinders do limit the amount of pooling that
2 they do of trims and products.

3 MR. BILLY: I'm going to wrap this up here
4 shortly, so Jim, then Caroline, and then the chairman of the
5 subcommittee.

6 MR. DENTON: Apparently I'm not quick enough on
7 the draw because some of the points that I have to talk
8 about have already been talked about just a little bit. But
9 I do want to make at least two things clear, particularly as
10 I speak to Phil here.

11 Number one is that we do not want to in any way be
12 considered adversarial. We would like to be considered a
13 partner --

14 MR. DERFLER: Right, that's true.

15 MR. DENTON: -- with regard to the agency and what
16 the committee is charged with doing.

17 Listening to what Katie has said about HACCP leads
18 me to my second point. I probably believe as strongly in
19 HACCP has a food safety system as anybody sitting at the
20 table. We have been engaged in education of our industry
21 since 1994, with regard to HACCP principles.

1 I have difficulty understanding and accepting that
2 a temperature monitoring on receiving incoming raw product
3 constitutes a CCP in the situation that Katie described. If
4 we monitor the temperature and everything is as it should
5 be, we have not done anything that would reduce, eliminate
6 or control that particular pathogen. It has to be addressed
7 at an earlier step in the supplier who provides that
8 particular product.

9 I think we all are going for the same objective.
10 I just can't quite in my knowledge of what HACCP is and how
11 we control this particular organism --

12 MR. DERFLER: Right.

13 MR. DENTON: -- can see that we are doing any good
14 in that approach.

15 MR. DERFLER: Can I just sort of -- I mean, I take
16 your comment and I hope that we are partners. I just wanted
17 to say there was one intervention that I didn't mention in
18 part because I wanted -- I thought it was important that
19 people, you know, talk about it, and it's one of the newer
20 developments that we have.

21 I mean, we have approved their use of a radiation

1 with this -- to get ground beef -- of beef to take care of
2 this pathogen in part. That may not be the answer. It is
3 there. It's another alternative. And I just wanted to put
4 that back on the table.

5 MR. BILLY: Caroline?

6 MS. DEWAAL: Thank you.

7 I just want to make two points because I think
8 they are very important to remember as the subcommittee goes
9 into tonight's meeting.

10 First of all, the Kansas State study, one of the
11 things that it showed to me that I thought was very
12 important, and by the way, there have just been numerous
13 meetings on this particular policy since last year. So if
14 people had attended those meetings, they will be going into
15 tonight's meeting with a lot of information. If they
16 haven't been, they will be at a disadvantage.

17 But in the Kansas State data it did show that the
18 product -- the E. coli 0157:H7 could be transferred from the
19 exterior of the meat to the interior during the needling
20 process. And then their data also looked at cooking and
21 whether that was sufficient to eliminate it. But the key

1 was that the needling did in fact introduce 0157:H7 into the
2 interior of the meat. So I think that's a very important
3 point to remember as you go into tonight's meeting.

4 Secondly, the industry data on carcass sampling
5 that was discussed at the meeting a couple weeks ago, or
6 months ago now, I guess, I think that would be very
7 beneficial if we could get a copy of that data for tonight's
8 meeting. And the reason is that --

9 MR. DERFLER: They never submitted it to the
10 agency, to my knowledge.

11 MS. DEWAAL: Do we have any of the slides from
12 their presentation?

13 MS. STOLFA: Probably in the transcript we would
14 have that.

15 MS. DEWAAL: Okay, because I think -- you know,
16 Gary has come in with some unpublished data that, you know,
17 they have run a couple of -- you know, they have run 500
18 samples on -- you know, he's coming with some data. Well,
19 the industry presented a whole bunch of data at the meeting,
20 and what it showed was -- and it was actually pretty
21 exciting. They tested, and I'm remembering this and maybe

1 someone in the audience will during the public comment
2 period actually give a better presentation, but they tested
3 it at a number of points. They tested carcasses for E. coli
4 0157:H7, and what they were showing is that their current
5 systems were in fact reducing 0157:H7 on those carcasses.

6 Well, what that says to me is carcass sampling can
7 be used as a HACCP verification tool because if you found
8 it, I mean, in a working HACCP system, you would have
9 0157:H7 on the carcasses before the processes has worked,
10 and at the end of the line you should have zeroes. But if
11 you had a positive, it would clearly show you that the
12 system was not working.

13 The goal of micro testing in some cases is to get
14 lots of zeroes because you are verifying that the system is
15 working. And I do believe that that data would be -- seeing
16 that it's already been presented to the agency in a public
17 forum in an agency meeting would be very beneficial to the
18 discussion tonight. That is the best data available on
19 carcass sampling as a HACCP verification tool.

20 So I hope the agency might be able to get that for
21 us.

1 MR. BILLY: Carol, you have the last word.

2 MS. FOREMAN: At least until we get together this
3 evening.

4 Table 2 in the -- under this tab 8 shows where
5 E.coli cases have gone from 1987 to 1999, and there has been
6 by and large a continuing decline in the number of cases; is
7 that right? Is that what Table 2 shows?

8 MR. DERFLER: Right.

9 MS. FOREMAN: So I think by and large something
10 that both the industry and the government have been doing
11 has been working to benefit the public, and I think that
12 testing is an important role in that.

13 Could I draw something on the board for just a
14 minute? There is a continuing problem that I have about
15 what is HACCP.

16 No one has ever said that my handwriting is great,
17 but it would seem to me that part of the disagreement that
18 we keep having here is about -- of HACCP. It seems to me
19 that HACCP with company X, and that's what the company does
20 to meet its standards using a HACCP system. It's a
21 verification to meet whatever the company requires to put

1 its trademark on a particular product.

2 And then there is HACCP today for a different kind
3 of trademark, the USDA seal of approval.

4 If you are doing HACCP verification for your own
5 trademark, that's where you set your standard. But if you
6 are doing HACCP to get this trademark, the USDA seal of
7 approval, then there has to be something in that
8 verification that says this needs a public health goal and
9 it's good enough to assure public confidence.

10 It seems to me that the indications of -- they
11 might not be the same. They may not be the same. They
12 should be, but they may not be because you have some people
13 who are selling not under their own trademark. You have
14 some people who clearly just don't care, and you have some
15 who are just incompetent.

16 This is the thing that says you have to be
17 competent and you have to have a standard that's good enough
18 to get this seal on. And I think that for public confidence
19 you not only have to have HACCP and all of the
20 identification and control and reports, but you have to have
21 in addition to that the testing of end product in order to

1 assure public confidence.

2 Now, we keep having it suggested to us that we
3 take this, that and the other back to the micro committee.
4 The micro committee has an assignment to deal with
5 scientific data. I think we are the ones who are assigned
6 the responsibility for determining what it is that is
7 appropriate in order to assure public health and public
8 confidence in particular, and it goes along with the USDA
9 seal, and that's why I think it's appropriate for us to be
10 discussing this, and that's just lead in to where we go
11 tonight.

12 MR. DERFLER: Thank you.

13 MR. BILLY: Okay, we're going to wrap this up?

14 MS. MUCKLOW: Can I just have one last word?

15 (Laughter.)

16 MS. MUCKLOW: I would just like to redeem the
17 reputation of Colin Gill. He is a most distinguished
18 international microbiologist. He has written an excellent
19 paper that was the conclusions of the best microbiologists
20 in this country who met at the International Livestock
21 Congress in Houston in February. Be glad to provide that

1 paper by e-mail to anybody. It's on sampling and testing.
2 He is not outdated. He is on the cusp of the future. He's
3 not setting with the sunset.

4 MR. BILLY: Thank you.

5 All right, the next and final issue to be
6 presented for consideration by the committee and then the
7 subcommittee this evening is listeria development, and this
8 presentation will be by Judy Riggins. This is a follow-up
9 to a day-long meeting we had yesterday on this same subject
10 area, and I know many of you participated in that.

11 Judy, would you please set the stage for the
12 discussion this evening and you will find the materials
13 under tab 9.

14 MS. RIGGINS: I would like to focus your attention
15 to tab 9. We provided you with an executive summary which
16 summarizes all of the information that I'm going to talk to
17 you about today. You also received this morning a much
18 larger package which is our white paper on listeria, which
19 basically tells the history, where we have been, where we
20 are now, and where we are going, so with that I'll begin.

21 Last year the agency increased its focus or

1 strengthened its focus on listeria monocytogenes in response
2 to an increase in the number of recalls that we experienced,
3 attributable to listeria monocytogenes in ready to eat meat
4 and poultry products. And we held a public meeting. We
5 also developed an action plan.

6 One of the centerpieces of that action plan was a
7 reassessment notice that was published in the Federal
8 Register in February of 1999, which basically said to the
9 public we consider listeria to be a hazard reasonably likely
10 to occur. And based on that determination we instructed
11 companies to reassess their HACCP plans to determine what
12 appropriate actions might be taken to reduce an eliminate
13 the occurrence of listeria in ready to eat meat and poultry
14 products.

15 If you look on page 6 of the large package, there
16 is a complete description of all of the actions that we
17 completed in response to that action plan last year.
18 Yesterday at our meeting we went through an entire litany of
19 those. In the interest of time this afternoon, I will just
20 move on, but I just wanted you to note that the list of
21 accomplishments is on page 6 and it goes on for several

1 pages.

2 On May 6th, President Clinton gave us at USDA and
3 HHS a memorandum which basically was a directive that
4 instructed us to -- instructed us to achieve the
5 administration's goal of reducing listeriosis by 50 percent
6 by 2005 instead of by 2010, the original goal in the Healthy
7 People 2010, was to eliminate it by or to reduce it by half,
8 by 2010. So we are not ratcheting up our purpose and our
9 aggressive actions to reduce from .5 to .25 per 100 cases
10 per year.

11 MR. BILLY: One hundred thousand.

12 MS. RIGGINS: I'm sorry. What did I say? I'm
13 sorry. One hundred thousand cases per year. We know that
14 listeria has a very high fatality rate. Although people
15 don't become ill from it as often as they do from other
16 pathogens, when they do become ill that there is a higher
17 risk of dying from it. We know that those who are at risk
18 are the very young, the very old, and those who are immune
19 compromised, and pregnant mothers can pass it from
20 themselves to their children while they are pregnant; in
21 other words, in the womb.

1 So we know that it is a serious illness that we
2 must address. And the President in his directive basically
3 said to Secretary Glickman and to Secretary Shalala that he
4 want us to, as I said, reduce the number of cases by 50
5 percent, and to Secretary Glickman he gave a more specific
6 goal of reporting back within 120 days on an aggressive set
7 of steps that we would take to significantly reduce illness
8 from meat and poultry, ready to eat meat and poultry
9 products.

10 He directed us to propose regulations for comment
11 that would include any appropriate microbiological testing
12 and other industry measures to prevent cross-contamination
13 in the processing environment, to ensure that processing of
14 ready to eat meat and poultry products meet appropriate
15 standards and to ensure that such products are safe
16 throughout their shelf life.

17 And so with that we have -- with that directive we
18 have developed a much more aggressive action plan which you
19 will find in tab 9, and I will walk you through that right
20 now.

21 We are proposing to do a very comprehensive

1 rulemaking which will basically be -- the framework will be
2 a performance standard for meat and poultry, ready to eat
3 meat and poultry products which will include provisions for
4 listeria that are specifically targeted at listeria
5 elimination in processed meat and poultry products.

6 We plan to require or propose to require that
7 companies conduct listeria species testing in their
8 environments as verification of their standards sanitation
9 operating procedures.

10 We also will propose that FSIS will conduct
11 listeria monocytogenes testing of the finished ready to eat
12 meat and poultry products as verification of the
13 effectiveness of HACCP plans.

14 We will also develop industry guidance in
15 conjunction with the rulemaking which will provide
16 information on appropriate interventions for the elimination
17 of listeria in ready to eat meat and poultry products.

18 We have also started to conduct in depth reviews
19 and in those in depth reviews we will make sure that we
20 review all documentation relative to listeria testing and
21 any other interventions that companies might include in

1 their HACCP plans or in their SSOPs to address listeria.

2 We are awaiting the publication of the interagency
3 risk assessment, which we expect to come out some time in
4 July, which will identify for us the most risky foods. We
5 know that from our 1993 and 1999 data that meat and poultry
6 products, more specifically hot dogs and luncheon meat, are
7 among the riskiest foods for listeria.

8 We also plan to modify specifications for ready to
9 eat products for USDA commodity programs, so we are working
10 with AMS and with FNS to develop guidelines for the
11 contracts that would be let for those products, for the
12 purchases of those products.

13 We also plan to investigate instructional labeling
14 on those products to provide information that those who use
15 those products in the commodity programs will have in
16 preparing those foods for school children and for elderly
17 and others who are in the feeding programs.

18 We are also working on an interagency and actually
19 constituents working group that will develop public messages
20 with regard to listeria. Some of the members here are also
21 on that working group. We expect to develop those messages

1 some time during this summer.

2 And we will also use the information that we gain
3 from the risk assessment and other information from CDC to
4 develop consumer messages and to improve and clarify the
5 information that we currently have for consumer education.

6 And we also plan to do research. That's a longer
7 term, a longer term plan is to work with ARS to conduct a
8 three-month study which will look at the prevalence of
9 listeria in ready to eat hot dogs over their shelf life to
10 see what grow up is, to see what information we can gain
11 that will help us in determining what interventions might be
12 useful, might be effective in eliminating listeria
13 monocytogenes in ready to eat products.

14 So the questions that we would like you to focus
15 on this evening are: The agency would appreciate feedback
16 from the committee on possible additional measures for
17 control of listeria monocytogenes, including those described
18 in the updated action plan, as well as additional measures
19 that the committee envisions.

20 Secondly, we would like you to give us feedback on
21 the specific types of research that the committee believes

1 would be appropriate to understand the organism and its
2 mechanisms in order to enable intervention to prevent or
3 reduce the likelihood of foodborne illness.

4 And thirdly, we would like your feedback on data
5 needs and specific sources of data needed to support
6 rulemaking and education, to prevent or reduce the
7 likelihood of foodborne illness.

8 And with that I'll take any questions you might
9 have.

10 MR. BILLY: Katie?

11 MS. HANIGAN: Judy, one of the action points laid
12 out here is the in depth verification review, and I see it
13 talks about a revised draft.

14 MS. RIGGINS: Mm-hmm.

15 MS. HANIGAN: I think we first saw that
16 information in November of last year. So I am wondering
17 where we to date, we, the agency? How many of these in
18 depth verifications have been done since the last time this
19 committee met?

20 MS. RIGGINS: I don't have the exact number. We
21 have conducted about half a dozen and they were for "for

1 cause" this year. We have focused our resources on those
2 cases where we felt we needed to have more information about
3 what was going on in the plant. In cases where companies
4 failed their salmonella sets, for instances, we have
5 conducted in depth reviews, and in some other more serious
6 enforcement cases. So we have focused our resources this
7 year thus far on "for cause" in depth reviews.

8 Next year we plan to institute random in depth
9 reviews so that we are not only doing reviews for cause but
10 are also randomly reviewing both small and large and very
11 small companies to ensure that we have a better
12 understanding of the hazard analyses and their HACCP plans
13 and the decisions that they made with regard to food safety
14 basically in their plants. So we do intend to initiate a
15 random testing or a random review next year.

16 MS. HANIGAN: And does that all hinge on an
17 earlier presentation we had where they talked about the
18 consumer safety officers positions not being filled? I mean
19 does that --

20 MS. RIGGINS: We have not yet -- no. We have not
21 yet reached the point of filling a significant number of

1 consumer safety officers. We are planning to use HACCP
2 experts from the tech center, HACCP experts from
3 headquarters, microbiologists from headquarters, food
4 technologists from headquarters, along with HACCP
5 coordinators in the district offices. And they will conduct
6 the reviews in conjunction with the IIC and the circuit
7 supervisors. And we will have a complement of skill sets
8 for each review.

9 We are not at a point where we have CSOs in place.
10 Over time we hope to achieve that, but we don't have that
11 right now.

12 MR. BILLY: Rosemary?

13 MS. MUCKLOW: Katie mentioned in depth reviews and
14 Judy addressed it.

15 It is my recollection that at the November meeting
16 we made some recommendations from the committee about the in
17 depth reviews. And when I looked at the update on the
18 recommendations, I didn't see any mention of that on the
19 recommendations.

20 I particularly remember that we talked about doing
21 it more like a third party audit company does things, and

1 having an exit interview before departing. And I happen to
2 know of a recent in depth review where there was no
3 meaningful exit interview, and so I would appreciate it if
4 we could go back and catch that recommendation from the last
5 meeting and get it into the system.

6 MS. RIGGINS: I'm not sure what happened in the
7 case that you just described, but our procedure does all for
8 an entrance and an exit interview, and then we would also
9 put in writing any findings that rise to the level of
10 concern so that the company has a full understanding of what
11 we found. So that is in our current procedures, so I don't
12 know what happened in that particular case, but that's our
13 intention.

14 MS. MUCKLOW: But there was nothing about that
15 recommendation in the updates that we were provided as a
16 committee here today, and I know that we made
17 recommendations. I think you were part of our discussion on
18 that last November.

19 MS. RIGGINS: Yes. You mean that in this we
20 didn't describe what we incorporated and what we did not?
21 Is that what you mean?

1 MS MUCKLOW: Yeah.

2 MS. RIGGINS: Okay.

3 MS. MUCKLOW: Well, we didn't include the
4 recommendations we made as a committee and I just -- it
5 touched my brain when I heard about this recent review where
6 there had not been that kind of a closing discussion.

7 MS. RIGGINS: Okay.

8 MR. BILLY: Caroline?

9 MS. DEWAAL: Thanks, Tom.

10 Yesterday industry -- the industry groups also
11 presented some very exciting data and I know Dane Bernard
12 and Denny Stotz is back in the -- are back in the audience,
13 and perhaps they will come up and talk about it during the
14 public comment period.

15 But what I got out of that information is that
16 clearly the state-of-the-art testing regime for the industry
17 right now involves both environmental testing and end
18 product testing, and the numbers were quite high, and Dane
19 will correct me if I'm wrong, but it was something like 100
20 percent of the large plants were doing industry testing,
21 environmental testing, and something like 88 percent were

1 also doing end product testing. So it was very compelling
2 evidence that these systems are in use and that they really
3 do represent the state of the art.

4 My question to the agency is if that represents
5 the best possible approach for the industry to evaluate its
6 own process, why aren't we using the similar system to
7 verify the HACCP system, and for the -- and for the industry
8 as well, to verify their own HACCP system?

9 So why aren't we mandating that the industries --
10 that the companies use these state-of-the-art systems that
11 the industry has already put forward and that the government
12 also used verification techniques which are very similar?

13 So I hope that the agency is going to fully
14 address why they are not mandating end product testing as
15 part of this proposed rule in response to the President's
16 request, and why they are not using techniques to really
17 enforce, better enforce the performance standard we have
18 today for listeria monocytogenes on ready to eat products,
19 which is zero tolerance.

20 So I really hope that the agency is going to give
21 us that information.

1 MR. BILLY: Any other comments?

2 (No response.)

3 MR. BILLY: Okay, thank you, Judy.

4 Okay, that completes the presentations and issues
5 discussion. Now we are going to move to the public comment
6 period. Two people have identified their interests in making
7 presentations. The first I would like to call to the
8 microphone is Dr. Amy Raines, who is with the American
9 Ostrich Association, who wishes to speak on the inspection
10 for non-amenable species.

11 It's on. Go ahead. Go ahead.

12 MS. RAINES: As an ostrich producer and president
13 of the American Ostrich Association, it's been a little
14 frustrating by the lack of urgency that this particular
15 committee's progress on the issue of mandatory inspection
16 for non-amenable species. I guess that means that nobody
17 has died yet from eating ostrich meat.

18 But like all good ratite producers, we haven't put
19 all our eggs in one basket, and have other items underway to
20 achieve mandatory inspection.

21 Our request is to urge the secretary of

1 agriculture to support mandatory inspection for non-amenable
2 species by whatever means it can be achieved, and suggest
3 that this progress move forward with data available with a
4 possible bill and use ratites as a model for updating the
5 ongoing food safety inspection program.

6 It seems apparent that there are many other
7 species now being produced for food that do and will have
8 the same inspection requirements, and the sooner the process
9 for future additions of non-amenable species can be
10 perfected the better these food industries and their
11 consumer markets will be served.

12 Thank you.

13 MR. BILLY: Okay, thank you very much.

14 And then the last person requesting to speak is
15 Susan Rivvole? I can't read the writing. Sorry. R-I-V-V
16 something.

17 MS. RIBBONS: It's Susan Ribbons.

18 MR. BILLY: Ribbons?

19 MS. RIBBONS: Yes.

20 MR. BILLY: Okay.

21 MS. RIBBONS: And I really just wanted to kind of

1 open dialogue or make a further suggestion on some of the
2 comments that were made regarding the 0157 and the agency
3 looking for a possible CCP in that point.

4 And as a grinder, if we have prerequisite programs
5 at receiving, and I think we thoroughly discussed the
6 refrigeration is not an adequate control, I think it goes
7 one step further; that if we did look at that and address
8 that as a CCP, it's certainly easy to control refrigeration.
9 We expend a lot of energy in those areas.

10 But then if sampling is performed and a positive
11 should occur, we infer that that means that the HACCP plan
12 has failed, and that is a large concern to people that are
13 further processor. So I would just like to make that point.

14 MR. BILLY: Great. Thank you.

15 MS. JOHNSON: Mr. Billy, there was on the 0157:H7
16 there was a lot of discussion about the AMI program, and I
17 know Carolyn mentioned it several times. I just wondered if
18 there is anybody -- Kim, do you want to -- are we getting
19 copies for the subcommittee and was there anything else?

20 MS. DEWAAL: Yeah, I've got somebody making copies
21 of the presentation and the executive summary of the

1 research that's been available since the 29th of February on
2 the American Meat Institute Foundation web site.

3 But to clarify your question, Caroline, there were
4 three sites that were tested. It was hides, prior to
5 intervention and post-intervention.

6 MS. DEWAAL: Thank you.

7 MR. BILLY: Are you having them brought over to
8 the committee or is that the --

9 MS. RICE: I asked that they be here by 5:30.

10 MR. BILLY: Great. Okay, and we'll make them
11 available to the public as well.

12 Any last minute thoughts from anyone? I know you
13 are all tired. I am.

14 VOICE: Can we leave our stuff in the room?

15 MR. BILLY: Can they leave their stuff in the
16 room?

17 No, I'm sorry, because they are a part of our
18 physical fitness.

19 The committee meetings will start at seven. If
20 any of the committee members can't remember which
21 subcommittee they are part of, please check with Mike or one

1 of the other staff people. It's also under tab 3 in your
2 book.

3 This is real important. This is where the real
4 work of the committee gets done, so I really appreciate your
5 commitment by working through the evening and look forward
6 to getting your recommendations in the morning.

7 Thank you all very much.

8 (Whereupon, at 5:02 p.m., the meeting in the
9 above-entitled matter was recessed, to resume at 8:30 a.m.,
10 on Wednesday, May 17, 2000.)

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