

UNITED STATES DEPARTMENT OF AGRICULTURE

MEETING ON HACCP-BASED INSPECTION MODELS PROJECT

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1900 North Fort Meyer Drive
Arlington, VA 22209

Heritage Reporting Corporation
(202) 628-4888

PARTICIPANTS:

CAREN WILCOX

THOMAS J. BILLY

MARGARET O'K GLAVIN

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9:03 a.m.

MS. WILCOX: Good morning everyone. I'm Caren Wilcox, the Deputy Under Secretary for Food Safety, and I'm pleased to welcome you to the fourth public meeting on the HACCP-based Inspection Models Project.

This meeting honors our commitment to meet with you, our constituents, at key stages during the process of this project to keep you up to date and to present any new data generated through the project.

As you know, USDA has carried out a science-based food safety strategy over the past five years and we've made very, very good progress on many fronts. HACCP has been successfully implemented and we are seeing substantial reductions in the prevalence of salmonella in raw meat and poultry products produced under HACCP. We're delighted that those efforts have been independently evaluated by CDC.

Progress has also been made through the President's Food Safety Initiative which set in motion a number of activities that have contributed greatly to reducing food-

1 borne illness. Improved surveillance and outbreak response,
2 new food safety research and developments in the science of
3 risk assessment are among these improvements.

4 The President's Food Safety Council is
5 building on the achievements of the Food Safety Initiative
6 through comprehensive strategic planning and budget
7 coordination activities. This Administration is committed to
8 continuing this progress until we can honestly say that the
9 food supply is as safe as it possibly can be. That's why
10 we're here today.

11 As with all of our food safety initiatives, this
12 project has been developed through a very public process with
13 ample opportunity for input. In addition to holding public
14 meetings and publishing Federal Register notices with the
15 opportunity for comment, we've consulted with the National
16 Advisory Committee on Meat and Poultry Inspection and the
17 National Advisory Committee on Microbiological Criteria for
18 Foods. We welcome input on the models project because it
19 will help us design a system that is the best it can possibly
20 be.

1 We will not move forward with implementing the new
2 system unless we are confident it is effective in protecting
3 the public health. And I want to thank you in advance for
4 all your interest and involvement, and I look forward to the
5 day ahead.

6 MR. BILLY: My name is Tom Billy, and I'm the
7 Administrator of the Food Safety and Inspection Service. I
8 too want to welcome all of you to this public meeting on the
9 HACCP-based Inspection Models Project.

10 Now we know that's a lot of words, so we very often
11 refer to this project as HIMP, H-I-M-P, and you're going to
12 hear that a lot today. But when we say HIMP, we mean HACCP-
13 based Inspection Models Project.

14 As Ms. Wilcox said, we have made much progress in
15 implementing our overall science-based strategy for change.
16 HACCP is the cornerstone of that strategy because it provides
17 a foundation, a structure for making continuous food safety
18 improvements as science and technology advance.

19 The HACCP-based Inspection Models Project, the HIMP
20 project, is the next step in HACCP implementation. By

1 extending HACCP to the slaughter line, we can build on the
2 achievements that we've made so far.

3 Now I recently toured one of the young chicken
4 plants that's in the project, the Rocco Plant in Virginia. I
5 was very impressed with the commitment of both our inspectors
6 and the plant personnel to making this system work to improve
7 food safety. In talking to our inspectors we found that they
8 were very enthusiastic about the new work they are doing.
9 That is the different roles that they're playing. And that
10 in particular they could focus more of their time on food
11 safety checks.

12 I was also impressed with the plant's process
13 controls. The birds that we saw in the plant looked very
14 good and easily passed the FSIS verification checks as I
15 watched our inspectors carrying out their verification
16 activities.

17 Our initial experience with the new models is very
18 promising, but we in FSIS are proceeding with this project
19 very carefully, in a step-wise manner, because it represents
20 such a significant change.

1 We will not make any permanent changes until we are
2 sure that the new system meets or exceeds the achievements of
3 the traditional system on a sustained basis. Data from
4 plants operating under the new models will be compared to the
5 baseline data collected under the traditional system. These
6 before and after comparisons will help us determine how best
7 to proceed.

8 Before we begin with the details of the information
9 we want to share with you today, let me update you on where
10 we are with this project.

11 Twenty-four plants are now participating; 16 plants
12 that slaughter young chickens, five plants that slaughter
13 market hogs, and three plants that slaughter young turkeys.
14 At the moment, an additional 15 young chicken plants and one
15 market hog plant would like to participate in the project.
16 Those numbers, 15 and one, or 16 total, are in addition to
17 the 24 plants now participating.

18 No beef plants are participating at this time,
19 although there is interest on the part of the beef industry
20 and there have been recent discussions with several

1 companies.

2 Just as a point of clarification, the project was
3 originated for young chickens, swine and cattle and young
4 turkeys were added at the request of the turkey industry.

5 Baseline organoleptic and microbiological data have
6 been collected for the 16 young chicken plants, and if you
7 will recall or participated in our last public meeting, at
8 that time we had data for four or five plants, and now today,
9 we will be presenting to you completed data for all 16 young
10 chicken plants. These data will be presented later this
11 morning.

12 Eleven young chicken plants and two of the market
13 hog plants are now in the transition to the models testing
14 phase. That means that they've not only completed the
15 baseline, but now are at some stage in terms of the models
16 phase. Often there's a time period before they actually get
17 started in terms of our data collection. But we think that's
18 good progress and we're going to be moving forward very
19 quickly now in the last several months to collect additional
20 data in all 16 of the chicken plants.

1 These plants are responsible for meeting our FSIS
2 established performance standards, both for food safety and
3 for other consumer protections. Under FSIS oversight
4 inspection and verification inspection.

5 In addition, these slaughter facilities must
6 continue to meet all other applicable FSIS regulatory
7 requirements.

8 After allowing some time for things to settle down
9 once the plant starts assuming these additional
10 responsibilities, that is some of the sorting activities and
11 that kind of thing, then the data collection under the new
12 models begins in order to compare the new system to the
13 traditional system.

14 This data collection has begun in four plants, that
15 is four young chicken plants. We do not yet have the data
16 collected under the models in a form that we can make
17 available to share with you, but it is our plan to hold
18 another public meeting this summer to share that data and
19 data from additional plants that will also have completed the
20 models phase part of this project.

1 As we proceed with the presentations this
2 afternoon, you will hear more about our progress so far under
3 the models phase of the project, and in particular the
4 performance standards that we've developed to this stage.

5 It's now my pleasure to turn the meeting over to
6 Maggie Glavin who will be reviewing the agenda and the
7 logistics for the meeting.

8 MS. GLAVIN: Thank you, Tom.

9 As Tom said, I want to quickly review the agenda.
10 We have a very ambitious agenda today. We hope to keep
11 moving at quite a pace.

12 But before I do that I'd just like to mention
13 several groups who are here with us in the audience. I'm not
14 going to go into individual names in the interest of time,
15 but first of all, we have the agency steering committee on
16 the HACCP-based Inspection Models Project, and many of those
17 individuals are here at the table. We also have
18 representatives of Research Triangle Institute and their
19 subcontractors. Research Triangle Institute is the
20 contractor who is collecting data for us in the models.

1 project. And we have representatives from plant management
2 in the volunteer plants here with us today.

3 Today's meeting will focus on young chickens,
4 because this is where we've made the most progress so far. I
5 understand that you all have a copy of this sheet that shows
6 the status of plants in the project, so you can see that we
7 are farther along in the project with respect to young
8 chickens and hence are focused on that today.

9 During the morning there will be a presentation by
10 Dr. Karen Henderson and others who will describe the
11 traditional young chicken inspection system. This overview
12 we think will help to facilitate the comparison to the new
13 HACCP-based system this afternoon.

14 After Dr. Henderson's presentation we'll have the
15 opportunity for questions from the audience. Then if we're
16 still on time we'll take a short break. If we're not on
17 time, no break.

18 After the break Don Anderson of Research Triangle
19 Institute will present the final complete baseline dataset
20 for young chickens. As I mentioned, we have contracted with

1 RTI for data collection and analysis under the project.

2 Many of you will remember that at the last meeting
3 Dr. Anderson presented preliminary baseline data.

4 Again, after his presentation we'll have the
5 opportunity for questions from the audience.

6 We'll break for lunch at about 11:30. We'll try to
7 keep that to an hour, again in the interest of getting
8 everything in. Then return for afternoon presentations on
9 the HACCP-based Young Chicken Inspection System.

10 Specifically we'll hear the following
11 presentations, and we have this row of illustrious presenters
12 here. Dr. William James will discuss how the food safety and
13 other consumer protection categories were developed. Dr. Dan
14 Engeljohn will describe our current thinking on performance
15 standards for each of those categories. Dr. Harry Walker
16 will outline the procedures followed in reviewing plant HACCP
17 and process control plans in preparation for implementing the
18 models. Dr. Hany Sidrak will describe how oversight
19 inspection and verification inspection is conducted in plants
20 operating under the new system. And Dr. Ken Peterson will

1 discuss in-plant control actions.

2 So that's going to be a very full set of
3 presentations in the afternoon. Again, after those
4 presentations we will again open up the meeting for
5 questions.

6 We are scheduled to adjourn at 3:00. Again, I
7 think we're being quite ambitious here to get all this done.

8

9 We have a number of handouts that are available and
10 they will be very helpful for you in following the
11 presentations. Although we have slides, we do also have hard
12 copy handouts and if you haven't gotten those I would suggest
13 before the presentations start that you take a trip to the
14 table and make sure you have those handouts.

15 With that, unless there are any questions about the
16 agenda, we will proceed with the first presentation.

17 For the morning session, Danielle Schor will serve
18 as the moderator; and then this afternoon John McCutcheon
19 will moderate the session.

20 Dannie?

1 MS. SCHOR: Good morning. I'm Danielle Schor and I
2 will serve as moderator for the first session of the public
3 meeting.

4 I'd first like to introduce the panel who is
5 sitting over here so they don't block the view of the screen.
6 First, Dr. Karen Henderson who is with the Office of Field
7 Operations; Dr. William James with the Office of Public
8 Health and Science; and Dr. Hany Sidrak with the Office of
9 Policy Program Development and Evaluation.

10 We will begin with a presentation by Dr. Karen
11 Henderson who will provide an overview of the traditional
12 young chicken inspection system. This will set the stage for
13 the presentation on the accomplishments of the current system
14 later this morning, and a discussion of the new HIMP system
15 this afternoon.

16 During Dr. Henderson's presentation I will be
17 asking a few questions just to clarify some key points she'll
18 be making.

19 Following her presentation the panel here will be
20 available to answer any questions from the audience on the

1 current system.

2 So I'll turn it over first to Dr. Henderson for her
3 presentation.

4 DR. HENDERSON: Thank you, Danielle. Good morning.

5 The United States Department of Agriculture
6 inspection of poultry began on a voluntary basis in 1928 and
7 became mandatory in 1959. Broilers, or young chickens,
8 account for nearly all of the poultry slaughtered in this
9 country. Most poultry firms closely control production of
10 young chickens throughout their life cycle from hatching to
11 slaughter.

12 The industry has been successful in limiting the
13 occurrence of disease, chemical residues and other
14 production-based contaminants. Under the current system less
15 attention has been paid to preventing slaughter and sanitary
16 dressing problems.

17 In order to understand the significance of the
18 young chicken HACCP-based models project known as HIMP, it is
19 necessary to know how the current slaughter inspection system
20 works. FSIS conducts a number of inspection activities that

1 are related both to food safety and to other consumer
2 protections.

3 Antemortem inspection is the examination of life
4 young chickens by the FSIS inspection personnel to detect
5 signs of disease on a lot-by-lot basis. Inspection
6 determines whether the birds are passed, condemned, or
7 identified as suspect.

8 Postmortem inspection is the continuous examination
9 of young chicken carcasses and viscera on a bird-by-bird
10 basis to detect and eliminate disease and abnormal carcasses
11 and parts. Plants are required to provide an inspection
12 station.

13 Carcasses must be presented by the plant so
14 inspectors can thoroughly examine the entire carcass,
15 including the internal and external body surfaces and all the
16 organs.

17 A trained company employee called a trimmer or
18 inspector's helper must be assigned to each inspector. This
19 employee trims carcasses, removes condemned birds, marks the
20 condemnation sheet, and generally assists the inspector in

1 routine inspection procedures. These company employees also
2 mark carcasses that will be trimmed later in the process.

3 MS. SCHOR: Just to clarify, can the inspectors see
4 what is going on at other points along the line?

5 DR. HENDERSON: No. The inspector is actually at a
6 fixed location on the line and cannot view the entire
7 inspection process.

8 MS. SCHOR: Also, how does the inspector know that
9 the carcasses were appropriately trimmed?

10 DR. HENDERSON: Actually the trimming is done
11 further down line and the process is actually out of view of
12 our inspector and that is actually verified through our
13 Finished Product Standards system.

14 One important food safety hazard that is reasonably
15 likely to occur in the slaughter production process is
16 contamination of carcasses with fecal contamination. After
17 each carcass goes by the inspector and trimmer, FSIS checks a
18 sample of these carcasses for fecal contamination. The check
19 is performed before the carcasses enter the chiller. All
20 plants must prevent poultry carcasses with fecal

1 contamination from entering the chiller.

2 FSIS performs checks for fecal material on a ten-
3 bird sample twice per line per shift. If visible fecal
4 material is found, FSIS documents the deficiency and notifies
5 the plant. After notifying the plant, FSIS verifies that the
6 plant has taken corrective action as prescribed in 417.3 of
7 the regulation.

8 MS. SCHOR: Could you repeat again, how many times
9 does FSIS carry out the zero tolerance checks?

10 DR. HENDERSON: They are twice per line per shift.

11 MS. SCHOR: Are these checks always conducted?

12 DR. HENDERSON: They are conducted unless, of
13 course, we have a staffing emergency that will not allow our
14 employees time to conduct the tests.

15 MS. SCHOR: What are the normal corrective and
16 preventive measures that plants carry out when a defect is
17 found?

18 DR. HENDERSON: Each plant is required to follow
19 417.3 of the regulation. To put that in simple terms, they
20 have to identify and eliminate the cause of that fecal

1 finding. They bring their process back under control, and
2 take action to prevent this from occurring again. They make
3 certain that no product with fecal material gets to the
4 consumer.

5 The Finished Product Standards system is the
6 mechanism FSIS uses to check on other non-fecal defects which
7 may be showing up on carcasses after they go by the inspector
8 and the trimmer.

9 Finished Product Standards are criteria applied to
10 carcasses before and after the chiller. They enable FSIS to
11 determine if the process is in control. Criteria for making
12 this determination consist of a set of standards for
13 nonconformances which cannot be exceeded on a ten bird
14 sample. These nonconformances may include such defects as
15 ingesta, feathers, bruises, grease, blisters, sores, scabs,
16 and other lesions.

17 The establishment is responsible for maintaining a
18 system which is in control as reflected in the finished
19 product standards checks. These procedures are conducted
20 hourly for each line by the plant, while FSIS conducts its

1 tests twice per line per shift.

2 Because they do not address food safety issues,
3 Finished Product Standards are not covered by the HACCP plan.
4 Establishments follow 9 CFR 381.76 to determine when they
5 must take action due to loss of control.

6 Under Finished Product Standards defects are
7 categorized. The sum of the defects is calculated against
8 the standard. Examples of FSIS test results would be on a
9 ten-bird subgroup five birds are each identified with a
10 defect of sores, scabs or inflammatory process that measure
11 less than or equal to half of an inch in the greatest
12 dimension. The five defects are multiplied by two, which
13 gives them a subgroup total of ten. Two bruises greater than
14 one inch are also found. These defects are also multiplied
15 by two, equally four, which then is added to the ten. The
16 subgroup total would equal 14. This total would not exceed
17 the absolutely limit or the FSIS standard, and the process
18 would be considered in control for trim non-conformance.

19 MS. SCHOR: Dr. Henderson, why do you multiply by
20 two?

1 DR. HENDERSON: Each of these defects or non-
2 conformances is weighted and each has a different weight. In
3 this case the sores and the inflammatory process carries a
4 weight of two and also the bruises will carry a weight of
5 two. Other defects in the testing would carry only a five.
6 They all have different weight --

7 MS. SCHOR: So it looks like chickens that reach
8 consumers then may have a certain number of defects.

9 DR. HENDERSON: Absolutely. There's no system that
10 we are aware of that is capable of removing every defect from
11 the process.

12 In summary, the important components of our present
13 inspection system include antemortem inspection which is
14 conducted by FSIS personnel; postmortem inspection, also
15 conducted by FSIS personnel; and Finished Product Standards
16 to verify that the system is under control.

17 Remember that with the present system the FSIS
18 inspector is in a fixed position on the evisceration line and
19 cannot view the entire evisceration process. Two, the
20 verification checks for fecal contamination are covered in

1 the HACCP plan and are conducted twice per line per shift.
2 Three, verification checks for other non-fecal defects are
3 accomplished through Finished Product Standards and are also
4 conducted twice per line per shift. Four, the present system
5 is not perfect and there are defects that reach the consumer.

6 Thank you.

7 MS. SCHOR: We'll now open the meeting up to
8 questions from the audience.

9 Are there any questions?

10 DR. LaFONTAINE: I guess somebody has to be first.

11 Dan LaFontaine from South Carolina, and I'm here
12 today representing the American Veterinary Medical
13 Association.

14 My question is this. It's on training of FSIS
15 personnel under the traditional system. The question is,
16 what are the minimum training requirements that an FSIS
17 inspector and veterinarian need to meet to be qualified to
18 work independently in this current system?

19 DR. HENDERSON: To clarify, are you speaking of
20 credentials held by these individuals or the FSIS actual

1 training material or training --

2 DR. LaFONTAINE: Looking at the FSIS unique
3 requirements, realizing there are certain baseline
4 requirements to be able to be hired as an inspector of as a
5 veterinarian medical officer.

6 So looking beyond the entry level.

7 And what is the FSIS unique training program,
8 training requirements, that would qualify this person to be
9 considered a fully functioning inspector?

10 DR. HENDERSON: I'm going to actually refer this
11 question to a gentleman sitting in the back, Mr. Marlin
12 Waller.

13 MR. WALLER: Thanks, Karen.

14 (Laughter)

15 MR. WALLER: If you're talking about formal
16 training requirements, I know that within the agency that we
17 actually send our inspectors, our new inspectors, down to our
18 College Station training center for basic training.

19 In addition to that, inspectors are provided on the
20 job training. They're always in a plant where we have other

1 experienced inspectors and they are provided on the job
2 training that way.

3 Someone else can probably add to that. Mark?

4 MR. MINA: I'll jump in here and try to help.

5 We have an extensive training program for our food
6 inspectors and veterinarians, and as Marvin mentioned, we
7 have a formalized training program that consists of several
8 weeks at the training center and also several weeks on the
9 job training. That both applies to the inspectors and the
10 veterinarians.

11 So there is an academic portion of it and we go
12 through the regulation in great detail. Also what's
13 expected from them when they work on the line.

14 So it's an extensive program.

15 VOICE: Just to dig a little bit deeper, give me an
16 idea of the subject matter that's covered in the academic
17 portion. I don't mean all the details, but what's the
18 essence of the training? Likewise, what's the skills that
19 they need to acquire on the job before they can make
20 independent judgments? What is the technical part of this in

1 other words?

2 MR. MINA: Basically as we call it training is how
3 you perform your job. Going through the mechanics of the
4 inspection, what do you expect to see, what's acceptable and
5 what's not acceptable, what kind of action you should take
6 when X happens in the plant. It goes a little bit beyond
7 just the postmortem inspection. It goes to the sanitation
8 requirement for the plant and dealing with plant management
9 and labeling and all sorts of other things.

10 MS. DeWAAL: Caroline Smith DeWaal, Center for
11 Science in the Public Interest.

12 How did you come up with the sample size both for
13 enforcing zero tolerance and also you have this ten-bird
14 subgroup. Is that the same sample set that you enforce zero
15 tolerance on? And I may have a followup.

16 DR. JAMES: Bill James. FSIS.

17 The ten-bird sample size for zero tolerance is a
18 very convenient sample size because it tracks the same
19 practical sampling that we use for finished products
20 standards in poultry since 1983.

1 MS. DeWAAL: So you use the exact same birds that
2 you're using for the non-conformance for the zero tolerance?

3 DR. JAMES: No.

4 MS. DeWAAL: So the entire basis of the sample size
5 was convenience. Was there any other basis, was there any
6 statistical background for why you chose that particular
7 sampling size?

8 DR. JAMES: Is there someone here who was more
9 involved with the zero tolerance development system?

10 Apparently not. We can probably get you a better
11 answer to that.

12 Ms. DeWAAL: Secondly, are the birds chosen
13 together? One set of ten birds together? Or are they chosen
14 randomly throughout the course of the shift?

15 DR. JAMES: When a ten-bird sample is collected,
16 the birds are collected randomly, ten birds at a time.
17 They're not necessarily ten birds in succession, but they are
18 identified randomly and selected from the line at the time
19 that the inspector goes up there.

20 Regarding statistical basis for the selection, it's

1 important to remember that we look at these collections of
2 birds over time, and a plant builds a history of compliance
3 or non-compliance. So a ten-bird sample when you look at the
4 results of that sample and compare it to the results of many
5 subsequent samples over succeeding days, we get a sense of
6 the accomplishment of that plant for that particular process.

7 MS. JOHNSON: Alice Johnson. National Turkey
8 Federation.

9 Dr. LaFontaine, you were talking about industry
10 training, and I had the opportunity to work along with Steve
11 Pretnick with some of the broilers and turkey folks involved.
12 And the agency did offer the initial poultry inspector
13 training to a lot of the pilot plants. It was a little over
14 two weeks, if I remember right. A lot of the FSIS training
15 focuses on documentation, non-compliance, and that type
16 thing.

17 Since it's not really practical for industry to
18 send everyone that they feel like they need to be trained to
19 that kind of a course, a lot of the industry participants
20 have come back and developed a curriculum outline similar to

1 what was done for HACCP. They have gone to the International
2 HACCP Alliance and in the process of getting accreditation of
3 this outline. It's very extensive, and it does involve a lot
4 of the materials that the FSIS inspectors are trained on.
5 The basic anatomy, in fact most of the programs I've seen
6 actually have the little anatomy chart as part of a little
7 quiz after the anatomy module.

8 So the plants are doing extensive training. And
9 recognizing that there needs to be some type of standard
10 outline that would be appropriate, have gone to a group like
11 the Alliance which I know AVMA is a member. There's a lot of
12 academic and industry representation to try to get the
13 accreditation process.

14 MR. BILLY: One thing, it's important, particularly
15 the first question of the day to try to be responsive, but
16 we're a little ahead of ourselves. This morning we're
17 devoting to the traditional system. The question about the
18 training and now the further discussion, we're getting into
19 what is really the meat of this afternoon's discussion. I
20 think it will be better understood by everyone as we lay out

1 what the models are and the relevance of the training to
2 what's expected.

3 So what I'd like to encourage is that maybe we
4 could stop at that point, and then if there are further
5 questions about the training or information that's needed we
6 can pick it back up this afternoon.

7 DR. LaFONTAINE: Dan LaFontaine again.

8 Mr. Billy, I agree. I felt my question was
9 appropriate because you were talking about the traditional
10 system. My colleagues from industry jumped in because they
11 could anticipate my question this afternoon.

12 (Laughter)

13 MR. BILLY: No problem.

14 DR. LaFONTAINE: I'll defer further dialogue until
15 this afternoon.

16 MR. BILLY: We can come back to it. It's fair
17 game. I just wanted to keep focused on traditional this
18 morning if we could.

19 MR. BEHRENS: George Behrens, Food Safety
20 Consortium.

1 I would like to ask the specific location in the
2 line in which these two ten-bird eco-contamination checks are
3 made. Specifically, is this before the birds are washed, or
4 is it after they have gone through the final wash?

5 DR. HENDERSON: This is after the carcasses have
6 gone through the final wash and prior to the carcasses going
7 into the chiller.

8 MR. BEHRENS: This will have considerable
9 importance this afternoon, but it's important right now to
10 get that specifically for the tradition.

11 MS. NESTOR: Felicia Nestor, Government
12 Accountability Project.

13 I wanted to follow up on Caroline's question and
14 just clarify this.

15 You said that the trimmed non-conformance samples
16 and the food safety samples are two different samples?

17 DR. HENDERSON: That is correct.

18 MS. NESTOR: And each sample is a ten-bird sample.
19 So in total we're talking about 40 birds or samples, is that
20 right?

1 DR. HENDERSON: That would depend on how many lines
2 you have in a plant.

3 MS. NESTOR: But per line, there would be 40 birds
4 per line?

5 DR. HENDERSON: Two checks per line per shift would
6 be 20 birds for Finished Product Standards and 20 birds for
7 zero tolerance.

8 MS. NESTOR: Thank you.

9 MR. BILLY: And if there were two shifts on a line
10 then that would be double that amount for a given day.

11 DR. HENDERSON: That is correct.

12 I didn't mean to take the mike away from the
13 moderator. I'm going to pass it back.

14 MR. BILLY: Other questions?

15 MS. HAUTER: Wenonah Hauter, Public Citizen.

16 Has the acceptance of defects in birds going to
17 consumers been standard practice since the 1959 law?

18 DR. HENDERSON: There is no system that we have
19 developed that has been capable of removing every single
20 defect from a bird.

1 MR. BILLY: So the answer is yes?

2 DR. HENDERSON: Yes. That is correct.

3 MR. SEWELL: Alvin Sewell representing the National
4 Joint Council of Food Inspectors.

5 For the benefit of the group you mentioned that at
6 postmortem inspection that the postmortem disposition for
7 disease is made with the visceral organs present. Can you
8 elaborate on the importance of the presence of the visceral
9 organs at the point that the decision on postmortem
10 inspection is made?

11 DR. JAMES: The normal procedure when inspecting a
12 chicken is to look at the inside, the outside, and the
13 viscera of a carcass. Each of those may possibly present a
14 lesion which would require trim or contribute potentially to
15 an overall assessment of the suitability of the carcass. It
16 could therefore, based on the lesions found in those three
17 basic parts, potentially be condemned.

18 So the viscera is a part of the carcass that we
19 currently use for helping us to make a total carcass
20 disposition.

1 MS. JOHNSON: Have you looked at, I know we've had
2 this discussion several times and a lot of the documentation
3 for why the current regulations were put in place is sketchy.

4 Have you done any type of review and pulled out any
5 type of documentation as to why certain, especially when you
6 start talking about some of the reasons why we do things on
7 the slaughter line now, some of the disease categories and
8 some of the traditional procedures that may now not be as
9 based in science?

10 DR. JAMES: We haven't done a formal evaluation and
11 summarization of all the different regulations and
12 directives, et cetera that we've published. I'm Bill James,
13 FSIS. From the Foundation of Poultry Inspection.

14 We can say that in years past we did not have as
15 complete an understanding of the public health significance
16 of certain diseases and conditions present in young chickens.

17 We did not have as good a method, the industry did not have
18 as good a method of producing birds in 1959 as they do today.

19 As an example, our regulations still state that a
20 young chicken is a bird 13 weeks of age or younger, and young

1 chickens today are generally birds marketed 42, 45 days of
2 age unless they, we are producing something commonly called a
3 roaster which might have a few more days.

4 But today's birds are marketed at a younger age so
5 they don't have the opportunity to manifest as many diseases.

6 Today's birds are more uniform. Today's birds are healthier
7 than they used to be.

8 We also hopefully have progressed somewhat in the
9 last 40 years and have a slightly better understanding of the
10 public health significance of some diseases in young chickens
11 than we did back then. And hopefully we no longer need to
12 treat all pathology as equally important.

13 Does that answer your question?

14 MR. BILLY: I could add a little bit to that, I
15 think, and I'm not an old timer as everyone knows.

16 We did make an attempt to pull out from the files
17 and anywhere we could find them information as we prepared
18 the HACCP and pathogen reduction regulation. The fact is
19 that there's very little in our files documenting the basis
20 for many of the earlier regulations or regulatory changes,

1 either of a scientific nature or otherwise.

2 The sense that I have, and this is mostly from
3 reading about the time period was that when the rules were
4 promulgated back in the late 50s they were largely based on
5 what the industry was capable of accomplishing at that time.

6 And that was captured, if you will, in regulation as the
7 basis for getting started with the mandatory program.

8 But you're correct in your assertion that the
9 preambles were not detailed, there was not a lot of
10 explanation, in fact there was hardly any explanation. And
11 clearly many of us believe that the current approach where we
12 provide much more of the scientific basis and so forth is the
13 better approach.

14 That certainly will be the approach that we plan to
15 take if, as a result of positive results from this pilot, we
16 move to the regulatory process, the rulemaking process.

17 Caroline?

18 MS. DeWAAL: Thank you. Caroline Smith DeWaal,
19 Center for Science in the Public Interest.

20 Following up on Alice's question, can you talk

1 about a current veterinary condition, airsacculitis? Can you
2 tell us a little bit about what the impact is on the chickens
3 coming into the plant, how the current inspection system
4 would address the hazard from airsacculitis or how the
5 inspectors would treat the birds coming in with airsac, and
6 also, what the public health implications of airsacculitis
7 are please?

8 DR. JAMES: Airsacculitis is a condition which
9 infects the air sacs of young chickens which come into the
10 plant. It is a problem which can be manifested on a flock
11 basis so that in some lots of birds coming in almost, many of
12 them, perhaps almost all of them do exhibit some
13 airsacculitis lesions.

14 I will be speaking a little bit more about some of
15 that this afternoon so I don't want to get into a
16 pathophysiology dissertation, but birds with airsacculitis
17 lesions must have the lesions removed for the carcass to be
18 passed. Those birds which exhibit a generalized condition
19 evolving from the airsacculitis itself are subject to
20 condemnation.

1 So for these airsac birds, to summarize what I just
2 said, the lesions must be removed or the carcass must be
3 condemned.

4 MS. DeWAAL: When you say a generalized condition
5 is that septicemia? How does that generalized condition show
6 up?

7 DR. JAMES: It can be manifested as a septicemia
8 which is a word I intended to define this afternoon, but it
9 denotes the presence of bacteria from some origin in the
10 blood stream. That is I think a good, a workable definition
11 for today.

12 The public health significance of that again is a
13 subject I'll go into this afternoon, but airsacculitis, if it
14 is manifested as a septicemic condition would be considered a
15 food safety hazard.

16 MS. DeWAAL: But the lesions, are they treated
17 under the defect standards outlined by our previous speaker?
18 The sores and bruises, et cetera?

19 DR. HENDERSON: There is a category under Finished
20 Product Standards that does address disease conditions for

1 which there is a weighted category. And please don't ask me
2 what the weight is because I don't have that by memory.

3 Yes, there is a section in Finished Product
4 Standards that does address disease categories. It's not
5 just airsacculitis, it is disease categories.

6 MS. SCHOR: Any additional questions?

7 (No response)

8 MS. SCHOR: If there are no additional questions
9 I'll turn the meeting back over to Maggie Glavin.

10 MS. GLAVIN: Thank you, Dannie.

11 Since we are ahead of ourselves I'd like to keep us
12 going so I've asked Don Anderson if he would forego the break
13 and go ahead and make his presentation, and he has agreed to
14 do so.

15 So with that, Don Anderson from Research Triangle
16 Institute will present the data on the traditional young
17 chicken inspection system that has been gathered in plants
18 over the past months.

19 DR. ANDERSON: Thank you very much.

20 My name is Don Anderson and I'm from Research

1 Triangle Institute. I'm very happy to be here today
2 presenting the results from the baseline data collection at
3 16 young chicken plants as part of the models project.

4 I'd like to acknowledge that there are too many
5 people that have been involved in the project to acknowledge
6 all of them, but I would certainly like to acknowledge
7 several people that I brought up with me from RTI today --
8 Sheri Cates, Shawn Karns and Becky Durocher who are sitting
9 at the table over here, and Pat Brown, Dr. Pat Brown is also
10 here from BioVet.

11 There are a couple of other companies that worked
12 with us on the baseline data collection phase of the project.

13 Silliker Laboratories did our microbiological testing and
14 Harris Interactive did our data entry basically, our
15 electronic data entry. So I would like to acknowledge them.

16 I'm going to limit my presentation today to the
17 organoleptic and microbial data collection processes and
18 results in the 16 young chicken plants, so we'll just be
19 talking about that market class and we'll just be talking
20 about how we collected the data and what the results of our

1 findings were.

2 I'll start out talking about the organoleptic data
3 collection procedures and the results before I turn to the
4 microbial procedures and the results from that.

5 I would again ask that people defer questions until
6 the end of my presentation, and then Pat Brown and Sheri
7 Cates and I will sit at the table and answer questions as
8 best we can.

9 These are the names and the establishment numbers
10 and the locations of the 16 young chicken plants that we
11 completed baseline data collection in.

12 The project that we're talking about, that I'm
13 about to talk about, the data that we collected, was a fairly
14 significant and large project. The data collection
15 represents over 400 days of organoleptic data collection
16 during which we looked at over 32,000 passed and condemned
17 carcasses. We collected microbiological data eight hours a
18 day for 480 days. And that constituted a total of 4800
19 samples, actually closer to 5,000 samples when we were all
20 done.

1 Becky Durocher received somewhere around 17,000
2 pages of organoleptic data every day on our toll-free fax
3 machine as all these data come back into RTI for quality
4 checks and data entry.

5 Mike Grasso and Lenny Lang and I and others
6 conducted over 16 site visits. Some of these plants had
7 numerous site visits, or more than one site visit. So there
8 was a lot of going out to the plants and talking to them
9 about the project to get them started.

10 I was at, I believe all 16 of these plants. There
11 have been a couple of more recent plants that I haven't been
12 to, but I believe I was personally at all 16 of these. Pat
13 Brown from BioVet was at a number of these and so were some
14 of my other staff.

15 We've also received somewhere around 700 toll-free
16 telephone calls from plant management, from the tech center,
17 from other places where people have had questions or had
18 comments that they needed to give us, so we fielded all those
19 telephone calls that came in every day.

20 I would certainly like to thank the plant

1 management for all their cooperation and support during the
2 baseline data collection phase from the 16 plants. I would
3 like to thank the IICs for their participation and support.
4 And in fact to the food inspectors themselves at all 16 of
5 these plants who were supportive of the project as well.
6 It's been a big effort, but I think it's gone fairly
7 smoothly.

8 This is an overview of the organoleptic data
9 collection procedure. Essentially you might think of it as
10 being comprised of three basic parts. We start off the
11 project by conducting what we call an in-plant correlation.

12 The organoleptic data is collected by RTI and
13 BioVet veterinarians. We actually had nine veterinarians who
14 participated in this project in data collection. We did have
15 three veterinarians who have worked at only one plant, but we
16 had five of our veterinarians, that is five of the nine
17 veterinarians collected data at two plants. We had one
18 veterinarian data collector who collected data at three of
19 these plants. Several of these data collectors are
20 continuing to work with us during the models phase of the

1 project.

2 The correlation essentially consisted of our
3 veterinarian going to the plant, a tech center veterinarian
4 also came to the plant to participate in the correlation and
5 two weeks of data collection; a correlator came into the
6 plant to make sure that everybody -- our vet, the tech center
7 vet, and the plants that were participating and observing --
8 knew what conditions were being used to cull all the defects
9 for the purposes of our project. And the plant personnel and
10 others were also invited to participate and observe the
11 correlation process.

12 The correlation essentially consisted of typically
13 about one day of, if you will, classroom type activities to
14 go over the criteria for culling defects and so forth. It
15 was usually followed by one or maybe two days of practice
16 data collection which was not so much, at least after some
17 experience, it was not so much to practice culling defects on
18 carcasses as much as it was to get used to the plant
19 logistics that are different in each plant.

20 Then once the correlation was complete, our data

1 collector collected 25 consecutive working days of data. At
2 multi-shift plants we collect data from both shifts -- night
3 shift and day shift. And whenever feasible, and I think it
4 always was in all 16 of these plants, when there were
5 multiple lines which there were for all of these I'm sure, we
6 collected data from all lines. So we collected data from all
7 shifts and all lines as applicable and feasible.

8 There were three activities. There was the
9 antemortem activity which was basically an interview process
10 that we conducted once a day for five weeks. The heart of
11 the project, if you will, was the examination of 80 passed
12 carcasses per day for five weeks for a total of 2,000
13 carcasses, and I'll go into more about that in a minute. And
14 those carcasses were observed after the final wash but before
15 the chiller. We also conducted condemned carcass data
16 collection, that is again each hour approximately or eight
17 times a day for five weeks we would examine birds that were
18 in the condemned barrel.

19 So over the course of the project in each
20 plant we looked at 2,000 passed carcasses and 2,000 condemned

1 carcasses.

2 I'm not going to tell the names of all of our
3 veterinarians, and if there are questions about that
4 afterwards we can answer some of those questions, but all of
5 our data collectors were veterinarians and as I said, a
6 number of them, most of them, collected data from more than
7 one plant and continue to work with us into the models phase.

8 But to give you a little more concrete idea of what
9 they're doing, I've got a couple of photos that might help.

10 This is a photograph of one of our veterinary data
11 collectors, Dr. Deidra Watson. She's actually in this
12 photograph collecting data at Townsend's in Batesville and
13 she's doing it in the models phase of the project. So we
14 didn't frankly have the foresight in the baseline phase to
15 take pictures of all of our data collectors, and we thought
16 it would be nice to do that. So FSIS I guess during a plant
17 tour themselves took a couple of photos of Dr. Watson doing
18 data collection, as I say, at Townsend's.

19 Here she is examining one of the birds at an
20 examination table.

1 Each hour after our veterinarian looks at the ten
2 bird sample they of course have to make sure that all the
3 information they've recorded on their forms is accurate and
4 complete, so at the end of each interval of data collection
5 they complete their forms. Those forms are sent back to RTI
6 at the end of the day.

7 This is a photograph again of Dr. Watson doing her
8 paperwork at Townsend's.

9 I'd like to get into some of the results. First
10 the antemortem results. The antemortem results from the 16
11 plants are actually based on 380 days of data collection.
12 The sample days for antemortem are somewhat less than the
13 total possible days because there were not always, a
14 veterinary medical officer was not always available for the
15 antemortem interview.

16 We found during our data collection at these 16
17 plants, we found that at the time of the interview which
18 usually occurred early to mid morning, that at the time of
19 the interview antemortem activities had been performed by the
20 VMO or the IIC approximately 68 percent of the time.

1 The mean number of times that antemortem activities
2 were conducted by the IIC each day was 1.3, so as you see,
3 that implies that at most plants antemortem maybe takes place
4 once a day, but at some plants, at least at the time of our
5 interview, antemortem inspection may have occurred twice so
6 the average is a little higher than one.

7 We found that again, during the 480 days of data
8 collection, that in two lots out of the total a lot of
9 poultry arriving was found unsuitable for food. That
10 represents less than one percent of the lots that were
11 interviewed on.

12 Records were made on antemortem activities about 27
13 percent of the time.

14 This simple pie chart shows the organoleptic
15 results again for passed samples. It just breaks essentially
16 conditions into three categories. We show food safety
17 conditions attributable or caused by disease, food safety
18 conditions that are essentially zero tolerance failures, and
19 the green area represents no food safety conditions.

20 Notice first that again, we in some sense by

1 design, we would have looked, over 16 plants we would have
2 looked at 32,000 carcasses. In the end we actually examined
3 approximately 32,075 so there were a few extra carcasses that
4 we observed.

5 And in one-tenth of one percent of those 32,000
6 carcasses, which is a total of 43 out of 32,000, our data
7 collector observed after the final wash that there was
8 evidence of septicemia, toxemia, or airsacculitis with
9 systemic change so that it started to appear septic.

10 So one-tenth of one percent of the carcasses that
11 we looked at did exhibit disease conditions that are
12 considered food safety problems.

13 One percent of the carcasses that we examined,
14 approximately 300, in fact precisely 306 of the 32,000
15 carcasses we looked at, had some evidence of fecal
16 contamination. There is a zero tolerance for fecal. We
17 found just one percent in the 32,000 carcasses we examined.

18 As you see, the vast majority of the carcasses,
19 approximately 99 percent of them, exhibited no food safety
20 conditions whatsoever. Now some of these carcasses that

1 you'll see when we go to the next slide had OCP conditions,
2 that is other consumer protection defects, but not food
3 safety defects.

4 These next two slides, if you'll bear with me, and
5 I see many of you flipping through your handouts, the next
6 two pages describe the other consumer protection conditions
7 that we examined for in passed carcasses, extraneous
8 material, lung, oil glands, et cetera. I've got actually two
9 pages of them here. And it not only names the condition,
10 names the other consumer protection issue, but it also has a
11 brief description of what our data collector was looking for
12 and what they were in effect calling a defect or a
13 discrepancy.

14 Let me give you a couple of examples that will
15 highlight an important difference here, and that is the
16 difference between how RTI data collectors were calling
17 defects and how Finished Product Standards work.

18 Feathers is one example. The Finished Product
19 Standard for feathers is essentially not a zero tolerance
20 kind of a condition. That is a carcass under Finished

1 Product Standards, a carcass that has five or more feathers
2 less than or equal to an inch long, that constitutes a
3 defect; or a carcass that has one or more feathers of greater
4 than an inch, that constitutes a defect in Finished Product
5 Standards.

6 Our data collectors were taught and correlated to
7 call one or more feathers of any size a defect, and that will
8 show up in some of the data we look at.

9 Another example which is similar but maybe
10 illustrative here is hair. Our data collectors, our
11 veterinarians were told to call a defect or to score a defect
12 as having hair if they observed one hair or more of any size
13 on the carcass. Whereas Finished Product Standards are
14 different. In Finished Product Standards, a carcass is said
15 to have a single defect if it has 26 or more hairs one-
16 quarter inch or longer.

17 So those are important differences, and there are
18 others that I won't go into between Finished Product
19 Standards and the way we called data that showed up in some
20 of our results.

1 These are the results, the other consumer
2 protection results from the 32,075 carcasses that we looked
3 at in the 16 young chicken plants.

4 Again, let me highlight a couple of numbers here.
5 Again, feathers is an example where the percentage of
6 carcasses that scored, if you will, defects in our scoring
7 system was fairly high. Forty-eight percent, that is almost
8 half of the carcasses that we examined after the final wash
9 had feathers. But again, you need to remember that we were
10 calling all carcasses that had any amount of feathers
11 whatsoever.

12 Likewise on hair, you see that about 40 percent of
13 the carcasses that we examined were scored as having some
14 hair on the carcass. But again, we were calling any number
15 of hair of any length a defect in our scoring system.

16 So you can examine the results in those two tables
17 and if you have questions about them later, we'll try to
18 answer those.

19 Before I turn to the microbial results I want to
20 briefly mention the results that we found from our condemned

1 barrel sampling.

2 Once again, the design of the project was for our
3 data collector to observe ten carcasses from condemned
4 barrels every hour, eight hours a day, for the duration of
5 the project which was five weeks.

6 During the course of the project we examined a
7 total of 33,436 carcasses, so we actually looked at quite a
8 few extra carcasses. I think what probably happened here, I
9 think the reason we probably looked at more than 32,000 is
10 sometimes our data collector would look in the condemned
11 barrel and see there were maybe 10 or 12 or 15 carcasses so
12 they would just go through the barrel and examine all the
13 carcasses. So we picked up quite a few extras in that
14 process.

15 Again, we've got the results of this classified
16 three ways. Approximately half of the 33,000 carcasses that
17 we looked at had generalized conditions that presumably is
18 what led to those carcasses being in the condemned barrel in
19 the first place.

20 Approximately 40 percent of those carcasses had

1 what we call localized conditions. So they weren't
2 generalized but they were localized defects. And
3 approximately 12 percent of the birds in the condemned barrel
4 didn't exhibit any abnormal conditions at all. They may have
5 been think or scrawny or something, I suppose, but they
6 didn't have other consumer protection defects or disease
7 defects that we were trained and correlated to look for.

8 I would like to thank again the management, all 16
9 plants, for setting up and enforcing to the best of their
10 ability a two-barrel system during the course of this
11 project. We wanted to make sure that all of the birds that
12 we looked at in our condemned sampling were USDA condemnation
13 decisions.

14 At a number of plants they don't typically use a
15 two barrel system. That is they'll have a single barrel
16 system where all the birds go into barrels, and you can think
17 of it as kind of a combined reject and condemnation barrel.

18 What we tried to get in place and enforce, and I
19 think we did pretty successfully is a two barrel system so
20 only birds that were USDA condemnation decisions went into

1 the condemned barrel.

2 I would also mention it doesn't shown this chart,
3 but overall during the course of this project in the 16
4 plants that we worked in, we estimate that the condemnation
5 rate was approximately 0.7 percent. That is we estimate that
6 about three-quarters of one percent of the birds that were
7 being slaughtered went into the condemned barrel.

8 I'd like to turn now to the microbial data
9 collection. This will go a little more quickly, then we'll
10 open for questions.

11 Again, this is a slide that shows in overview
12 fashion the work we did and how we did it in these 16 young
13 chicken plants.

14 For doing our microbial data collection we
15 essentially followed FSIS sampling protocols. We used USDA
16 supplied materials to do our sampling. USDA supplied bags,
17 plastic bags for doing the chicken rinses, the rinse
18 solutions themselves, and basically the materials that we
19 needed to use. And I wanted to thank Robin Johnson who was
20 our contact at the USDA laboratory in Athens for all of her

1 material support.

2 Essentially the way that the data collection worked
3 is each day that we were doing baseline data collection over
4 a period of six weeks in each plant, we would sample ten
5 carcasses a day five days a week for six weeks. So we did
6 sampling on 600 carcasses at each plant.

7 Essentially we were examining or we were testing
8 birds for two different types of bacteria. For generic E-
9 Coli and for salmonella.

10 We did all of our sample collecting after the
11 chiller process which is as required by pathogen reduction
12 testing, so all of our testing was post chill. And again at
13 each plant we did a total of 600 analyses, but 300 of these
14 analyses were for salmonella and the other 300 hundred were
15 for generic E-Coli.

16 Once again, in these 16 plants where data, where
17 processing occurs on two shifts as it did at most of these
18 plants, we collected data when possible from both shifts.

19 Now we didn't want to collect microbial data and
20 let it sit for too many hours even under refrigeration before

1 sending it to Silliker Laboratories for testing, so we were
2 sometimes confined in our ability to work across shifts by
3 Federal Express or other types of overnight pickup. But I
4 think in most of these plants we were pretty successful at
5 collecting a fairly even balance of birds from both shifts in
6 fact, and again, when there were multiple lines or I should
7 really say when there were multiple chiller systems in a
8 plant, we randomly selected birds from all two, three or four
9 chillers as appropriate.

10 After the birds are rinsed, and I'll show a picture
11 of that in a moment. After the birds are rinsed we send
12 samples of our solution to Silliker Laboratories where they
13 test the samples that they receive for generic E-Coli or for
14 salmonella as we direct them.

15 When Silliker Laboratories received samples that we
16 shipped them each day, they checked the condition and the
17 temperature of the incoming samples. They were under strict
18 orders by us to call us and to discard any samples they
19 received that were off condition. This is something that
20 occurred not infrequently. In fact we had to discard, or

1 Silliker at our request, discarded somewhere around 420
2 samples during the course of the project. If they received
3 the samples and they were not the proper temperature or the
4 specimen cup maybe had leaked some and there wasn't enough
5 solution in there to test, they would discard it, they would
6 call us the next day, and we would have to schedule
7 additional data collection to make sure that we got the
8 proper number of samples.

9 In the months of July and August we lost a number
10 of days of samples, but we addressed that by using additional
11 quantities of blue ice and basically procedures like that to
12 limit that as much as possible.

13 We occasionally would also lose some Friday
14 sampling. We typically sampled Monday through Friday at a
15 plant. Friday's samples were marked to arrive at Silliker
16 Laboratories on Saturday, to be tested on Saturday.
17 Typically they would, but sometimes they didn't. Sometimes
18 they wouldn't arrive until Monday.

19 If a Friday sample didn't arrive until Monday they
20 discarded it and we had to collect more samples.

1 So we think we maintained pretty well the integrity
2 of the samples.

3 I want to show again two photographs of microbial
4 data collection at a plant.

5 I would like to thank Laurie Tinker and the
6 management at Goldkist for this particular photo. Again,
7 this is not a photo that actually occurred or this is not a
8 photo that actually took place during baseline data
9 collection, but during the models phase at Goldkist. No more
10 than about a week ago. We thought it would be nice to have a
11 couple of photos of our microbial data collector in action so
12 you could essentially see what they do.

13 So this photograph is of Tawanda Maples who is one
14 of our repeat microbial technicians doing sampling, as I say
15 at Goldkist. Tawanda Maples also did actual baseline data
16 collection in two of the 16 plants. She collected microbial
17 data at Claxton Poultry and she also collected data at Kagles
18 in Pine Mountain, Georgia. This is a photograph that looks
19 like of Tawanda with a young chicken in a plastic bag and
20 she's pouring rinse into it to prepare to shake it for the

1 test.

2 This appears to be a photograph of her it looks
3 like pouring the solution into the specimen cup. I know
4 these photographs are not great, but hopefully they give you
5 some idea of what it looks like and how it works.

6 The next two and last two slides I have are the
7 microbial results from the 16 young chicken plants. First,
8 the salmonella results. If we had done exactly ten samples a
9 day, five days a week for six weeks, we would have done a
10 total of 4800 analyses. We actually ended up with 4872
11 analyses. Again, some days as time allowed we would do an
12 extra sample or two to make sure that we got the total sample
13 size of 4800 or really what we were targeting is 300 per
14 plant.

15 So you see that we actually collected a few extra
16 samples.

17 The arithmetic mean, that is the simple mean
18 positive salmonella rate from these 16 plants is 6.1 percent.
19 That's well below the performance standard for salmonella
20 for young chickens.

1 The arithmetic mean was 6.1 percent. The median
2 was actually closer to three percent. That is of the 16
3 plants, eight plants had salmonella rates that were below
4 about three percent; and eight plants had salmonella rates
5 that were above three percent.

6 We had at least one plant, maybe just one plant,
7 Shawn could clarify this later maybe, that we actually had a
8 zero rate. And we had one plant that actually had a
9 salmonella rate that was up close to the performance
10 standard. But you see that the salmonella rate overall,
11 whether you look at the median or the mean, is well below the
12 performance standard for young chickens that has been set by
13 the agency.

14 These are the E-Coli results from 4884 carcasses
15 that we sampled. Again, the generic E-Coli is measured in
16 colony forming units per milliliter, that's CFU per
17 milliliter and the detection limit for the test that's used
18 which is consistent with FSIS requirements is 10 CFUs per
19 milliliter, so that's the detection limit.

20 And one thing you will see is that the median, that

1 is the middle kind of result for these carcasses was 20 CFUs
2 per milliliter which is just a little above the detection
3 limit.

4 One thing that might help understand these numbers
5 or put them into some perspective, is to remind everybody
6 that there are several ranges that USDA talks about in its
7 final rule for young chickens for giving plants guidance on
8 E-Coli results.

9 E-Coli, generic E-Coli counts of under 100 CFUs per
10 milliliter are considered acceptable. Counts between 100 and
11 1,000 CFUs are considered marginal. And counts of over 1,000
12 CFUs are considered unacceptable.

13 One thing you'll notice is that the median result
14 is 20. That is half of the samples we collected were fewer
15 than 20, and in fact what we call the upper quartile or the
16 75th percentile of this distribution is 90. What that means
17 is that at least, you can see from this slide that since the
18 75th percentile is 90 CFUs and since the top of the range for
19 an acceptable level of E-Coli is 100, you see that at least
20 three-quarters, and in fact 78 percent of the samples that we

1 took were in the acceptable range, and 18 percent of the
2 samples that we took or looked at were in the marginal range.

3 Only four percent of the samples that we tested were in the
4 unacceptable range.

5 I can't speak with authority about the E-Coli
6 ranges, but essentially there's a moving window calculation,
7 and this was not part of the project, it's not something I
8 understand very well. But it's not unusual, in fact it's
9 expected to have some marginal results I think in these
10 testing windows. So again, this shows the distribution of E-
11 Coli in the samples we collected was I think actually fairly
12 impressive.

13 If there are any questions, I'm going to ask Sheri
14 and Pat to come to the front and we'll try to answer them.

15 MS. JOHNSON: Alice Johnson, the National Turkey
16 Federation. I have two questions. One is more
17 clarification.

18 I do want to compliment the agency on the way they
19 have collected baseline, looking at organoleptic as well as
20 micro. I think this is the third party, I think this is a

1 great way to go about the project.

2 I do think that we maybe need some clarification on
3 localized conditions and the way they're considered under the
4 current inspection system and as an explanation for why the
5 lesions are on the sheet.

6 It's my understanding that airsacculitis, just in
7 the nature of the disease and the name of the disease itself,
8 is limited to the air sac. And the agency has called that a
9 localized condition. And under current inspection procedures
10 plants had the ability to remove the affected tissue.

11 It's when, a food safety is when the carcass is
12 showing systemic changes and is showing a different type of
13 carcass, but may or may not be related to the air sac. But
14 airsac in itself is considered localized.

15 And I'm probably not asking that very well, Bill
16 James, but the localized condition is not considered food
17 safety. Other consumer protection. Is that correct?

18 DR. JAMES: We do not considered localized
19 airsacculitis, airsacculitis which is confined to the air
20 sacs, is not classified as a food safety hazard. That is

1 considered a localized lesion which can be removed and the
2 unaffected portions of the carcass may be passed. That is
3 correct.

4 If airsacculitis has resulted in a carcass which
5 exhibits septicemia, the carcass is condemned.

6 MS. JOHNSON: For the septicemia.

7 DR. JAMES: Correct.

8 MS. JOHNSON: That's where you're getting the food
9 safety concerns.

10 DR. JAMES: Yeah.

11 I'm sorry, Karen just corrected me. There is a,
12 she reminded me that there is a category on the current
13 inspection condemnation form for airsacculitis condemnation.
14 It is a specific cause of a septicemia and on that form it
15 is identified as an airsacculitis.

16 MS. GLAVIN: But Bill, is it not correct that under
17 the current system we don't make a distinction between food
18 safety and other consumer protection. That distinction is
19 something that is growing out of the experimentation with the
20 new system.

1 DR. JAMES: That is correct, Maggie.

2 MS. JOHNSON: And Bill, also, and maybe Dr.
3 Henderson as well, on the localized conditions, generally
4 under the current system localized conditions, if a plant
5 chooses to do so there are special procedures in which the
6 plant can remove the affected tissue in most, I won't say
7 all, I'll say most of the localized conditions.

8 DR. HENDERSON: Alice, you're correct.

9 DR. LaFONTAINE: I'd like to go back to the very
10 last slide, is that possible? It's on the generic E-Coli.

11 (Pause)

12 DR. LaFONTAINE: Maybe I'm the only one but I have
13 a hard time understanding this slide.

14 Tell me what maximum means in 45,000.

15 DR. ANDERSON: I'll be glad to. That means that of
16 the 4884 samples that we did, the sample that had the highest
17 generic E-Coli count had a count of 45,000 CFUs per
18 milliliter. That's what that means. And I apologize if it
19 is --

20 DR. LaFONTAINE: So that 45,000 is colony forming

1 units.

2 DR. ANDERSON: It is.

3 DR. LaFONTAINE: Not 45,000 birds.

4 DR. ANDERSON: That's right.

5 DR. LaFONTAINE: Well, it couldn't be 45 because --
6 Okay. I understand.

7 VOICE: How many birds --

8 DR. ANDERSON: For the maximum it would be one.
9 That is the highest single observation.

10 For the minimum, you'll notice that the
11 abbreviation ND which is non-detectable shows up for the
12 minimum, the 10th percentile and even the lower quartile.

13 What that means is that 25 percent of the samples,
14 approximately 1200 of the samples, had non-detectable levels
15 of generic E-Coli. And in fact the median means that half of
16 the samples, approximately half of the samples had 20 CFUs
17 per milliliter or less of generic E-Coli.

18 DR. LaFONTAINE: In the reverse, looking at the
19 90th percentile, 10 percent or less were at the 280 colony
20 forming units, is that correct?

1 DR. ANDERSON: 280 or higher. Ten percent had 280
2 or higher. That is correct.

3 I'm just trying with this to give some idea what
4 the distribution was rather than just the average.

5 MR. BYRD: Ken Byrd of Pilgrim's Pride.

6 You said that on the zero tolerance birds, the
7 birds you found with fecal contamination post wash, you had
8 306. I was wondering if you had any data to compare the
9 location of the defect inside versus outside the bird?

10 DR. ANDERSON: No, we did not record the location
11 of the contamination on the carcass, whether it was inside or
12 out.

13 MR. BYRD: Did these plants have on-line
14 reprocessing? Or were all the birds to be, they were
15 contaminated internally to be removed and sent to a wash-out
16 station?

17 DR. ANDERSON: I'm not sure I understand your
18 question.

19 MR. BYRD: The on-line reprocessing with an anti-
20 microbial treatment. Did any of these plants

1 have --

2 DR. ANDERSON: Some of these plants do have TSP or
3 other anti-microbial treatments. When we did our sampling, I
4 call it post wash. We did our sampling -- excuse me. The
5 microbial sampling is post chill. But yes, there are some of
6 these plants that have TSP or another anti-microbial
7 treatment, if that answers your question.

8 MR. BYRD: Thank you.

9 MS. NESTOR: Felicia Nestor, Government
10 Accountability Project.

11 The 2,000 samples that you took, do you know
12 approximately what percentage of the total production that
13 was in the time that you took those samples?

14 DR. ANDERSON: No, I don't. We didn't calculate
15 that. That would be calculable, but the design of the
16 project was for us to sample 2,000 carcasses by looking at 80
17 per day over the duration of the project. That sampling rate
18 was the same in a plant with two lines and one shift, or with
19 four lines and two shifts. It was the same number of samples
20 that were pulled, 2,000 carcasses.

1 MS. NESTOR: But you could go back and determine
2 that?

3 DR. ANDERSON: I'm a little reluctant to say that I
4 could because we did not, when we set up our data collection
5 procedures we did not set it up with an eye towards ever
6 making that calculation. But in general we know the line
7 speeds and the lines.

8 MS. NESTOR: So what you're saying is that RTI did
9 not determine to take 2,000 samples.

10 DR. ANDERSON: That's true. We didn't.

11 MS. NESTOR: On the antemortem, when you determined
12 that antemortem had been done a certain percentage of the
13 time, the method that you used to determine that was to ask
14 the person that was supposed to have done the antemortem?

15 DR. ANDERSON: It's strictly an interview process.
16 It is.

17 MS. NESTOR: The issue about the condemned barrels,
18 can you clarify how many of the plants had strictly an FSIS
19 condemned barrel so that none of the condemned birds were
20 being put in by the company?

1 DR. ANDERSON: Maybe Pat or somebody can clarify
2 better, but I believe that most if not all of these 16 plants
3 we had a condemned barrel system in place.

4 Now we, during our site visits when we met with the
5 plant and we talked to the food inspectors and the ICCs, we
6 told them that we would be or the plant would be setting up a
7 separate condemned barrel system, separate from a reject
8 barrel system. And we asked the food inspectors to notify
9 the ICC if they observed plant employees inadvertently
10 throwing birds into the condemned barrel, and every now and
11 then we would get a report of that and then we would call and
12 we would get that corrected.

13 But I think at the majority if not all of the
14 plants there was a separate condemned barrel system in place.

15 MS. NESTOR: Okay.

16 MR. BILLY: Don, just one. I assume what we ought
17 to keep in mind in terms of the data system that you put in
18 place and the data that you've collected is it's designed for
19 the purpose of making a comparison between the traditional
20 system and the pilot system. so in a sense, it's reasonable

1 to assume that the production volumes will relatively be the
2 same during the two data collection periods.

3 What this is about is being able to make the before
4 and after comparison that I mentioned earlier.

5 DR. ANDERSON: That is true, and kind of in a more
6 backward looking sense in fact, when we worked with the
7 agency to schedule our data collection, we made a point of
8 selecting a five or six week period for data collection when
9 they believed, that is when plant management believed they
10 would be operating a fairly normal schedule and a normal rate
11 of production.

12 We avoided, in a few instances we rescheduled or
13 delayed data collection because maybe they were going to do
14 an equipment changeout during a period of time that we
15 thought we might need data collection. We didn't want to
16 collect data when there was anything like that going on that
17 might disrupt production.

18 MS. NESTOR: Can I ask a question about that?

19 DR. ANDERSON: Sure.

20 MS. NESTOR: Under the traditional system there are

1 maximum line speeds, and if I'm not mistaken, under HIMP
2 there is no limit on the line speeds, isn't that the case?
3 So how could the production volume be the same if the plant
4 can increase its line speed?

5 MR. BILLY: I think the point is what Don just
6 made, that the effort was to try to collect a set of data
7 under the traditional system that would be typical of a
8 normal operation, not involving periods where there was
9 unusual situations in the plant or whatever. As sort of the
10 foundation or the basis to compare to the pilot system which
11 may involve different line speeds, higher or lower; it may
12 involve moving equipment, it may involve other changes, but
13 it's a comparison between the traditional inspection system
14 and the results of that to the pilot approach.

15 MS. NESTOR: You were just saying that it would be
16 typical of the traditional and then typical of the new.

17 MR. BILLY: It will be the new, whatever it is, and
18 it may vary somewhat among the plants.

19 MS. NESTOR: I have one more question if I could,
20 and we probably will have to discuss this later but I just

1 wanted to ask the question now in case we should discuss part
2 of the question now.

3 In using the baseline data to devise performance
4 standards, it sounded like what you were saying is that when
5 you analyze defects, it's different from the say FSIS
6 analyzes a defect, for instance for feathers or something
7 like that. I'm wondering if FSIS when it developed its
8 performance standards, whether that was taken into account.

9 MS. SCHOR: Why don't we hold that because I think
10 this afternoon the data, or the information presentations
11 will help to put a context around that question. But please
12 do ask it again.

13 MS. DeWAAL: I have two questions.

14 The first is for the condemned carcasses, you
15 collected them eight times a day, but for the pass carcasses,
16 you collected ten carcasses eight times a day whereas for the
17 pass carcasses you just collected a batch of 80. How did you
18 do that --

19 DR. ANDERSON: I'm sorry. I did not mean to give
20 that impression.

1 We collected our passed samples in essentially the
2 same way as our condemned samples. That is eight times a
3 shift we would randomly select ten birds and examine them.

4 What we typically did at a two-shift plant is we
5 would work a week on the night shift followed by a week on
6 the day shift, back to the night shift. So we alternated
7 shift work by week. But it was eight throughout, 80 birds
8 selected throughout an eight hour shift.

9 MS. DeWAAL: Okay.

10 My second question has to do with the data you
11 don't have.

12 DR. ANDERSON: I won't be able to answer questions
13 about that.

14 (Laughter)

15 MS. DeWAAL: I know, but I need to get this on the
16 record.

17 Did you run any tests on campylobacter?

18 DR. ANDERSON: No.

19 MS. DeWAAL: Why didn't you run any tests on
20 campylobacter seeing that you were running all the tests on

1 salmonella and E-Coli?

2 DR. ANDERSON: The good thing about being a
3 contractor is I can say we weren't asked to. That's the
4 simple answer. I would let somebody else answer that
5 question.

6 MS. DeWAAL: Do you have any of the, did you
7 discard all the solutions?

8 DR. ANDERSON: Yes.

9 MS. DeWAAL: So we have absolutely no data from
10 this dataset telling us what the baseline numbers for
11 campylobacter were going into this project.

12 DR. ANDERSON: That's correct.

13 MS. DeWAAL: And are you aware that campylobacter
14 can be present on as many as 90 percent of chickens coming
15 out of the processing plant?

16 DR. ANDERSON: I read the papers.

17 (Laughter)

18 MS. DeWAAL: And there's just no data that RTI has
19 from this project dealing with the campylobacter dates --

20 DR. ANDERSON: There is no campylobacter, and I

1 don't mean to, sorry about my attitude.

2 We did no campylobacter testing. The salmonella
3 testing that we did was a simple positive/negative salmonella
4 test. We're not reporting the types of the salmonella. I'm
5 not a microbiologist. I understand that some types of
6 salmonella are pathogenic and some aren't, that's my
7 understanding as a lay person. But we did a simple
8 prevalence test that looks for the presence of one or many
9 strains or types of salmonella.

10 Again, the generic E-Coli was a simple generic
11 test.

12 MS. DeWAAL: Thank you.

13 MR. BILLY: I'd like to just mention that during
14 the same time period the agency has conducted a nationwide
15 baseline survey for campylobacter that includes both
16 determining the presence and the quantification of the
17 numbers. So we will be making available in the near future
18 the report of that baseline study. There will be data and it
19 is based on the traditional system. So the type of
20 information that Caroline was referring to will be available

1 but through a separate means.

2 One other point is that we're provided a certain
3 amount of funds to do our work, and we have to manage this
4 project in a way that is consistent with what funds area
5 available to us. So we've been very careful to try to do
6 that. I think these data are very significant in the context
7 of the current regulatory requirements. And we have a wealth
8 of data from our own salmonella sampling to make comparisons
9 and as well as the data that the plants are collecting on a
10 daily basis for generic E-Coli. So there's a lot of data
11 that will be available to make comparisons of all types
12 related to those two bacteria areas or categories.

13 MS. DeWAAL: May I simply note, though, that your
14 baseline data collection that provided the basis for the
15 salmonella standards in the HACCP pathogen reduction
16 regulation, also that data set also contains campylobacter
17 data.

18 MR. BILLY: Yes.

19 MS. DeWAAL: So you have already prevalent data on
20 campylobacter in chickens, turkeys, beef, swine. So we

1 already have the data, a large body of data dealing with
2 campylobacter which could have been used as a tool to compare
3 this dataset.

4 MR. BILLY: One of the important things we will be
5 able to do is to in fact make a comparison between our two
6 baseline datasets as it relates to campylobacter. So that
7 type of information will be coming forward in the next few
8 months.

9 MS. DeWAAL: But what we can't do with the dataset
10 that RTI has provided now through this study is to make
11 comparisons on how the inspection models project will impact
12 one of the largest pathogenic concerns on these products
13 which is campylobacter on chickens. We will not have the
14 data to tell us how changes in the inspection program will
15 impact campylobacter contamination rates.

16 MR. BILLY: Perhaps you've forgotten, but this
17 subject was discussed at length in the meat and poultry
18 advisory committee --

19 MS. DeWAAL: I remember.

20 MR. BILLY: -- and the agency has made a commitment

1 to collect that type of data for plants that are under the
2 HIMP type system once we get that well enough established.
3 So there will be data collected that will enable us to
4 compare the results of the traditional system to the new
5 system.

6 But obviously we're just now swinging into this
7 pilot phase and it's a little premature to do that.

8 I think it was important that we get additional
9 baseline data that's not based on 16 plants, but based on the
10 plants nationwide, geographically distributed, representative
11 of the production the marketplace, so we have done that.

12 MR. VOGEL: Lyle Vogel at AVMA.

13 I'd like to go to the chart on the organoleptic
14 results for condemned samples. You made a comment that 12
15 percent of the condition -- I don't know that you need to
16 pull it up, but the chart shows that 12 percent of the
17 samples showed no abnormal conditions.

18 A point of clarification, when you pulled those
19 samples were the viscera attached or were they not?

20 DR. ANDERSON: I think that depends on, we looked

1 at the carcasses as they were in the barrel. Pat, maybe you
2 can give us some idea from your time that you spent in the
3 plant.

4 MR. VOGEL: I guess my basic question is, is it
5 possible that those 12 percent or a portion of that could
6 have been condemned based on lesions in the viscera, but yet
7 the viscera was not there to confirm that?

8 DR. BROWN: I would say yes, that is a possibility.
9 There were some of the birds that didn't have viscera. At
10 what point they were put in there, I don't know, whether the
11 viscera just broke away. But I would say there may be a
12 small percentage of that 12 percent that may have been
13 condemned correctly with respect to what was seen in the
14 viscera. But it would be a very small percentage. Most of
15 them did have the viscera attached. At least when I was in
16 the plant, and I visited all of these plants at least once
17 and possibly twice for some of them.

18 DR. LaFONTAINE: I have a question on the same
19 chart. A question/comment.

20 Something, I believe I'm correct in this and it

1 needs to be brought out somewhat in defense of my colleagues
2 in the USDA.

3 When we get into this chart and it shows
4 essentially 50 percent that were not generalized conditions,
5 38 percent and 12 percent, the inspector on the line has, I
6 would guess, about three seconds per bird to make a decision
7 with a line that's running at 90, 93, with three inspectors
8 on a line.

9 The RCI veterinarian is taking a look at these
10 birds with essentially unlimited time and so all I want to do
11 is, if that's a correct statement, make it for the record
12 that there's a tremendous difference in the amount of time to
13 make that disposition.

14 DR. ANDERSON: I agree with that correctly. Again,
15 though, I think that is exactly right for the record. But I
16 would also like to point out again that, understand the
17 purpose of the project is primarily to establish the current
18 performance of the system so that we can relate it to the
19 model's performance of the plant. We're not here to really
20 judge the current inspection system, but rather to establish

1 what's occurring under the current inspection system using,
2 as you correctly point out, a much closer eye. So that we
3 can compare that to the performance in the models phase.

4 DR. LaFONTAINE: Please understand this is not
5 intended as a criticism of RTI, it's just that looking at
6 this chart without that explanation could really be
7 detrimental to interpreting what FSIS is doing. That's the
8 only reason I bring it up.

9 DR. ANDERSON: I think that's a fair comment. And
10 I would also point out that that same comment, even though
11 you brought it up in the context of the condemned sample, the
12 same comment applies and is appropriate for our examination
13 of the passed sample as well.

14 Our data collectors had a lot of time, not
15 unlimited, but they had minutes rather than seconds or
16 fractions of seconds to observe these defects. That's true.
17 So that's a very good point and I think a necessary
18 clarification.

19 DR. HENDERSON: I would just like to add to Dr.
20 LaFontaine's comment that the industry is allowed to

1 recondition product that does not have systemic conditions if
2 at any time whether there are too many birds with
3 airsacculitis or too many birds with whatever condition that
4 they cannot keep up with their off-line salvage or their on-
5 line trim, the industry often makes a decision that we're not
6 going to recondition this product.

7 We are therefore in a position where that product
8 must be condemned and go into the barrel even though it may
9 have a localized condition.

10 MR. SEWELL: Alvin Sewell with the National Joint
11 Council of Food Inspection Locals.

12 I'd like to discuss a couple of issues here and
13 amplify on some comments that were made earlier.

14 Dr. LaFontaine's comment that the time elapsed
15 under the normal conditions is in all cases less than two
16 seconds per bird for the federal inspector, and this may
17 involve in some cases as many as 12 separate decisions to be
18 made during that time period contingent upon the number of
19 off-line salvage or reprocessing procedures that are present.

20 So when we start talking about inspection error

1 rate, I think it's important to keep that in mind.

2 And Ms. Johnson pointed out the localized condition
3 option of the plants to recondition or remove localized
4 conditions, and on your chart that identifies the 38 percent
5 localized conditions, I wish to address the issue with the
6 RTI data gathering in cases, and there is a signed affidavit
7 on file with the American Federation of Government Employees
8 that identified that during that baseline data collection
9 that the plant would from time to time, actually on an almost
10 daily basis, institute or suspend that off-line salvage and
11 reprocessing procedure, at which time there was no change in
12 the data collection from the condemned carcasses from the
13 barrels that were identified as carcasses condemned by
14 inspection.

15 What I'm saying is that during this data collection
16 the inspector's decisionmaking process may have changed as a
17 result of the plant's option to suspend or apply an off-line
18 reprocessing or salvage procedure, and why wasn't that taken
19 into account in the error rate that was calculated for
20 carcasses that were condemned in error in this 50 percent?

1 DR. ANDERSON: I guess one thing I'd like to point
2 out is I haven't used the term "condemned in error", and
3 you'll notice that I haven't used terms like "properly
4 condemned" or "improperly condemned".

5 For one thing, again, the criteria are not
6 necessarily the same that we're always following. We looked
7 for the presence or absence of generalized or localized
8 conditions. Whether they were properly or improperly
9 condemned is not what we're claiming, and I didn't mean to
10 imply that although I can see that maybe it gives that
11 impression. But we don't mean for it to have that
12 impression. I don't think we're maintaining here that half
13 the carcasses were improperly condemned

14 MR. SEWELL: Having said that, what is the purpose
15 of that data?

16 DR. ANDERSON: The purpose of the data is to, I
17 guess to give us some idea of what the condemnation rate was
18 and some idea of what the conditions of the birds were in the
19 condemned barrels. Again, this was part of the project, and
20 maybe I would defer to somebody on the committee or at the

1 agency to explain better what they can get out of this data.

2 MR. GRASSO: I'd like to comment on that. That was
3 an actual request that was made at the December 1998 public
4 meeting to add that on to the project, and one of the reasons
5 that we wanted to take a look at it was the types of
6 conditions for these young animals, why they are being
7 condemned.

8 The other thing I'd like to make a statement on, it
9 has, is, and always will be the right of the establishment to
10 decide whether the salvage operation is on or off. Before
11 the models, during the models, and after the models. In
12 fact, not all plants have a salvage operation.

13 MR. BILLY: Can you identify yourself please?

14 MR. GRASSO: My name is Mike Grasso.

15 VOICE: Could you identify who made that request in
16 1998 at the December meeting?

17 MR. GRASSO: We can go back and look at the
18 records.

19 MS. DeWAAL: On this point, and I don't remember
20 who made the request and I'll be interested to find out, but

1 the bottom line, and I'm only making this comment because of
2 the discussion we've been having.

3 When I look at the two charts for passed samples
4 and for condemned samples together, it confirms for me that
5 the bias in the current system of government federal
6 inspections is that we condemn maybe more birds than
7 necessary in order to protect consumers. So the bias in the
8 traditional inspection system seems to be towards consumer
9 protection when you look at those two charts together. So I
10 think that that information is valuable to this project.

11 MR. BEHRENS: I would like to raise a concern on
12 the passed samples where it says one percent there have zero
13 tolerance for fecal contamination. That one percent, that's
14 all fecal contamination? Is that what it is? Or is it a
15 combination of --

16 DR. ANDERSON: Yes. That one percent is fecal
17 contamination.

18 MR. BEHRENS: I certainly concur with the zero
19 tolerance for fecal contamination. It's important that this
20 not be misleading that this means that only one percent of

1 carcasses have been fecally contaminated and that only one
2 percent presumably then would have any foodborne pathogens on
3 them.

4 That means that this is an examination for visible
5 fecal contamination and it's done after the carcasses have
6 been washed which will have removed the visibility of the
7 contamination but would not be construed to have removed the
8 pathogenic organisms.

9 I think we need to be very careful in presenting
10 this as to what this means. This means that after that final
11 wash, that's all that was visible. But the invisible is
12 still there, as is evidenced in the fact that you got six
13 percent of carcasses that in the chill still showed
14 salmonella. And we don't know what percent would have shown
15 campylobacter if it had been cultured for that.

16 So I would like to raise this as an issue as we
17 move to human foodborne pathogens as being the significant
18 aspect of food safety, and that we not mislead by having
19 hidden it by washing.

20 MR. BILLY: I understand your point. If you could

1 put that chart back up, Don.

2 One thing that might be helpful is for someone to
3 explain what the significance of the word "passed" is in this
4 slide.

5 DR. ANDERSON: I'm sorry, I didn't understand the
6 very last part of --

7 MR. BILLY: What is the significance of the word
8 "passed" --

9 DR. ANDERSON: Oh, passed.

10 When we say that we examined passed carcasses, what
11 we mean is the carcass has been through the entire slaughter
12 line part of the process up to but not including the chiller
13 system. So this is after the carcasses have passed all of
14 the organoleptic checks that the agency's going to make on
15 them.

16 What that means, if I understand correctly, is that
17 at the point that we're looking at these carcasses, what
18 we're calling passed carcasses, these carcasses are not going
19 to be examined after this point again by USDA inspectors.
20 They're going into the chiller and then they're going into

1 packaging or processing or whatever.

2 Again, we did our bacterial checks, our microbial
3 detection was done after the chiller because that again is
4 required by the PR final rule. But these are passed
5 carcasses. They've essentially, after the final wash, these
6 carcasses have been deemed proper to enter the food chain.
7 They're not completely done with the process because they're
8 going into another very significant treatment process in some
9 sense because they're about to go into the chiller, but these
10 exams were done after the last point in the slaughter line
11 where USDA inspectors examined them.

12 MR. BILLY: Thank you.

13 I wanted to draw that out because it's very
14 relevant to this afternoon's discussion and one of the key
15 features of the HIMP-type system is that it's designed to
16 provide us an opportunity to intensify our food safety
17 checks. This is a particular area of focus. So it creates
18 the opportunity to see improvement in terms of the safety of
19 the products, at least, George, in the context of what's
20 visible and what can be done in that context.

1 So I take your point that there can be pathogens
2 present and the data supports that, even though you only see
3 a certain number of birds that have exhibited visible fecal
4 contamination.

5 I'd like to make a more general point as well,
6 which is that I think it's important that all of us keep in
7 perspective that the poultry and in fact our overall
8 inspection system is recognized and accepted around the
9 world. It was said earlier and it bears repeating that while
10 our system's good, it is not perfect. This whole project is
11 about getting documentation, getting information about the
12 strengths and the weaknesses of the current system for the
13 purpose of identifying opportunities where we can make
14 improvement, and I believe that when we get into the
15 discussion this afternoon and you see what we're attempting
16 to do and then when we're able to share the data with you
17 from the HIMP phase where we're actually in the pilot phase
18 with the models being tested, it will allow us to make those
19 kinds of comparisons very directly and then put us in a
20 position to make judgments about whether we should move

1 forward to formally change our inspection system based on
2 that comparison.

3 Other questions?

4 MS. FINELLI: Mary Finelli with United Poultry
5 Concerns.

6 It seems pretty much common knowledge that cross
7 contamination is greatest in the chiller when these birds are
8 put into a communal bath, so I don't really understand why
9 the, and if they are finding fecal contamination in this
10 organoleptic testing, why isn't this being done after the
11 chiller?

12 MR. BILLY: Because the way the chillers work, it
13 would tend to remove this visible evidence of that
14 contamination as part of that process. So it's an attempt to
15 make that observation before that would occur. So it's after
16 we've completed our on-line inspection effort but before it
17 would go into a chiller-type system.

18 It was a strategy to try to get a good
19 documentation of what's occurring at that point in the
20 process.

1 MS. FINELLI: It seems like if the same number of
2 samples are being taken both through the traditional system
3 and with the new system but it's not the same number of birds
4 going through, I don't really understand how that could be
5 statistically significant. It seems like you would want to
6 do it proportionately the same. And if you're testing a
7 greater sampling with one system than with the other, I don't
8 see how this can be really comparatively analyzed.

9 DR. ANDERSON: I'm not a statistician but I've been
10 doing this a long time and it's basically the power of
11 statistics.

12 The sampling rate, the sample size that you take
13 does not need to be proportional to the population. In
14 election times as we're in now, you wake up in the paper, the
15 Washington Post, and you read who's ahead in the election.
16 They're looking at a statistical estimate, a statistically
17 valid estimate of over 100 million voters and they're usually
18 dealing with sample sizes under 2,000. A statistically valid
19 sample is usually in the range of 1,000 or 100. So a sample
20 size of 2,000 is actually quite large.

1 MS. FINELLI: But if you're comparing two different
2 systems, I don't see how that can work. You're getting a
3 different percentage between the two.

4 DR. ANDERSON: It's irrelevant. It doesn't matter.
5 Again, this is where, I'm not the statistician, and there
6 may be a USDA statistician here, but it's not a very relevant
7 consideration.

8 MR. BILLY: One other point is that you're making
9 an assumption. The assumption you're making is that the
10 production rates will be different. That may not necessarily
11 be the case, or it may not be the case during the testing
12 period. It's up to the plant in terms of what their
13 production rates are going to be based on the type of
14 approach they want to take.

15 So we need to wait and see what the rates are.
16 We'll keep an eye on your concern, we appreciate your raising
17 it, and as we move forward we'll look at the data. But Don's
18 comment is well taken in terms of the power of the numbers
19 and the statistics that will be used.

20 So it's an important point and we'll keep an eye on

1 it.

2 MS. FINELLI: I'd just like to add that I think a
3 way to make it more accurate would just be to do a percentage
4 of the birds being processed rather than a set sampling size,
5 the number of birds being processed.

6 MR. BILLY: I learned a long time ago that I'm not
7 a statistician either, and I'm going to rely on statisticians
8 to help us make sure that we've got a good basis for
9 comparison. So that will be part of our focus.

10 Alice?

11 MS. JOHNSON: Alice Johnson, National Turkey
12 Federation.

13 I'd like to go on record as saying that the chiller
14 water now, there are studies that say that prevalence
15 actually goes down through the chiller. The chiller at one
16 time may have been something totally different from what it
17 is now. Poultry plants currently are looking at a lot of
18 ways to improve the actions of the chiller. In fact in most
19 poultry plants now the chiller actually is an anti-microbial
20 intervention. Not only does it help to start getting the

1 temperature down on the birds, but there are anti-microbial
2 treatments that actually show a reduction after the birds
3 come out of the chiller as before going in the chiller. So I
4 did want to be sure that statement was put on record.

5 Also I want to say that there are plants currently
6 in the models phase that have implemented the models that
7 actually have decreased their line speeds. Line speed is
8 dependent on the number of birds you can handle through your
9 chilling system, the number of birds you can handle through
10 your boning and whatever further processing, so there are
11 plants in this room that have actually decreased line speeds
12 as they have implemented the models.

13 VOICE: Could you specify which plants?

14 (Laughter)

15 MS. JOHNSON: Yes, but not publicly. I'll let the
16 agency do that, if they care to do so.

17 MR. BILLY: No.

18 MS. HAUTER: Wenonah Hauter, Public Citizen.

19 I had a question about the last chart. Doesn't
20 this mean that 50 percent of the birds that were tested had

1 fecal matter but there's just a certain amount of fecal
2 matter that's permitted by USDA? The baseline microbial
3 results for generic E-Coli.

4 (Getting chart)

5 DR. ANDERSON: If you'll ask the question again
6 I'll attempt to answer it.

7 MS. HAUTER: This is a very confusing chart.

8 Fifty percent of the birds that you tested I
9 understand from looking at this had some kind of fecal
10 contamination even if USDA permits some E-Coli to be present.

11 DR. ANDERSON: I certainly don't mean to give that
12 impression whatsoever. These are generic E-Coli tests that
13 are done by rinsing birds after they've been through the
14 chiller. Somebody's already pointed out that the presence of
15 fecal contamination may or may not correlate with E-Coli or
16 salmonella or anything else. So this does not say -- The
17 word fecal contamination isn't on here, I didn't mean to say
18 that it was.

19 This does not indicate anything about the number or
20 the percentage of birds after the chiller that are

1 contaminated with fecal matter.

2 DR. JAMES: Maybe I can clear that up just a little
3 bit. Bill James, FSIS.

4 Chickens are an animal that are processed, and at
5 that point at which they are sampled here they have the skin
6 on them. So it is quite likely that we will find some E-
7 Coli, generic E-Coli, which is a typical environmental
8 bacterial on these chicken carcasses.

9 So the presence of the E-Coli does not necessarily
10 indicate that there was fecal contamination on that carcass,
11 it just means there were E-Coli on that carcass.

12 We use it as a measure of process control, but it
13 is not necessarily correlated with the presence of feces.
14 After all, the animal has worn that skin his whole life.

15 DR. ANDERSON: I apologize for the confusion that
16 apparently this chart has caused several people, and I mean
17 that sincerely. Maybe we can figure out a better way to
18 present that information.

19 MS. NESTOR: Felicia Nestor, Government
20 Accountability Project.

1 I want to make a brief comment and then ask a
2 question.

3 At the last couple of public meetings consumer
4 groups have asked for an independent peer review of the
5 sampling protocol. On June 28th I got a copy of a sampling
6 review done by a Dr. Phil Kaat with National Agricultural
7 Statistics Service.

8 GAP wants to reiterate that we still think that
9 consumers have a right to understand an explanation in
10 English whether the sampling program is adequate that RTI is
11 doing to compare the two systems, and whether the
12 verification sampling is adequate under the models project.
13 And like I said, I think we need it in English, this doesn't
14 explain it to me.

15 But I have some other concerns about this.

16 We asked for an independent review, and I don't
17 have any bone to pick with Dr. Kaat, but he works for the
18 same agency that's devising this models project.

19 VOICE: Not FSIS, however.

20 MS. NESTOR: So that to me calls into question how

1 independent he can be.

2 Also the last couple of comments in the end sort of
3 strengthen that concern that I have. He offers to help FSIS
4 develop a test because he's pointing out the problems you
5 have with how you're going to be doing these comparisons.
6 And he gives FSIS advice in how to present this data so that
7 it looks good. At least that's what I'm reading here.

8 So those are my concerns.

9 And I called Mike Grasso and was asking whether we
10 could have someone here that could explain this to us. So
11 I'm wondering, is there anyone here? I'm not a statistician.
12 Everybody else here that I've heard so far is not a
13 statistician. Is there a statistician that can explain the
14 sampling review to us?

15 MR. BILLY: We appreciate your concerns. We've
16 noted them. Obviously we've followed up on the concerns that
17 were raised earlier. It would be fair to you to assume that
18 as we move forward we will be providing a more detailed
19 statistical explanation of the study, both the design and the
20 results. But we don't intend to do it today.

1 MS. NESTOR: Okay. I have one question based on a
2 sentence in this sampling review. And I'll read the
3 beginning of the paragraph because I'm not sure whether my
4 question will then make sense.

5 But he says, "I focused my remarks on the analysis
6 of a single slaughter plant".

7 MR. BILLY: I just stated that we're not going to
8 address that today. We'd appreciate it, if you'd like you
9 can provide us your questions in writing and we'll respond in
10 writing. As I said, we will be providing a much more
11 detailed statistical explanation of both the design and the
12 results at a future public meeting, and clearly if we move
13 forward in terms of a more formal action to change the
14 regulations that will be a necessity if we're going to move
15 forward.

16 Are there other questions?

17 MS. FINELLI: It just seems to me that I know this
18 has been addressed. You say that past concerns have been
19 addressed, but the sampling size continues to come up as a
20 problem. It seems like we're going to refuse to talk about

1 it and what, then we'll find out that all these results are
2 really skewed and unusable and we're right back at step one?

3 I think we really need to examine this as soon as possible
4 if not beforehand. It should have been figured out
5 beforehand.

6 MR. BILLY: I appreciate your view. We have taken
7 it into account and we are addressing it and we will in fact,
8 as I said already, provide a much more detailed explanation.

9 So I think you're going to have to bear with
10 us. This is a step-wise process. We have asked a separate
11 agency to look at it. They've given us comments and advice.
12 We're responding positively to that. That will be reflected
13 in the project as we move forward and in terms of our
14 analysis of the results.

15 I think that's what we're prepared to say about it
16 today, and as we move forward we look forward to an
17 opportunity where you can ask all the questions you want
18 about this area.

19 Other questions?

20 MS. SCHOR: Okay, we're getting an early lunch

1 since we didn't have a morning break. So I would ask people
2 to return as scheduled, at 12:30.

3 (Luncheon recess taken)

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1 projects, FSIS is maintaining a strong inspector presence.

2 Furthermore, no changes will be made until all the
3 data are in and that the data supports such a change.

4 The goals of the HIMP system are first, to extend
5 HACCP into the on-line slaughter activities, as I have
6 already mentioned. Therefore industry will be extending
7 their interest into assuming responsibility for their
8 products in this area of the plant. It allows FSIS to focus
9 on food safety. It also allows FSIS to shift its focus to
10 system performance in complying with the regulations.

11 What this means is that when we have had the fixed
12 locations as was mentioned this morning for the inspectors,
13 they have been looking at, if you will, on a product-by-
14 product basis. So instead of just doing product-by-product
15 examination they are also now responsible for evaluating the
16 overall performance of the system.

17 It's fundamental to what we're doing with the HIMP
18 model system that we're maintaining the accomplishments of
19 the current inspection system. That I think has been issued
20 and stated in just about every publication and every public

1 hearing that we've had.

2 What is HIMP inspection? The role of the
3 inspection team is really to cover three activities --
4 continuous oversight inspection, and I'm going to cover these
5 topics very quickly because we have five panelists who are
6 sitting to my left, to your right, that will be giving
7 detailed explanations of the topics that I'm mentioning very
8 briefly now, so I won't go into a definition of continuous
9 oversight. Many people probably are already aware of the
10 term.

11 On a regular basis there's scheduled verification
12 that has been included. We also have unscheduled
13 verification that the oversight inspector can call for when
14 necessary.

15 In conjunction with that, we are operating the
16 system against performance standards, some of which
17 discussion has started to take place this morning as relative
18 to the baseline that was discussed. Dr. Henderson this
19 morning also discussed the issues about finished product
20 standards. He gave us some information on how the current

1 system operates.

2 In two ways, the system for HIMP has been designed
3 where they are stricter, our performance standards are
4 stricter than the Finished Product Standards system has been,
5 and I think if you remember from this morning's discussion
6 you may have heard terms like bruises of one-half inch, so
7 many feathers before you had to score the process, and Dr.
8 Henderson went through a description of how that process
9 operated.

10 In this case our definition of a defect is if it
11 exists at all it gets scored and the scoring system then
12 determined based upon the baseline, what was going to be
13 established as our performance standards.

14 Our performance standards have also been designed
15 with a second improvement over the current system. Improved
16 performance over traditional measurements.

17 Traditional measurements we were discussing this
18 morning, also known as the baseline. We are using the
19 baseline data, but we're using the 75th percentile as the
20 standard, based our standards on the 75th percentile, or if

1 we have a total of 16 plants, which is the number of poultry
2 plants we have, it's the performance of the 12th plant, if
3 you will, if you look at the plant's performance on a
4 continuum from say the worst plant to the best plant. We
5 didn't take the worst plant performance, although that plant
6 is producing product today. By worst it doesn't necessarily
7 mean it's bad, it just means what the numbers represented.

8 In preparing our staff for performance in the HIMP
9 system, FSIS training, and the question of training came up
10 this morning also, has been modified to incorporate the needs
11 that we have so that our workforce is properly prepared to
12 perform in the HIMP plans.

13 For supervisor training we cover topics such as the
14 role of the inspector in charge as being the team leader, and
15 what is expected of the team leader in working with the
16 people inside the plant, with the plant personnel, and with
17 the Washington staff, meaning the technical consultants.
18 They were trained in the HIMP system in terms of what was
19 oversight or what is oversight inspection and verification
20 inspection. They were also trained in statistical process

1 control.

2 As you can see, we are moving further and further
3 along into a quantitative system that is determining the
4 measurements of the performance of the systems than we've
5 ever had the pleasure of having from prior times.

6 Inspector training, the inspectors received the
7 same HACCP training that was given to inspectors in the other
8 HACCP plants. The on-line inspectors were not incorporated
9 into the HACCP training at that time, so we did that before
10 we started a HIMP plant.

11 They also received computer training because a lot
12 of our records now are being put into the computer for ease
13 of maintaining the data and further and more important, for
14 the ability to do some analysis on the information. They
15 were also trained in the HIMP system.

16 The status of the young chicken plants. We have 15
17 plants that are waiting to get into the project. That means
18 that we have 16 plants that have done the complete data
19 collection. At this point seven of the 16 are operating
20 under the new model and two of the 16, data is being

1 collected under the models. Remember there was the baseline
2 phase, then the models phase, after they finished, everybody
3 finished with the transition and the system was operating
4 such that they're prepared for the second set of data
5 collection. So two plants have reached that.

6 You do have a handout that lists this information
7 along with the swine information and the turkey information
8 that was on the table this morning.

9 I wanted to particularly mention that we took extra
10 caution during the transition, before a plant actually
11 started making a change in the process. It's already come up
12 this morning about four times the number of food safety
13 checks versus the traditional checks. We have two food
14 safety categories, and I might mention that the agency
15 started with recommending six verifications per line per
16 shift and in consultation with the National Joint Council,
17 one of the topics that came up was let's be extra careful and
18 we agreed with that, and did raise the number to four times
19 or eight checks per shift per line.

20 So we have data on doing the checks six times per

1 shift, and now we have it at eight times. We did agree with
2 that suggestion and did institute that as a policy.

3 Our staffing policy in the plants has been liberal
4 in that we have worked out a staffing policy that we feel
5 gives our inspectors and our inspector in charge ample
6 opportunity to perform the functions that have been done. We
7 wanted to be, again, conservative in how we introduced the
8 system.

9 We also have the technical consultants who are our
10 staff officers either in Omaha, in the technical center, or
11 on the Washington staff that have been assigned to all of the
12 plants. They work together with the in-plant inspection
13 team, answer questions, provide information that's needed,
14 and in other ways support the project.

15 There will be five presentations this afternoon
16 starting with Dr. James on the food safety and other consumer
17 protection conditions, followed by Dr. Dan Engeljohn who will
18 discuss performance standards, followed by Dr. Harry Walker
19 who will discuss the HACCP and the process control plants and
20 the process that we have for reviewing those plans before a

1 plant starts its operation. The fourth presenter will be Dr.
2 Hany Sidrak who will discuss the role of the inspector
3 performing oversight and verification. Finally, Ken Peterson
4 will talk about the in-plant control systems that are in
5 place to be used in the model plants.

6 We will not be taking questions between each of the
7 individuals here this afternoon. If you would, please make a
8 note of any questions that come up. I think the best way to
9 get through the process is to go through the whole process
10 and then the panel of six will be available. We'll have a
11 break as soon as the presentations are finished, and then the
12 panel will be available to answer any questions that have
13 come up during the course of the afternoon.

14 With that as an overview I'd like to introduce Dr.
15 Bill James to talk about food safety and other consumer
16 protections.

17 DR. JAMES: Good afternoon.

18 One of my favorite things to do after a meal is
19 talk about food safety, so let's to it, shall we?

20 (Laughter)

1 One step in the development of the inspection
2 models is that of distinguishing it antemortem and
3 postmortem, animal diseases and conditions that are food
4 safety hazards from diseases and conditions that are
5 objectionable for other consumer protection reasons.

6 We published a Federal Register notice in July 1998
7 which announced the availability of our paper entitled
8 "Diseases and Conditions Observable in Meat and Poultry". We
9 have also discussed this issue at two previous meetings on
10 the HACCP-based Inspection Models Project.

11 Now we are not aware of any pre-harvest program
12 which is capable of producing young chickens that are free of
13 all food safety diseases and conditions. Accordingly, we
14 believe one or more food safety related diseases are
15 reasonably likely to occur in all slaughter production
16 facilities. Therefore, volunteer plants in the HACCP-based
17 Inspection Models Project must have a HACCP plan to address
18 food safety hazards.

19 The other consumer protection diseases and
20 conditions are addressed in an establishment process control

1 plan.

2 Volunteer plants will modify their HACCP and other
3 process control plans to address young chicken diseases and
4 conditions that can be identified at antemortem, and
5 verification of antemortem will be conducted as determined by
6 the IIC.

7 Now young chicken diseases and conditions
8 identified at postmortem are categorized according to their
9 food safety or other consumer protection significance. We
10 have classified certain diseases and conditions as food
11 safety related because they are reasonably likely to one,
12 contain infectious agents that can cause the product to be
13 unsafe for human consumption; and two, be transmitted through
14 a foodborne route.

15 Now diseases and conditions having other consumer
16 protection significance are those that rarely or never
17 present a direct foodborne risk, but are unacceptable
18 components of poultry products.

19 The food safety or other consumer protection
20 distinctions are based on current agency regulations and

1 clinical or epidemiologic literature. Diseases and
2 conditions in both categories are to be removed from the
3 human food supply.

4 In young chickens FSIS has identified to general
5 postmortem food safety categories -- infectious conditions
6 and fecal contamination.

7 Now infectious conditions basically have two
8 categories. One we discussed for a moment this morning,
9 septicemia which we will identify for our purposes as
10 systemic or a generalized disease associated with the
11 presence of pathogenic organisms in the blood stream; and
12 toxemia which is systemic or generalized disease associated
13 with bacterial products, toxins, in the blood stream. Birds
14 exhibiting these conditions are condemned.

15 The second category is fecal material. fecal
16 material must be removed from a carcass according to agency
17 requirements or the carcass must be condemned.

18 This standard has not changed.

19 Other consumer protection or OCP diseases and
20 conditions adulterate products but are not food safety

1 hazards. We have developed five OCP categories for our
2 current use. Examples that I'm about to review within each
3 category have been presented in previous public meetings as
4 examples of OCP diseases and conditions.

5 The first category we'll review is that of animal
6 diseases. Some of the listed animal diseases and conditions
7 are caused by infectious agents. These infectious agents,
8 however, are primarily or only animal specific pathogens that
9 are not reasonably like to cause human foodborne illness.
10 Now if this disease is localized the lesions can be removed
11 and the unaffected portions of the carcass can be passed. If
12 it is a generalized condition the carcass is condemned.

13 You can see some examples up here on the screen.
14 They include conditions such as airsacculitis, tumors, and
15 synovitis. Conditions exhibiting a septicemia or toxemia, I
16 repeat, are considered food safety hazards and they are
17 condemned.

18 Another category is one of superficial conditions.
19 If they are localized, again, they can be removed and the
20 unaffected carcass portions are passed. If they are

1 extensively, however, the carcass may be condemned.

2 Examples here include items such as breast blisters
3 and bruises.

4 A third category is contamination with digestive
5 content. This is handled in accordance with current
6 regulatory provisions. Examples are up on the screen -- crop
7 contents and ingesta.

8 Category four is dressing defects of a
9 miscellaneous sort. We try to characterize these or lump
10 into these categories defects which are of a like nature.
11 This is something of a catchall category, however.

12 Examples of these miscellaneous dressing defects
13 are feathers, lungs, and oil glands.

14 Then our final OCP category are dressing defects
15 which contain digestive track tissue. Again, these defects
16 can be removed and the unaffected carcass portions may be
17 passed. Examples here include things such as crop,
18 esophagus, and intestine.

19 In conclusion, we have made a distinction between
20 diseases and conditions related to food safety and those that

1 are objectionable for other consumer protection reasons.
2 These classifications are subject to change as new scientific
3 information becomes available.

4 This distinction helps us to focus our inspection
5 efforts. The following speakers will provide more
6 information on this point.

7 Our next speaker will be Dr. Dan Engeljohn talking
8 about how the performance standards were established.

9 DR. ENGELJOHN: Thank you. Good afternoon.

10 The significant aspects of the performance standard
11 development for the HACCP-based Inspection Models Project are
12 as follows:

13 The standards will focus on organoleptic factors.
14 The microbiological performance standards currently in place
15 are not intended to be changed at this time.

16 Organoleptic factors relate to the visible defects
17 such as feathers, bruises, and scar tissue as just mentioned
18 by Dr. James which when they're not reasonably controlled
19 they contribute to adulteration determinations.

20 The organoleptic factors were grouped into common

1 categories. First, they were separated into the food safety
2 versus the OCP or other consumer protection, different
3 groups. Then they were further divided within those groups
4 into more specific categories. Under food safety they were
5 separated into an infection condition versus contamination.
6 Under OCP the categories included those for contamination
7 versus dressing defects and versus other condition aspects.

8 Right now we do have five categories. I would add
9 that one of those categories relates specifically to ingesta
10 because we do have an interest in looking at that at this
11 time, so we did separate that category, particularly for
12 evaluation during this project.

13 For the 16 participating plants, each plant's
14 performance or the outcome data for each of the food safety
15 and OCP categories was independently assessed. That is the
16 data was not pooled or averaged across the plants. So that
17 we will have 16 separate data points to be establishing the
18 performance standard and I will go through that in a step-
19 wise manner in the following slides.

20 The performance standards were designed to reflect

1 the current processing capability of the industry under the
2 current inspection procedure. The agency's goal regarding
3 these particular performance standards as well as all the
4 performance standards that we are currently working on, is to
5 tighten them as conditions change, as the industry is able to
6 meet the standards, or as conditions exist such that the
7 agency wants to tighten the standard to force improvement.

8 On this slide I want to talk about how we actually
9 segregated the 16 data points and developed the standard.

10 Values up to and including the 12th plant which are
11 the dark colored columns on the left side of this graph,
12 represent the 75th percentile, meaning that 75 percent of the
13 plants -- that's 12 out of 16 plants -- are represented by
14 those dark columns. The other four plants are represented in
15 yellow on the right side.

16 I also would like to explain that the numbers at
17 the bottom of the graph are arranged left to right reflecting
18 the best to the worst performance during the five week
19 baseline study conducted by RTI for each of the participating
20 plants.

1 The actual plant designated by the plant number on
2 the bottom axis of the graph may be different for each of the
3 OCP categories. That is plant X may be identified in the
4 plant 15 position for OCP-1, but plant X may be in the third
5 position for OCP-5. So again, we separated the data,
6 determined the performance standard on an individual plant
7 basis. We didn't identify the plants specifically, but we
8 kept the data segregated.

9 For purposes of this discussion, the black columns
10 represent plants one through 12 and they also represent the
11 top 75 percent performance. That is these plants had the
12 best performance for a particular OCP category.

13 The yellow columns, they appear in white on the
14 handout that you have, represent the worst performing plants,
15 and that would be four out of 16 plants.

16 I'd also like to point out that when I talk about
17 percent of carcasses with OCP-1 or OCP-2 what that means is
18 this represents the number of carcasses out of the 32,075
19 carcasses that were collected for each of the plants. So
20 it's a percent carcass found with defects within a category.

1 Regarding the selection of the 75th percentile,
2 this represents a tightening in terms of the current
3 inspection system capability. We could have selected at the
4 100 percentile which would have been the 16 plants' data.
5 That plant, as you will recall from this morning, was
6 producing product that passed the current inspection system.
7 So all these data points represent product that passed the
8 current inspection system.

9 We selected the 75th percentile because it's a nice
10 way to segregate the data. We could have gone with the 80th
11 percentile or the 50th percentile or the 25th percentile, but
12 we took into consideration current capacity to be able to
13 meet the standard.

14 We also need to be considerate of the impact that
15 the standard will have in terms of production as well as
16 inspection, and those will be issues that we will welcome
17 input from the stakeholders as we move forward with this
18 project.

19 I'd like to point out that the performance standard
20 represents the agency's current thinking. We do intend to

1 publish this project as a proposed rule this summer and would
2 welcome comment on any aspect of the project, and
3 particularly the performance standard.

4 On this next slide I'd like to explain a little bit
5 about what we have here. Again, we separated this into the
6 outcome of the 12th plant, which represents the top 75
7 performers out of the 16 plants versus the outcome of the
8 16th plant which is what we will call the 100th percentile.

9 For food safety defects, and it's listed here again
10 as percentages, we've identified that for food safety one,
11 and that would be the infectious conditions category, the
12 performance standard or the data that was represented by the
13 RTI sampling, showed a 0.1 percent for the 7th percentile or
14 the 12th plant, and it shows 1.6 percent of the carcasses
15 with food safety one in the worst performing plant.

16 For FS-2, it was 1.5 for the worst plant, 3.3.

17 For the other consumer protection categories, OCP-1
18 is at 1.7 for the 12th plant versus 6.4, and so on down the
19 list.

20 Again, we separated the defects that were found or

1 recorded by RTI into the two food safety categories and the
2 five OCP categories.

3 On this slide I'm presenting the actual performance
4 standards for the HIMP plant, and this represents the maximum
5 percentage of carcasses with defects within a category.

6 I want to particularly point out that for the food
7 safety category we have the actual data which for food safety
8 one was 0.1 and for food safety two it's 1.5. We adjusted
9 the performance standard for both what the plant has to meet
10 as well as what FSIS verification will check against to zero
11 percent. There is a zero tolerance for both the food safety
12 categories.

13 For the other protection OCP categories, we left
14 the performance standards as represented by the 12th plant.
15 Again, that's the 75th percentile or the top 75 percent of
16 the performance of the 16 plants. Again I remind you that
17 OCP-1 deals with animal disease. OCP-2 deals with conditions
18 such as sores. OCP-3 with ingesta. OCP-4 with dressing such
19 as feathers. And OCP-5 with intestinal tissue.

20 Again, I'd like to point out that we at this time

1 do have two food safety categories. I don't expect that we
2 will be revising that, but certainly based on comment that we
3 get with the proposed rule, there may be reasons to
4 reconsider that. But for the OCP categories I can say that
5 there is an interest in collapsing the categories down to
6 fewer categories, but we would do that with looking at the
7 data to see how it impacts on the performance and the product
8 that would result from collapsing the number of categories.
9 But at this time there will be five categories that we will
10 evaluate.

11 This next slide presents some information that I'll
12 go through, and I'll walk you through some information that's
13 not on this slide but in the handout materials that you
14 received you have a number of pieces of paper that walk you
15 through the differences between the current FPS or Finished
16 Product Standards system versus the new HIMP-based system.
17 But just so that you can look at this and get a little bit of
18 idea of what I'm talking about I pulled out the OCP-5
19 category specifically to make the comparison.

20 Within the Finished Product Standards group we have

1 the individual defects listed separately. They're not
2 combined into categories. So for instance for intestinal
3 material, the maximum percentage of birds with defects is 60
4 percent. For the esophagus it's 100 percent. The crop which
5 has partial, it's partial crop with mucosa, is 100 percent.

6 In lumping these categories into one OCP category
7 in the HIMP project, what we were able to identify was the
8 number of carcasses with these defects resulted in a
9 performance standard of 20.8 percent as opposed to the
10 individuals for the defects allowable on maximum number of
11 birds.

12 I'll just walk you through a few of the differences
13 between the two systems which again are noted on the handouts
14 that you do have.

15 In the traditional system, tests are conducted for
16 each line hourly by the plants as well as hourly in the HIMP
17 system. So there's no difference there.

18 In the traditional system, tests are conducted two
19 times per line per shift on a ten bird sample by FSIS.

20 In the HIMP system, and this will be discussed at a

1 later presentation by Dr. Ken Peterson, tests are conducted
2 eight times for the food safety categories, and they're
3 conducted six times for the OCP categories -- two of which
4 are on the birds themselves, on ten carcass samples. There
5 will be two individual ones per line in the operation, so
6 there will be two hands-on tests and then four records review
7 under the HIMP system.

8 In the traditional system defects are grouped into
9 categories as they are in the HIMP system. In the
10 traditional system there are 19 processing defects and 14
11 pathology defect categories.

12 In the HIMP system at this time there are two food
13 safety categories and five OCP categories.

14 In the traditional system different defects
15 represent different or separate categories.

16 Within the HIMP system different defects are
17 collected within a category.

18 In the traditional system, the sum of the defects
19 are calculated against a standard.

20 In the HIMP system the sum of the birds, as opposed

1 to the defects, are calculated against a standard.

2 The way we've looked at the information from the
3 two systems, when you sum the defects in the Finished Product
4 Standards system, the importance of each defect is minimized,
5 it's diluted. But in the HIMP system by calculating the
6 number of birds against a standard, we believe that this
7 enhances the importance of each defect.

8 On this slide I'm pointing out the FSIS
9 verification activity that will occur. Again, the food
10 safety verification will be handled through the HACCP system
11 so I'm going to concentrate on the OCP activity.

12 There is an 85 percent criteria that was used in
13 terms of determining the performance standard which means
14 that a plant operating at the performance standard -- for
15 example, for OCP-5 the performance standard is 20.8. If a
16 plant is operating at that performance level we would expect
17 the plant to fail 15 percent of the time. So by adding the
18 85 percent criterion into the performance standard and the
19 verification activities, it adds an increased tightness to
20 the process control that the plant would have to have, so

1 they certainly would have to take that into account in
2 designing their process control system.

3 The FSIS verification samples can be accumulated
4 throughout the day if necessary to provide a minimum size to
5 evaluate. And we've determined that a minimum size is 50
6 birds. We built in some flexibility into the system to allow
7 the IIC, the inspector in charge, to make some determinations
8 as to whether or not the sample size can be increased, and
9 we've developed criteria that reflects from a minimum of 50
10 bird sample sizes up to 100.

11 Again, this provides some flexibility but it also
12 continues to define the performance level that the plant
13 would have to meet and it maintains the 85 percent criterion.

14 I'd like to point out that for OCP-1 which there
15 was quite a bit of discussion about airsac, airsac would fall
16 into the OCP-1 category.

17 We've added an additional criteria to address a
18 process that's inadequately controlled.

19 During the RTI baseline collection period, the
20 maximum or the greatest individual number of defective birds

1 founds was 15 percent. Remember that the performance
2 standard for OCP-1 was set at 1.7 percent. that was at the
3 12th plant.

4 So what we've done is if any time during the
5 production 10 or more birds which are sampled and in
6 accumulating those samples up to the sample size of 50 or 60,
7 if at any time there are 10 or more birds found with OCP-1,
8 then there are additional actions that the plant would have
9 to follow up with to address this particular issue which we
10 would deem to be out of control.

11 One of those would be following up with a 60 bird
12 post-chill sampling, and I think Dr. Peterson will deal with
13 that in more detail later in terms of how we handle
14 verification by FSIS.

15 On this last slide I'd like to just point out some
16 of the concepts of the verification activities that do occur,
17 and I have two different activities up here, one being lot
18 acceptance and the other being SPC or statistical process
19 control.

20 Traditionally acceptance sampling has been used by

1 both the plants and by FSIS for a variety of processes. For
2 the plants, acceptance sampling does not provide meaningful
3 measures for process improvement. Each lot of product is
4 independent of the next, and there is no indicator of
5 processing variability from one lot to the next.

6 For FSIS, however, acceptance sampling has been an
7 effective means of verification because it allows the agency
8 to address acceptability of a lot at any given time.

9 If the plant does not have control over its own
10 processing variability the chances of a plant passing FSIS
11 verification is significantly reduced.

12 We built in what we would hope and encourage all
13 plants to use during this model phase, statistical process
14 control, and we're certainly intending to propose this as a
15 requirement in the proposed rule.

16 Statistical process control is a means of
17 characterizing the variability within a process and then
18 controlling that variability so that the chances of passing
19 the FSIS verification is significantly improved.

20 Again, we're considering making this a mandatory

1 requirement of the proposed rule, and we're encouraging the
2 plants to take advantage of statistical process control
3 during this models project phase because it is one way for
4 them to be able to address continual improvement in their
5 processing capability.

6 I put up some terms up here related to stable
7 processes and capable processes. These are terms associated
8 with statistical process which are measures to define if a
9 plant is actually performing at the level they're capable of
10 and if they're able to maintain it. So in the proposed rule
11 we certainly will add additional information about that.

12 But in closing my discussion on performance
13 standards, I'd like to again address the issue that we've
14 established the standard tighter than what we believe the
15 current system is, considerably tighter by setting it at the
16 75th percentile. We've built in the concept that we're
17 interested in process system capability, and controlling the
18 system as opposed to reacting to individual ten bird samples.
19 So as a consequence we will be pulling samples throughout
20 the day, and in fact be looking into ways of increasing the

1 sampling timeframe so that it can go beyond one day to more
2 days, but those would be issues that we would bring up in the
3 proposed rule.

4 Again, you should expect that we will be proposing
5 this yet this summer.

6 Now you'll hear from Dr. Harry Walker. Thank you.

7 DR. WALKER: Thanks, Dan. Good afternoon everyone.

8 Today I'll be discussing the agency review of HACCP
9 plans and process control plans or PC plans.

10 An important element in the review process of
11 HACCP plans and PC plans is to ensure that a plant is ready
12 to start the transition phase of the models project. If we
13 determine a plan is not adequate, then we communicate this to
14 the establishment and require that the plan be corrected. We
15 retain the right to postpone the startup of transition if
16 adjustments cannot be made in a timely manner.

17 Of course in order to review a plan, the
18 establishment must first develop one and submit it for
19 review. Their HACCP plan must address food safety issues and
20 their PC plan must address other consumer protections.

1 The plan must be specific on how it will deal with
2 food safety and OCP issues.

3 To let establishments know what we're looking for,
4 we send guidelines for preparing industry HACCP and PC plans
5 for FSIS review. I'll be discussing this a little bit more
6 in a few moments.

7 Then we address the two basic components of the
8 plan. The HACCP plan has to be consistent with regulation
9 417. Then we make recommendations to the PC plan.

10 Just to let people know, it takes 12 to 15 working
11 days for FSIS to review the plan.

12 An outline of preparing a HACCP plan and a PC plan
13 for FSIS review includes the guideline to industry. And in
14 this what we try to have is a stand-alone document. In a few
15 minutes this will be explained, each one individually, why we
16 need the stand-alone document.

17 The next one is the elements necessary by
18 regulation to constitute a HACCP plan and what we're looking
19 for in the PC plan to include statistical process control.

20 Then just a few comments on the overall format.

1 I need to explain a little what I mean by a stand-
2 alone document. What we're looking for really is a document
3 that the inspector can sit down and read and be able to
4 understand the plan with what's in front of him at that time.

5 If there's any supplemental documents to the plan we ask
6 that those be included so that the inspector can review it.

7 We feel this is to everyone's advantage, and an
8 easy to understand plan is going to be less plan for the
9 establishment explaining how the plan works and it's going to
10 be less time for the inspector understanding the plan. I
11 think that's to everyone's advantage.

12 On the PC plan, what we're looking for first is the
13 regulatory requirements of 417. At a minimum it must have a
14 hazard analysis, a flow diagram, the CCP locations, control
15 measures, corrective actions, the frequency of monitoring,
16 and verification procedures. One non-regulatory thing that
17 we're looking for also is the performance standards for food
18 safety conditions.

19 On the process control plan, again we provide
20 guidance on the PC plan and it should contain at a minimum

1 the basic elements of the guideline draft 31899, process
2 control based inspection in models plants. I'll go into this
3 again in just a few moments.

4 And it should also have a listing of the
5 performance standards for other consumer protection
6 conditions.

7 The elements of the PC plan that we're looking for
8 that I just mentioned are control charts. Of course control
9 charts enable the establishment to track trends.

10 Sampling refers to how often carcasses are checked
11 and the number of carcasses in the sample size. This of
12 course should be based on the size of the lot being examined.

13 The upper limit should be at or below the
14 performance standard. Documentation of process adjustments
15 addresses significant changes in the process, and of course
16 we'd like to know what type of recordkeeping is occurring and
17 who the designated officials are. In case there's a problem
18 who do we go talk to?

19 On statistical process control the only thing we're
20 really asking is, we're telling the plants that we strongly

1 encourage the use of statistical process control because it
2 predicts trends. Dan explained a little earlier the
3 importance of that.

4 Just a few comments on the overall format. When
5 there's a review team reviewing this over the phone in
6 several different locations it really helps to have a table
7 of contents that references the page numbers. And of course
8 when we talk to the plant the same problem occurs, we can't
9 communicate where the problems are.

10 It's also helpful to identify the appropriate parts
11 of the HACCP and PC plan that address antemortem and
12 postmortem.

13 So the ongoing process, that's the final step.
14 When the establishment starts a transition phase, a technical
15 consultant from headquarters is present to ensure that the
16 actual plant practices conform to the submitted plans. So
17 when we receive a plan, we review it, make sure it conforms
18 to regulatory requirements of HACCP for food safety
19 conditions, make recommendations on the PC plan for other
20 consumer protection issues, and inform the establishment of

1 our findings.

2 When the establishment starts transition, a
3 technical consultant is present to ensure that the actual
4 practices match the written plan.

5 The next speaker will be Dr. Hany Sidrak.

6 DR. SIDRAK: Thank you, Harry.

7 I'll be talking about oversight and verification
8 inspection procedures under HIMP.

9 A HIMP establishment slaughter inspection consists
10 of two types of procedures -- oversight inspection and
11 verification inspection. FSIS inspectors are trained to
12 perform both types of inspection procedures.

13 The inspector in charge, IIC, has the responsibility
14 to determine how to allocate inspection resources in the
15 plant.

16 Unlike the traditional slaughter inspection system
17 where inspectors are assigned to fixed points along the
18 slaughter line, inspectors in a HIMP establishment may be
19 assigned to perform oversight inspection at any point in the
20 evisceration process. HIMP inspection activities are

1 designed to fit the individual establishment's HACCP and
2 process control Pc systems.

3 Oversight inspection consists of inspectors
4 continuously observing slaughtered carcasses and plant
5 employees conducting sorting and other on-line activities.
6 Every carcass receives oversight inspection.

7 Under oversight slaughter inspection, inspectors
8 make expert and informed observations of the establishment's
9 HACCP and PC systems. For example, inspectors may perform
10 oversight inspection at places where plant employees are
11 monitoring critical control points and at points where
12 critical equipment such as poultry eviscerating machines are
13 operating.

14 Inspectors conducting oversight activities are
15 equipped with modern technological devices to rapidly report
16 to the IIC any observations of potential process deviation.
17 For example, the eviscerating equipment in a poultry plant
18 may not be perfectly aligned for the size birds that arrived
19 that morning. As a result, an unusual percentage of
20 carcasses may be contaminated. The oversight inspector

1 rapidly communicates excess contamination to the IIC who
2 decides how to respond.

3 Verification inspection consists of inspectors
4 taking samples of product and carefully examining them to
5 ensure regulatory compliance. Inspectors examine all
6 establishment records including HACCP records. Inspectors
7 also review and determine the adequacy of corrective actions
8 taken when deviations occur.

9 Verification inspection procedures are carried out
10 by inspectors after the establishment's HACCP and PC systems
11 have been completed. HACCP systems address food safety
12 concerns and PC systems address other consumer protection
13 concerns.

14 Verification inspections are conducted at two
15 frequencies. The first frequency is a routine or steady
16 state frequency designed to confirm the establishment's
17 regulatory compliance and the second frequency the IIC may
18 choose to assign verification inspection procedures in
19 response to oversight inspection findings reported to him or
20 her. This strategic assignment of verification inspection

1 enhances the capacity of the regulatory system to hold
2 establishments accountable for the continuing successful
3 operation of their process control system.

4 In this slide it shows that unlike the traditional
5 inspection where an inspector is assigned to a fixed
6 location, here inspectors can move up and down the
7 eviscerating line to conduct oversight inspection.

8 Another slide here is showing an inspector
9 conducting postmortem oversight procedure and she is using a
10 quick communication device to report findings to the
11 inspector in charge.

12 I have a couple more slides regarding verification
13 inspection. In this one the inspector is conducting
14 antemortem inspection.

15 Another example of verification inspection is
16 inspector performing a fecal zero tolerance verification
17 check. That is done eight times per shift per line.

18 FSIS is able to quadruple the number of food safety
19 checks and conduct two OCP procedures in addition to four
20 examinations of establishment sample records per line per

1 shift.

2 That's another example for a verification check on
3 the anti-microbial chemical level.

4 My final slide is an example of how HIMP made
5 possible for industry to use modern technology. Showing is
6 an establishment employee using a technologically advanced
7 carcass disposition recording system. By pressing the
8 appropriate position on the key pad, data such as carcass
9 postmortem disposition and product performance standard
10 testing enters directly into the computer system, allowing
11 for continuous monitoring by establishment management.

12 I'd like to point out that this data is also
13 available for FSIS verification at all times.

14 Next is Dr. Kenneth Peterson.

15 DR. PETERSON: Now we're going to look at what are
16 our in-plant regulatory controls. These activities are based
17 on basically everything that we've heard so far this
18 afternoon.

19 The next two slides are going to provide us just an
20 overview of what we do and then we'll look at each of them a

1 little bit more closely.

2 We conduct continuous oversight inspection of the
3 plant implementing their HACCP and process control plans.
4 We've heard about how we review their plans, now we're
5 looking to see that they're actually doing what they told us
6 they were going to do.

7 We conduct scheduled verification at antemortem;
8 scheduled verification of product for food safety hazard;
9 scheduled verification of product for other consumer
10 protection defects; scheduled verification of the HACCP and
11 PC plan records. Again, we just heard some of the elements
12 that are in their plan which includes documentation, so
13 again, are they doing what they said they were going to do?

14 We have the opportunity to conduct unscheduled
15 verification of products or records should the need arise.

16 We document our findings and we retain our
17 regulatory authorities.

18 It's becoming a popular slide.

19 (Laughter)

20 This is an example of an FSIS inspector, in this

1 case the veterinarian in charge, conducting a scheduled
2 antemortem.

3 Currently in a traditional plant, antemortem is
4 really a random activity that we do basically when we get to
5 it. And those activities are infrequently documented.

6 We've changed that to become a scheduled activity
7 to include scheduled record checks of what the plant is
8 observing when they do their antemortem.

9 Verification of food safety hazards. We look at
10 ten birds at the pre-chill location eight times per line per
11 shift. So 80 birds per line.

12 As far as scheduling this activity, it is four
13 times more frequent than we do under the traditional system.

14 We do the verification for food safety hazards for
15 the two food safety categories that we've had mentioned
16 earlier.

17 The first one is the so-called FS-1 category. We
18 check to see that birds do not exhibit septicemic or toxemic
19 conditions. This is a new food safety verification that we
20 do not have in the traditional plants, so plants under the

1 HIMP system now are subject to this food safety hazard.

2 The verifications for zero tolerance are basically
3 conducted the same way we do in traditional plants, except
4 with the increased frequencies.

5 Should we find a failure, our response in these
6 plants is the same as it is in a traditional plant that's
7 under HACCP. A non-compliance record or NR is written by the
8 inspection service and the plant must initiate corrective and
9 preventive actions. Except in the HIMP plants they're
10 subject to that for these two food safety hazards instead of
11 just one.

12 Verification of the OCPs. We verify each of the
13 five OCP categories that we've had mentioned earlier. This
14 activity is done six times per line per shift. Fourth of
15 those six are records checks. Again, is the plant doing and
16 documenting what they said they would do?

17 Two of those six are ten-bird verifications per
18 line, for each of the five OCP categories. However, with the
19 increased staffing flexibility that we're now afforded
20 because we're not at fixed locations, the IIC, should the

1 need arise, can shift some of the scheduled sampling, bias it
2 if you will, away from lines that he or she believes are
3 under control towards lines that he or she has questions
4 about control. So we can shift our sampling as the need
5 arises.

6 As we've just seen for the oversight inspection, we
7 can conduct unscheduled sampling. The oversight inspector
8 identifies a particular problem, we can react to it, verify
9 it with unscheduled sampling.

10 So for each of the five OCPs the plants are
11 expected to meet the performance standards on a per shift
12 basis. The IIC documents these daily results. So how do we
13 do this?

14 For the OCP categories, we expect the plants to
15 maintain continuous process control. To monitor this we
16 evaluate it over a 25 day period. We'll look at an example.

17 Let's presume we have a typical three line young
18 chicken plant. We would routinely check 60 carcasses for
19 each of the five OCPs in that plant per shift. So 20
20 carcasses per line routinely.

1 If we take the OCP-5 example which Dr. Engeljohn
2 mentioned earlier, again this category includes things such
3 as pieces of crop, cloaca, those kinds of things.

4 From the 16 plant data we found that the maximum
5 allowable, which is the expression of the performance
6 standard, is 15 out of 60 carcasses.

7 Also what we found from the 16 plant data is that
8 under the current system if we apply this new standard, the
9 current system would have failed this standard five out of 25
10 days. The 25 days is, you'll recall, the organoleptic
11 sampling period that we had in these plants.

12 So that's the accomplishment of the current system.

13 How do we track it in the HIMP plants? Well, as I
14 said, each day we'll take the OCP-5 example, we monitor the
15 carcasses to see if they have fewer than these 15 out of 60
16 defects. If they exceed the 15 at any time during the day
17 then we notify the plant. If they exceed it three days from
18 now, we notify them again. We expect that as we get
19 incrementally closer to the five days, we would expect a
20 plant to react to that and look at their process. Why are we

1 going out based on the inspection results? Is it an
2 equipment problem, a training problem? What is it? So they
3 can start to deal with it.

4 If, however, they don't control it and they exceed
5 the five out of 25 days, then they must reassess their PC
6 plan to include detailing new preventive and corrective
7 actions. We do a similar activity for each of the other four
8 OCPs. So we track them over time.

9 As was mentioned in Dr. Engeljohn's presentation,
10 for the OCP-1, which is the animal diseases, we do an
11 additional OCP verification. Animal diseases are not
12 processing defects. We expect them to be controlled a little
13 more closely. They're subject to what was previously
14 referred to as the maximum limit. So for OCP-1, the maximum
15 limit, again using this three line example is nine carcasses
16 at any time during the shift.

17 If the plant exceeds that they've exceeded the
18 maximum limit and that again arises from the baseline data.
19 If they exceed it at any time, then they must go to the post-
20 chill location because that's where the represented product

1 is, and begin testing for this category. If they fail, then
2 they are subject to reworking that product to bring it back
3 into compliance for this category.

4 They must continue that post-chill testing until
5 they reestablish the process as being under control at the
6 pre-chill location.

7 So what do we have? We have now two food safety
8 performance standards. We look at them more frequently. We
9 have the same regulatory authorities. We do continuous
10 oversight at any location. We track all of the OCP
11 categories over time. However, for the one category, we'll
12 look at them a little more closely. And we have the
13 flexibility to verify that the process is in control,
14 flexibility through unscheduled sampling or biasing our
15 sampling towards different lines to monitor the process.

16 I believe John McCutcheon has some good news.

17 MR. McCUTCHEON: To give you time to properly
18 prepare your questions I propose that we take a 15 minute
19 break and that we reconvene at about five minutes of 2:00.

20 (Recess taken)

1 MR. McCUTCHEON: If we can get started with the
2 questions and answers.

3 There's a page that looks like this that you may
4 remember from Dr. Engeljohn's presentation. We have tried to
5 put copies of that out at all the places. Unfortunately, it
6 was left out of the hard copy that you picked up at the front
7 desk. So if you would, you can just add that to your
8 package.

9 We're open for questions. If you would remember to
10 identify yourselves for the purpose of the record, and if you
11 would identify which panelist your question is directed to,
12 that would be helpful.

13 MR. POCIUS: Joe Pocius with Wampler Foods.

14 I guess the question is for Dr. Walker, and it has
15 to do with the review process and the approval of the plan.

16 Could you walk us through a little bit of what the
17 steering committee's role is and how this whole approval
18 process takes place? I'm not sure I'm clear from your
19 handout here.

20 DR. WALKER: In the review process the steering

1 committee oversees what we do and makes comments and
2 recommendations. If something comes up that I don't
3 understand as the coordinator for the technical consultants I
4 take this to my Mike Grasso and he will then either answer
5 for me or take it to the steering committee.

6 I'm not quite sure if that answers your question.
7 I may not totally have understood it.

8 MR. GRASSO: The process that we use is that the
9 establishment submits not for approval but for review and
10 feedback on both the HACCP plan and the process control plan.

11 The steering committee does not review those plans.
12 Dr. Walker heads up a technical team from the Office of
13 Public Health and Science, OPPD&E in Washington and the
14 technical center, Omaha, Nebraska, and then they review the
15 document and we provide verbal feedback to the establishment
16 on both plans.

17 Does that help?

18 MR. POCIUS: Yeah.

19 MR. GRASSO: We actually have a conference call
20 with the plant after the review and then if any changes have

1 to be made, those changes are made, the IIC is involved with
2 the conference call and the changes that are made between the
3 plant and the IIC.

4 MR. POCIUS: Is the difference between a review and
5 approval a subtle word?

6 MR. GRASSO: It's a major word.

7 MR. POCIUS: If a plan is submitted and goes
8 through a review, comes back with recommendations. Those
9 recommendations will be taken and put into play where they
10 can be, but some may not be if it's not
11 possible. How then would the plan -- What's the future of
12 that particular plan?

13 DR. WALKER: If I could answer that here, if it's
14 dealing with food safety issues it must comply with the
15 current regulations 417. There are some things in food
16 safety that we are recommending. As I mentioned earlier, the
17 performance standards for food safety, for example.

18 The other things that we make comments on are in
19 the process control portion of the plan. And those we make
20 recommendations on.

1 Once we get through with this process of making
2 recommendations, it is then between, I can't say totally, but
3 pretty much between the IIC and plant management to come to
4 terms on whether the plan is going to work the way it should.

5 MR. POCIUS: Let me ask another question that may
6 play into this, it may not.

7 Earlier we were talking about the OCP and if the
8 OCPs, any one of them, were failed five out of 25 times, you
9 go into post-chill check and you continue to post-chill check
10 until you gain control up front.

11 Let's for instance say that maybe it's feathers.
12 Let's say we can't gain control up front. We just decide
13 okay, we're going to do post-chill checks. How long do we go
14 and do that? What's the action?

15 Is it the intention of the agency over time to shut
16 a line down for feathers, for instance?

17 MR. McCUTCHEON: Ken, does that get into your area?

18 DR. PETERSON: The performance standards as of now,
19 and we'll take the example you're talking about, feathers,
20 are to be met where we collected the baseline data, and

1 that's at the pre-chill location. For the example you gave,
2 we don't do any post-chill activities related to these OCP
3 activities other than OCP-1. Those post-chill activities I
4 mentioned are limited to that category.

5 So we expect them to be met, as I said,
6 consistently over time.

7 I think during the actual models phase, I'm not
8 aware of any plants that are having repetitive problems,
9 cycling in and out of this 25 day period.

10 If we get into that situation then it is a pilot
11 and we have some leeway on exactly how we want to approach
12 that.

13 Once we get to a rulemaking activity I think our
14 enforcement actions related to that would be more clearly
15 described. So we're in a pilot phase. We have some
16 flexibility that once we get into a rulemaking mode would be
17 more open for everyone.

18 MR. BYRD: Ken Byrd with Pilgrim's Pride.

19 I had a couple of questions. I was wondering on
20 the slide of the veterinarian doing the antemortem, I wonder

1 if he changed his coat before he went back out to --

2 (Laughter)

3 DR. PETERSON: We checked, and he definitely did.

4 MR. BYRD: Did a zero tolerance check on him.

5 Something a little more on the serious side. Dr.
6 Sidrak, in your presentation you were giving the example of
7 the oversight inspection that an inspector observing an
8 eviscerater out of line that was causing a higher than normal
9 number of contaminated carcasses.

10 My question is, what is the standard that that
11 inspector would use to make that determination? Is there a
12 standard for this? Is there some guidelines? Is it an
13 opinion? What standard would they use to say okay, you've
14 got too many contaminated carcasses? And is there a
15 possibility that this over a period of time could get off
16 course and get back into command and control type inspection?

17 DR. SIDRAK: What I wanted to come across in that
18 slide, if the inspector observes more contaminated carcasses
19 as compared to what they're usually used to seeing. Remember
20 they have used also the terms that these people, meaning our

1 inspectors, are trained expert individuals and looking at the
2 process. That's a very important point to bring up here.
3 That's not just a casual observation. These people are used
4 to seeing, for instance, let's say a two percent
5 contamination in all day scattered.

6 When you have a situation as I described, you're
7 seeing more frequent contaminated birds, and at that point in
8 time they cannot leave the oversight activity and go perform
9 something else. They are merely conveying that observation
10 to the inspector in charge who might choose to react in
11 different ways. One of them is to instruct another inspector
12 to conduct a verification activity, meaning going to at the
13 end of the line after the final wash, before the chill, and
14 conduct a zero tolerance check, for instance. That might
15 reveal that the process is in control and that's it.

16 So I don't think this will bring us back to command
17 control, per se. We're just saying that there is more
18 flexibility for us to make sure that the compliance is met.

19 MR. McCUTCHEON: I might add there are really two
20 ways we see that being used. One is the inspector in charge,

1 let's say in the morning if he knows that an above average,
2 weight wise, a lot of birds coming in, may request that
3 additional unscheduled verification checks could be made to
4 be sure that the equipment is in fact adjusted properly
5 before it gets started. So the IIC could use it with
6 whatever other additional knowledge he has to do that on a
7 regular basis.

8 In addition, the unscheduled verifications are done
9 by the, requested by the oversight inspector when they see
10 something going down the line. And we think that's a way of
11 designing a responsiveness into the system to use
12 professional judgment. And if in fact everything is "okay"
13 then the additional check should show that it's okay and
14 there shouldn't be a problem.

15 MR. MINA: Can I add something to that response
16 from a practical standpoint. If every bird that's coming
17 down the line or every other bird is contaminated, that
18 obviously is excessive, and we're going to take whatever
19 action to correct that situation including stopping the line,
20 asking you to slow the line down. Those are the actions we

1 have taken traditionally. And HIMP would not change that.

2 MR. BYRD: Where I was coming from were the
3 borderline questionable. Not the wholesale every bird coming
4 down is contaminated, but some of the in-between type
5 instances where well, it may be a little more than what we
6 might see, but it's not too awful much either or some of
7 those in-between gray areas.

8 MR. McCUTCHEON: Was there a question over here?

9 MS. DeWAAL: Caroline Smith DeWaal, Center for
10 Science in the Public Interest.

11 I want to get back to the questions on
12 airsacculitis. And essentially how this -- This program was
13 premised on the idea that there are very low disease rates
14 among these poultry products, and yet some recent news
15 reports have indicated that in fact in some of these plants
16 the amount of diseased poultry may be much higher than we
17 thought.

18 Can you give us a sense of what the disease rates
19 are for airsac? And then I have some followup questions.

20 MR. McCUTCHEON: I'll call on Bill James for that.

1 DR. JAMES: The agency keeps statistics on
2 condemnations of young chickens and we report them each year.
3 The levels of condemnation in young chickens, I'm pulling
4 this out of my memory, was .6 or .8 percent, a very small
5 number of young chickens.

6 So when we say this project is designed for young
7 uniform healthy animals, young chickens as a class of animal
8 meets that. That's a very low condemnation rate.

9 We are aware, though, that when disease presents
10 itself, it is not necessarily in a uniform manner. So
11 reports of high levels of airsac in some areas of the country
12 during some seasons is not news. We believe this process
13 that we're developing will be able to control that. This
14 will be tested.

15 MS. DeWAAL: But reports on highly contaminated
16 meat products being produce out of airsac lesions, I guess,
17 seems to be news, so I think we need to deal with that.

18 What percent of the airsac poultry is not
19 condemned? You were saying earlier based on questions I was
20 asking that the airsac can lead to a septicemia but

1 frequently it leads to lesions.

2 DR. JAMES: That is a statistic that I don't think
3 we would know. Most birds that come into the plant with
4 airsacculitis are handled in such a manner that the carcass
5 need not be condemned if there is not a septicemic condition.

6 But which proportion of birds have airsac and then are
7 passed is not a statistic the agency keeps.

8 MS. DeWAAL: On Dan Engeljohn's presentation he
9 said that airsac would be treated as an OCP-1 and yet the
10 condition sores, which the lesions seem to be described as
11 sores, is treated under OCP-2. Can you tell me where airsac
12 is being -- What it's being counted as right now?

13 DR. ENGELJOHN: Airsacculitis is included in OCP-1
14 and sores is in OCP-2.

15 MS. DeWAAL: So septicemic birds would be treated
16 as one and --

17 DR. ENGELJOHN: No, septicemic would be treated as
18 a food safety in FS-1 which is an infectious situation. So
19 once they reach that point they're a food safety issue.

20 MS. DeWAAL: But the lesions from airsacculitis are

1 treated under which category?

2 MS. GLAVIN: OCP-1.

3 The reason I jumped in is, you referred to some
4 recent press accounts, and I just wanted to reiterate that
5 following those press accounts both the agency and the
6 Department's Office of Inspector General went into those
7 plants and did an investigation and found no evidence of
8 adulterated product being shipped or of other violations of
9 the law.

10 MS. DeWAAL: And adulterated in this instance
11 includes unwholesome product?

12 MS. GLAVIN: Yes.

13 MS. DeWAAL: And finally, one more question just on
14 the same page and then I'll turn it back over to someone else
15 because I have more I'll ask later.

16 On OCP-2 and on OCP-4, you seem to be permitting
17 rates as high as 52 percent of product under these, the HIMP
18 plants can have sores and 80 percent can have feathers. For
19 the feathers, why have a standard at all if 80 percent of the
20 birds can have them?

1 But is that standard for sores really sufficient?
2 I think consumers would like to see that standard much lower.

3 DR. ENGELJOHN: I'll just the issue again, we were
4 taking the data that was compiled by RTI which was actually
5 collected on the individual defects. We categorized them
6 into categories that has multiple defects within a category
7 for the most part. So for instance for OCP-2 where sores are
8 included it includes a number of other things that are there,
9 so it's not the only thing within that category that counts
10 towards that number.

11 But again, the numbers that we have, referring to
12 OCP-2, again at the 75th percentile where 12 out of 16 plants
13 were actually performing, that establishes a level of 52.5
14 percent of the carcasses that would have any number of
15 defects within OCP-2. Whereas the worst plant participating
16 in this project we found 86.9 percent in the 16th plant.

17 So this, in terms of process capability and what
18 may in fact be happening within the industry today and
19 getting to the system we currently have, the worst plant in
20 this particular project showed 86.9 percent for that same OCP

1 category.

2 So can we tighten that standard down because we
3 don't believe we should be setting the standard at the worst
4 case for this particular project because we do have the goal
5 of process improvement and performance standards. So we
6 established a standard lower than what the process is
7 currently achieving under the current inspection system.

8 MR. McCUTCHEON: And I'd like to add to what Dan
9 just said, too. That's the starting point and the logic of
10 how we got to that starting point, but as Tom pointed out
11 before, this is a starting point and the intention is as time
12 goes by that we would be improving those standards.

13 MR. SEWELL: Alvin Sewell with the National Joint
14 Council of Food Inspectors.

15 I've got several questions starting with issues of
16 food safety. We discussed earlier the performance standard
17 for food safety and we have one plant in the pilot project
18 that before implementation of HIMP had five, over ten weeks
19 time had five zero tolerance failures, food safety failures.
20 After HIMP the same plant had 40 failures. The rate of

1 testing for food safety was increased, that's true, and this
2 has been discussed before. The rate of testing increased by
3 four times, correct?

4 MR. McCUTCHEON: It depends upon the period.
5 Either three times or four times.

6 MR. SEWELL: Then the rate of failure increased by
7 eight times in this scenario. And this clearly would
8 demonstrate -- and these failures were not concentrated in a
9 couple of weeks or whatever, this was spread across two
10 months time. This to me clearly exhibits a failure of the
11 plant's HACCP plan concerning a food safety hazard.

12 Why then is this situation tolerated and as of yet
13 no enforcement action's taken place in this case, and the
14 failures in that facility have continued as recently as
15 yesterday.

16 So my question is, why is that allowed under HIMP
17 when it's not allowed under the law of HACCP?

18 MR. McCUTCHEON: Without the actual information I
19 don't want to respond to a particular situation in a plant.
20 If you have some data we need to look at or a situation to

1 look at we'd be glad to do that.

2 I think Dr. Peterson did point out that we do have
3 a process in place. We did have, although you're referring
4 to, if you're referring to food safety issues we did make a
5 change and have improved the process on OCPs over the course
6 of the experiment such that we have a much improved system
7 with the three layers of the ten bird samples, the daily
8 samples, the 25 day sample situation that is there so we can
9 get a good system's view of the plant.

10 MR. SEWELL: That's for OCP. I'm talking about
11 food safety.

12 MR. McCUTCHEON: In the food safety area, we just
13 have to take a look at what plant you're talking about, what
14 information you're responding to. Because without that
15 information, I can't respond specifically to --

16 MR. SEWELL: I discussed that with the agency on
17 two occasions, as a matter of fact, in the month of February.

18 Another issue on food safety issues, and we touched
19 on this before, in which Bill James commented that the
20 presence of the visceral organs was an integral part of the

1 disposition on septicemia and toxemia, yet the verification
2 process in the HIMP model which would make the decision as to
3 whether the process control plan or in this case the HACCP
4 plan is functioning properly, is done without the viscera.
5 There's a lab report, and I'm quoting the lab report,
6 concerning in a HIMP plant where a carcass that was affected
7 with a septicemia/toxemia condition was sent to the lab. The
8 lab report was returned saying that this requires examination
9 of tissues with gross lesions as well as tissues comprising
10 the major organ systems -- cardiopulmonary, urinary,
11 lymphoid, intestinal, et cetera.

12 Trimming away and removal of gross lesions and
13 major organs without the benefit of examination is equivalent
14 to the loss of crucial evidence in making your determination.

15 How then can we make a determination on food safety in a
16 verification process that has no viscera?

17 DR. JAMES: Bill James, FSIS.

18 The question you bring up was considered when the
19 design of verification of the process was drawn up. It is
20 true, I said that viscera are currently used and always have

1 been since this poultry inspection was implemented in
2 determining whole carcass dispositions.

3 The decision was that there would be less of an
4 impact on the normal process if birds were evaluated at the
5 end of the line than if we tried to insert ourselves right at
6 the point at which the dispositions were being made. We did
7 not want to impact the normal process by our presence.

8 The viscera are used on occasion to help us make a
9 whole carcass disposition, but it was the, I believe it was a
10 unanimous decision of all the veterinarians of great
11 experience involved in that decision both in headquarters and
12 the field, that experienced veterinarians, veterinarians who
13 have been trained, can make a fairly accurate disposition
14 without that viscera.

15 The viscera is the ideal, an ideal component to
16 have in making a whole carcass disposition, but if you have a
17 veterinarian there with some degree of training, a good
18 decision can be made without it. We'd rather have it, but we
19 can get by without it especially for purposes of this project
20 and trying not to impact normal process.

1 MR. SEWELL: I'll finish up and then I'll let you
2 off the hook on this.

3 With regard to the OCP checks for, four being
4 records checks, two being actual hands-on checks. We've
5 recently looked at the data from a HIMP plant in the models
6 project, and the red line on this chart indicates the rate of
7 failure of FSIS testing and the blue line on this chart
8 indicates the rate of failure -- I'm talking percentage of
9 tests that result in failure -- that result in failure on the
10 plant's part. These two lines are clearly out of
11 correlation.

12 This indicates a testing inaccuracy on the plant's
13 part, yet four out of the six tests during the day rely on
14 those records or that process control chart to indicate
15 process control in our process of verification. And the
16 National Joint Council has a specific concern about the
17 discrepancy in this data and the reliance upon recordkeeping
18 as a measure of process control.

19 It would seem to me that part of the correlation
20 process with any plant under any inspection system previous,

1 current or in the future should involve a correlation that
2 brings the testing standard of FSIS and the industry in
3 general agreement, in something better than the correlation
4 discrepancy that we're seeing here. So that's a specific
5 concern.

6 Now one more issue I'd like to talk about, John is
7 this issue of staffing in which you said there was a liberal
8 staffing policy for the HIMP plants during this phase, yet
9 we've got a HIMP plant in the models project that is short
10 staffed most of the time, at least by one inspector or more,
11 and in the previous material you discussed the need for
12 employee training, employee supervision, computer training,
13 this direct, the supervisory component of this process. But
14 the supervisor not only was in an oversight capacity during
15 the short staffing scenarios -- this isn't an intermittent
16 situation, this is a chronic situation -- and I've since
17 learned that this is a district policy that says that that
18 short staffing situation is going to be tolerated up until
19 the point that it causes down time for the industry. That's
20 not in keeping with what we're seeing in terms of your

1 material presented concerning the staffing levels, the
2 training intensity, the correlations, the computer training
3 and this kind of thing.

4 Not only did the IIC wind up in the oversight
5 function which took him out of the supervisory function and
6 the ability to move amongst all his subordinate inspectors
7 and overseeing their activity, did you not tell this group
8 that oversight was to be continuous?

9 MR. McCUTCHEON: I did tell this group that
10 oversight is to be continuous, and that is the policy and
11 that is what is being practiced in the plants. My comment
12 was relative to the staffing patterns that we agreed to.

13 Now on a daily basis in any individual plant there
14 can be shortages that show up. And in the staffing that we
15 had, we have a relief inspector that is assigned to all the
16 plants.

17 Now on occasion, you do have situations where you
18 don't have all the staff that was projected to be in the
19 plant. However, the line will not operate without proper
20 oversight inspection being given, and that is the policy of

1 the agency.

2 So you're saying that oversight was given. Now in
3 that case it was maybe given by the IIC, but it's not unknown
4 for IICs to go on the line to give breaks and so forth in
5 traditional plants too, when necessary. It's not desirable,
6 and as we go further into the models project and we have more
7 plants in the model situation and we can share some resources
8 from plant to plant, individual spot situations like that
9 will change.

10 My comments related to the staffing pattern itself
11 and not to a day-to-day type of issue. But in no case will
12 oversight not be conducted.

13 MR. SEWELL: I beg to differ. The IIC was in the
14 oversight capacity, and I have four statements that are
15 signed by inspectors that witnessed this supervisor in this
16 oversight capacity who left the oversight function for a
17 total of 55 minutes, and that line received no oversight.

18 MR. BILLY: Alvin, I think I'm going to intercede
19 here. For the record I think it's important that everyone in
20 the room recognize that the union has filed suit to prevent

1 the agency from pursuing this pilot and obviously trying to
2 achieve the improvements in food safety and other consumer
3 protections that we've talked about today.

4 So you need to be clear to everyone what's behind
5 your effort and your motivation.

6 Secondly, our experience in the past has shown us
7 that your assertions and the assertions of the president of
8 your union, when checked out almost always don't check out
9 and the facts aren't as you report them to be.

10 What I'd like to suggest is that given the fact
11 that you now are appealing the case that you lost in federal
12 court, that you submit this data and this information to us
13 and we'd be happy to respond in writing to each and every one
14 of your assertions and the concerns that you've raised.

15 MR. SEWELL: May I respond to that? You're talking
16 about a lawsuit. I'm not talking about a lawsuit. I'm
17 talking about a condition that exists within the plant now.
18 I'm not even talking about something that's already been
19 settled. And your assertion suggests that this information
20 is less than truthful or less than of honest motivation and I

1 reject that.

2 And I will say this to you and I've said it before
3 and I'll say it to everybody here. I've been personally
4 involved in the HIMP training of the inspectors in this
5 project, and we have told these inspectors in earnest that
6 this is the new system. Interface with the new system, learn
7 the new system, move into the future.

8 So I reject that we have some sort of motivation to
9 discredit this system.

10 We have specific issues, Mr. Billy, that I think we
11 need to address, and I think at the end of this process
12 hopefully we will have a system that's functioning better
13 than it is right now, and that's the intention of my
14 comments.

15 MR. BILLY: Then I strongly encourage you to
16 provide all of that information that you've just referenced
17 and do it formally in writing so that we can respond in kind.

18 MS. BEERS: I'm Allison Beers with Food Chemical
19 News.

20 I just wanted to follow up with a little bit of

1 what Alvin was saying about the zero tolerance data, and I
2 know you said you didn't want to comment on it, John, until
3 you have a chance to look at it and I'll definitely follow up
4 next week.

5 But one thing that I think would be helpful, if you
6 all are prepared to discuss it at this time. I know the
7 agency committed to taking daily salmonella tests in the
8 model plants during the transition phase as they're moving
9 into the model before RTI goes in to collect the model data.

10 Can you all give us a little bit of information
11 about what that salmonella data looks like? Does it
12 correlate at all with this zero tolerance data that Alvin's
13 come up with? Have any of the plants failed the salmonella
14 standard during that time?

15 DR. PETERSON: Yes, we did initiate salmonella
16 compliance in these plants as they've entered into the
17 transition phase. That's been our policy.

18 As each new calendar year comes along we tend to
19 reinitiate testing in most of the plants kind of in synch.
20 So what I'm getting to is this year when we have models

1 plants coming on line, some of them have recently started a
2 salmonella set so there is some overlap there, but they're
3 still under the compliance mechanism.

4 I'm not aware of any of these models plants that
5 have failed a sample set while they're under the project,
6 however, I'll certainly look at that more closely and follow
7 up.

8 Regarding the correlation between fecal and
9 salmonella, in fact in the literature there is a very poor
10 correlation. When you look at correlations between E-Coli
11 counts with salmonella, it's just not there. So salmonella
12 is something that we've seen in our own agency data that was
13 initially in 20 percent of the carcasses. That's our
14 performance standards. It's coming down under HACCP. But
15 there's no direct correlation between zero tolerance failures
16 and salmonella rates in these plants.

17 MS. BEERS: Thank you.

18 DR. LaFONTAINE: Dan LaFontaine, American
19 Veterinary Medical Association.

20 I have more of a statement than a question at this

1 point. I do have some questions later.

2 First of all, I wanted to state for the record that
3 the AVMA has from the beginning supported exploring this
4 concept of turning this responsibility over to the industry
5 provided there is adequate government oversight and
6 verification, and we continue that today based upon what we
7 know and what we've seen.

8 In addition to that statement I wanted to comment
9 on food safety versus OCP-1. That is the birds that are
10 septicemic and toxemic as opposed to those that are sick with
11 airsacculitis or any of the other disease entities.

12 Many of you heard me say this before, but disease
13 processes are a continuum. A sick bird today tomorrow may be
14 toxemic or septicemic. It's a very fine line between those.

15 So we're really talking about a very fine line between a
16 sick bird that is unwholesome and a bird that's been
17 overwhelmed by the infectious process and clearly has the
18 virus or the bacteria throughout its system and needs to be
19 condemned for a food safety reason. It's a degree of
20 pathology.

1 What I'm leading up to, and this may sound
2 parochial, but I mean it with all sincerity. There is a need
3 for veterinarians with the proper skills, both industry
4 veterinarians and FSIS veterinarians to in these slaughter
5 plants, to make sure proper dispositions are being made and
6 that in fact those birds that are septicemic or toxemic are
7 being clearly and consistently eliminated from the
8 marketplace.

9 I'll just stop there, but I wanted to make sure
10 that point was made for the record.

11 I'll have some questions later.

12 MS. NESTOR: Felicia Nestor, Government
13 Accountability Project. I'll try to get a few things out of
14 the way real quick.

15 Based on the chart that Alvin showed with the
16 company records versus not correlating with the plant's
17 records, I'm wondering if FSIS would consider reporting to us
18 at the next public meeting or at the following public meeting
19 on -- I know you want to blind the data because you don't
20 want any of the single plants data out there. Would FSIS

1 consider reporting to us what the plants are reporting for
2 these conditions versus what FSIS is reporting? Because if
3 I'm not mistaken, enforcement of OCP is based on twice as
4 many company records as government records. So consumers
5 will be heavily reliant on company records.

6 I'm not saying we need to know any particular
7 plant's records, but just some sort of comparison.

8 MS. GLAVIN: I think we'll be glad to take that
9 under consideration and look at whether that's doable.

10 MS. NESTOR: Thank you.

11 MR. McCUTCHEON: I just would like to make one
12 comment, because the issue of correlation has come up.

13 It is a very key part of our operation in the
14 plants that correlation between the plant management and the
15 FSIS inspection team take place on a regular basis. And that
16 is something that we do take a look at. We focus certainly
17 on the food safety aspects of that most thoroughly. But it
18 is of concern to us to see that in fact we are on the same
19 page and we do follow upon that on the individual plant
20 basis.

1 DR. HENDERSON: May I respond to that also?

2 MR. McCUTCHEON: Sure.

3 DR. HENDERSON: For the OCP-1, we are taking all of
4 the samples for the day. In a three line plant that would be
5 60 samples. And those are added together to determine
6 whether or not the performance standard had been exceeded.

7 If a plant is not being up front in some way with
8 their data, there is no way that they are going to be passing
9 those 60 bird tests.

10 MS. NESTOR: Are you saying I was wrong that the 60
11 bird sample does not include four company samples?

12 DR. HENDERSON: No, the 60 bird test does not
13 include any company samples that we are doing at the end of
14 the day. Those are all FSIS samples that are taken across
15 the line for that entire shift. Those are added together,
16 and that is where we get the performance standards where we
17 had two out of 60. They have to be able to meet that at the
18 end of the day. If their figures are not correct, there is
19 no way that they're able to meet that performance standard on
20 a daily basis.

1 MS. NESTOR: Okay, I'll look again. I was quoting
2 from the BNA reprint supposedly of FSIS' enforcement policy
3 on OCP and it said that it would be two government samples
4 and four --

5 DR. HENDERSON: There are two per line. So if you
6 have three lines -- You're adding them up over the day.
7 We're adding all of the FSIS samples over the day.

8 MS. NESTOR: Okay. I'll look again at that.

9 MR. McCUTCHEON: All the regulatory decisions that
10 Ken Peterson talked about are based upon only FSIS samples.

11 MS. NESTOR: Okay.

12 MR. GRASSO: There may be a misunderstanding with
13 the pulled records check, but the plant indicates to us in
14 their plan how many samples they're going to take per day per
15 shift. And part of our records check is to number one look
16 at the documentation or the results of their direct bird
17 examination, which has nothing to do with our direct bird
18 examination.

19 In addition to that, to observe the establishment
20 and number one, the selection of those carcasses and number

1 two, the evaluation of those carcasses. That complete record
2 check is done four times a day.

3 To follow up what John said, in our instructions to
4 our inspection personnel, the second paragraph speaks to the
5 importance of ongoing correlation activity between FSIS
6 inspection personnel and the establishment so that the data
7 collected by the two sides on their direct bird examination
8 gets closer together.

9 MS. NESTOR: Okay.

10 I have a question about the IIC being pulled to the
11 line. You're saying that happens in typical, traditional
12 plants, and that it may happen under this system.

13 If I remember from your description of oversight at
14 one of the last public meetings, I thought that the IIC had
15 to be available because the oversight inspectors on the other
16 lines, if they come up with a problem, they are supposed to
17 radio the IIC to come and take care of that problem. So if
18 the IIC is pulled to the line, how is that going to happen?

19 MR. McCUTCHEON: I'm saying that on an individual
20 plant basis occasionally there may be a staffing situation

1 that develops due to a shortage, but that we will provide,
2 the policy is that we will provide oversight inspection for
3 any line to be able to operate.

4 MS. NESTOR: That doesn't answer my question. What
5 would an oversight inspector do on the line if there were no
6 IIC available to come and assist that person?

7 MR. McCUTCHEON: No, the IIC doesn't come and
8 assist the person. This is where we're --

9 MS. NESTOR: Reacts to a problem that the oversight
10 inspector sees.

11 MR. McCUTCHEON: What the IIC has to do, and that's
12 why we have a communication system, so that we all can be in
13 communication with each other in the plant on a continuing
14 basis. So the IIC could be called upon to make a decision if
15 there's a verification check that's going to be needed in
16 another part of the plant to agree to have a verifying
17 inspector go ahead and do that verification check. So he
18 wouldn't have to leave the line to go do that. That's why we
19 have the communication systems in the plants.

20 MS. NESTOR: So that's the only thing the IIC does,

1 really, is decide whether a verification inspection should be
2 done?

3 MR. McCUTCHEON: The IIC has a large, complicated
4 job. He doesn't do all the things -- He also have to
5 evaluate the 25 day samples, et cetera, but he doesn't do all
6 of those all the time. They get done during the course of
7 the day, but it's not a continuous operation.

8 MS. NESTOR: Okay

9 One more question on OCP.

10 Whoever gave the presentation on OCP said that if
11 you fail, for instance, OCP-5 five times in a 25 day window
12 that the window gets restarted again, right? They failed the
13 -- right? And you said the plant must meet this. Must or
14 else what? Do you shut the plant down if they fail six times
15 in 25 days?

16 DR. PETERSON: No.

17 MS. NESTOR: Do you write an NR?

18 DR. PETERSON: No. WE document that on official
19 records.

20 MS. NESTOR: So a record would be made.

1 DR. PETERSON: We inform the plant of those
2 results. If they fail, the example you're giving, six out of
3 25 days, that tells me that their plan is not able to control
4 the process for that OCP even though they've been advised of
5 that along the way.

6 So they must then revise their plan to decide what
7 they need to do to make it work. So we start a new 25 day
8 cycle. And that really gets to I think the earlier question
9 here.

10 We're in the pilot phase. If we get in a
11 repetitive failure mode what is our response? I'm not aware
12 of that occurring to this point, but these are volunteers.
13 The actual long term enforcement strategy for that would be
14 part of the rulemaking process.

15 MS. NESTOR: So at this point there is no
16 enforcement action that consumers can be assured you're going
17 to take if the plant restarts the window every sixth day.

18 DR. PETERSON: The enforcement action is that we're
19 documenting that failure.

20 MS. NESTOR: But all that product is still going

1 out.

2 DR. PETERSON: We have a history, are building a
3 history of repetitive deficiencies. And in the pilot phase
4 if it was an egregious thing where it was continuing
5 continually, we would have to assess that plant's
6 participation in the project. Again, that has not happened,
7 but we have that flexibility because it is a pilot system

8 MR. McCUTCHEON: If we did --

9 MR. MINA: This is Mark Mina, FSIS.

10 We are not going to accept continuous failure
11 without doing anything about it. We expect a plant when we
12 notify them that they failed the first time, we expect the
13 plant will take corrective and preventive action, and we
14 evaluate the effectiveness of the corrective and preventive
15 action. It's not just we tell them about it and they
16 continue to fail and continue to fail.

17 When we would propose a regulation, we would
18 articulate our enforcement position on these issues. This is
19 a pilot. This is a test. And we continually make
20 adjustments. But we definitely take action to make sure that

1 defective product does not leave the plant.

2 MS. GLAVIN: We have also made it abundantly clear
3 to the participating pilot plants that if they cannot perform
4 successfully they will no longer be in the pilot, we will
5 return to traditional inspection in that plant.

6 As Dr. Peterson made clear, under a proposed rule
7 we would have to lay out what would be the penalties. If we
8 move to this as a complete system, there will be no return to
9 traditional inspections so we'll have to make abundantly
10 clear in our proposal what enforcement action we intend to
11 take under that kind of system. But in the pilot, we simply
12 can't, we've made it very clear that we will simply end the
13 pilot in that plant if the plant is not capable of
14 maintaining control of its system.

15 MS. NESTOR: Are the OCP failure records FOIA-able?

16 MS. GLAVIN: I'm sorry, I'm not a FOIA expert, so I
17 simply don't know the answer to that.

18 MS. NESTOR: Does anyone here know whether that's a
19 publicly available record?

20 MR. McCUTCHEON: No. I don't know. I know that

1 has come up, a question has come up and there has been a
2 request of our FOIA staff and they've been handling that, but
3 I don't want to speak for them.

4 Dan had a question a few minutes ago.

5 DR. LaFONTAINE: I guess this is a question for Dr.
6 Engeljohn and Dr. Peterson because I've got a carryover to
7 your two presentations.

8 I'm talking about OCP-1 which is my favorite topic
9 today and those sick birds that I don't want to see go into
10 the marketplace. See if you can follow me.

11 The performance standard in the HIMP plants for
12 OCP-1 is what you've, it was zero but now I see that you've
13 settled on 1.7, so I can follow that.

14 And on FSIS verification the maximum allowable
15 defects are two birds out of 60, or that would equate to four
16 percent, three percent. So that I, although I don't like to
17 see that percentage, I guess I can say that that's real world
18 for a chicken plant.

19 Here's where my concern is. In the slide that Dr.
20 Peterson presented, additional OCP verification. It says

1 that for OCP-1 a maximum of nine carcasses with OCP-1 defects
2 per shift.

3 Let's assume best case scenario that those nine
4 were found in 60 birds. A little math tells you that we're
5 allowing up to 15 percent based upon that sample size, 15
6 percent of the birds to be passed with OCP-1 defects.

7 Maybe I'm missing something, but that doesn't pass
8 the common sense test to me when we're talking about 1.7 or
9 maybe three or four percent. It appears a giant leap in the
10 tolerance level for animal disease birds.

11 So maybe you can explain to me the logic on that.
12 If you can't, then I'd ask you to take a hard look at that
13 tolerance.

14 MR. GRASSO: If you take a look at the finished
15 performance standards sheet that we provided to you, you can
16 see for trimmed non-conformance table, that we would be
17 allowed 30 percent on the finished performance standards,
18 three out of ten birds for airsac.

19 And in the data that we collected of the 16 plants,
20 the 16th position was 6.4 and one plant had a 15 percent rate

1 on a given day under the current system.

2 DR. LaFONTAINE: Let me follow up and say that what
3 you're telling me is that you're going to allow any
4 individual plant to perform at the worst level that any plant
5 performed during the baseline.

6 MR. GRASSO: No, what that tells you, the nine in
7 60 tells you that if a plant ever gets to that point we will
8 require them to be at post-chill, sample 60 birds. If they
9 fail there, they are at rework.

10 DR. LaFONTAINE: But that still equates to a
11 failure rate of 15 percent before there's any action taken.

12 I'm going to drop it. I feel that if you're going
13 to have a 1.7 or a two or a three percent, let's make that
14 the tolerance across the board and not allow it to go up to
15 15 percent on individual occurrences. It just doesn't pass
16 the common sense test for birds that are unwholesome.

17 MR. GRASSO: From my perspective, so long as you
18 know that the current system allows for 30 percent on a
19 regular standard, our regular standard is two in 60 which is
20 the 1.7.

1 DR. LaFONTAINE: I realize that, but you're front
2 up saying you're going to have a tolerance of 1.7 or a
3 maximum allowance of two birds out of 60, and all of a sudden
4 the additional OCP verification which sounds great really is
5 allowing 15 percent, and I can't buy that.

6 MR. GRASSO: No, it's not.

7 DR. LaFONTAINE: Yes, it is.

8 DR. PETERSON: Mike, let me maybe add something
9 here.

10 As Mike said, the 15 percent is based on data that
11 we gathered in the plants. That is a number that we are
12 working with today and that would be the number we would
13 propose in a rule. If that's a number that's not tenable to
14 the public, then we would certainly look at that number.

15 But I would add two other things. When we develop
16 a new inspection system, I think there is of course many
17 things we need to look at but it should do at least two
18 things.

19 It should enhance food safety, and I think clearly
20 we've shown that.

1 I think it should also not make product less safe -
2 - safe meaning foodborne illness. And we have this level of
3 nine out of 60 because that's when the plant goes into a
4 rework mode where you have additional handling of product,
5 products diverted from the normal channels, and that
6 additional handling may make the product less safe. So at
7 what points do you jump from monitoring the process and
8 putting them in a situation where you have additional
9 handling? And that's where that number comes from.

10 But again, it's a number that's out there today.
11 We'd be happy to reconsider it.

12 MS. HAUTER: My name is Wenonah Hauter. I'm with
13 Public Citizen.

14 I am trying to understand if you can't enforce
15 compliance with 16 plants in a pilot project, and that's not
16 built into the project, then how could you ever hope to do it
17 if this is a standard that's adopted by the whole industry?

18 MS. GLAVIN: We absolutely are enforcing compliance
19 on a daily basis in every single plant. We are putting the
20 mark of inspection on product, and that is done only if the

1 product is not adulterated.

2 What I'm talking about is setting compliance
3 standards that everyone understands and knows and that has to
4 be done through a rulemaking process. While we're in a pilot
5 process, we simply move them out of the pilot if they cannot
6 perform according to our standards. That has not occurred.
7 We have not had any instances of plants even coming close to
8 that. But should it occur, our response will be to end the
9 pilot in that plant.

10 That's not an enforcement issue. That's simply
11 making sure the product remains, that we remain convinced
12 that the product is under control, that the system is under
13 control. But we do enforce every day, that's why we have
14 inspectors in plants.

15 MS. HAUTER: I'd like to make a comment.

16 MR. McCUTCHEON: It's getting very close to 3:00
17 o'clock which is when we said this is going to be finished,
18 and Maggie had a wrap-up statement to make

19 You had a comment to follow up on that? We can
20 take that and then we should -- go ahead.

1 MS. HAUTER: I just wanted to speak as a consumer a
2 moment, and I know that most of the people in this room are
3 technical people and that I may be breaking the orthodoxy
4 here, but I'm really disturbed by this meeting. I think it's
5 a real example of why the many constituencies who should be
6 involved in this process aren't sitting here today.

7 This meeting has been most a dog and pony show
8 using a lot of jargon and a lot of statistics that people
9 can't understand. But the truth is that you can't dress up
10 scabs, sores and tumors even if you call them OCPs and
11 Americans, if they knew they were eating them, wouldn't want
12 to eat them, and they'd be shocked that in this pilot project
13 more of the stuff is going out to consumers.

14 It seems like the basic issue hasn't even been
15 discussed today, and that is whether we should be privatizing
16 meat inspection or not. I think that's a question that
17 should be taken on the road.

18 I know it's naive to talk about our democracy, but
19 the USDA should be going out and presenting this to the
20 American people for what it really is and talking about the

1 real issues. And it's real clear to me why the agency has
2 now legalized irradiation, because you're going to need it.
3 Meat's going to get dirtier, and you're basically going to
4 mask the problem with irradiation. The two things are very
5 closely connected.

6 MS. GLAVIN: Thank you very much for that comment.
7 I think it's real important to look around this room and
8 recognize that my best estimate, 90 percent of the people in
9 this room have been in this project from the beginning, have
10 been through every public meeting, have had extensive ability
11 to comment. This is another attempt to provide a full
12 explanation of what is going on. It's not whitewashing
13 anything. We're putting out the data. We're showing where
14 our current thinking is, which way we want to move. We will
15 go through a full notice and comment rulemaking on this
16 project in the future, and we don't want that notice and
17 comment rulemaking to come as a surprise to anyone. That's
18 why we continue to put out the data, continue to put out our
19 current thinking.

20 Our current thinking is just that. Where we think

1 this project is going at the moment based on the data we
2 have. We will continue to provide data as it is available to
3 make it publicly available and publicly discussed, and we
4 will go through a rulemaking process.

5 I'm not aware of any constituency that needs to be
6 in this room that hasn't been in this room or similar rooms
7 throughout the past three years.

8 John do you want to see if there are a few last --
9 I think we can run over a little bit.

10 MR. McCUTCHEON: Take some more questions?

11 MS. GLAVIN: Yeah. I think there are some people
12 who --

13 MS. FINELLI: Mary Finelli with United Poultry
14 Concerns.

15 I'm wondering why ingesta and intestine tissue are
16 considered other consumer protections not in the food safety
17 category?

18 DR. JAMES: The categories that are not listed in
19 food safety are not there because they are not considered to
20 be reasonably likely to contribute to the bird in a foodborne

1 illness. Those categories have been identified and put here
2 for the purpose of presenting to you what our current
3 thinking is.

4 We believe based on the information that is
5 available to us in the literature, at least that we've seen,
6 that these are the appropriate categories for these items.
7 And I will repeat what I said in my presentation, if someone
8 has some new information available to us that they would like
9 for us to consider, we are happy to receive it.

10 DR. ENGELJOHN: In my presentation I did identify
11 that we listed ingesta as a specific category for which we
12 collect data. The reason is that we do have a special
13 interest in that particular category. You should expect
14 activity related to the opportunity to deal with it on a
15 separate issue from this proposed rule on HIMP related to
16 ingesta sometime in the near future.

17 So we do have a special interest in ingesta. At
18 this time we don't have the science to support it as being a
19 food safety issue. So we've categorized it in a separate
20 situation.

1 MS. NESTOR: Just so that I can understand, make
2 sure that I understand how these two charts work together,
3 let me just ask this question.

4 If we're looking at OCP-2, sores, what this means
5 is that in 75 percent of the plants more than 50 percent of
6 the carcasses have sores on them. Do I get that right?

7 DR. ENGELJOHN: The chart that you're referring to,
8 the large chart that you received as a handout just now that
9 puts all 16 data points into the situation identifies them
10 based on rank. So that doesn't identify the percentage of
11 defects within each of those plants. If on that large chart
12 you look on the left hand side, this doesn't represent OCP-2
13 as an example, but one plant may have had two percent for
14 that particular defect. Another one may have had three,
15 four, five, six, on up to the 12th point. So they're ranked
16 according to the number of defects by plant.

17 MS. NESTOR: But the performance standards, am I
18 correct if the performance standard is based on a 75
19 percentile, am I correct that what it means for OCP-2 is that
20 52.5 percent of the carcasses have sores?

1 DR. ENGELJOHN: No. That means that that standard
2 was set at the 12th plant. Again, rank them from plant
3 number one has the lowest number of defects for that
4 particular OCP category. Plant number two has a bit higher
5 or may have the same, but it ranks up to plant number 12
6 which in this case has 52.5.

7 So the other 11 plants may have lower than that.

8 MS. NESTOR: I see, okay. Sorry.

9 MS. GLAVIN: I'm going to wrap up now, if I could.

10 Dan you have one last thing? Okay, go.

11 DR. LaFONTAINE: Thank you.

12 This morning I asked the introductory question
13 about FSIS' training for their inspectors and veterinarians.
14 That was kind of a loaded question because my followon
15 question is related to industry.

16 My understanding is as far as the elements of the
17 plan, the PC or process control plan or HACCP plan, that
18 currently there is no requirement to address the training
19 issue in the plans from the model plants.

20 I think that is a mistake.

1 The bedrock of any procedure or system, I don't
2 care if it's working with the fast food industry or model
3 HACCP or whatever is to have a baseline procedure or training
4 so that you can accomplish the task at hand.

5 Now I'm not saying that there should be dictated
6 what kind of training. I feel that the way to approach this
7 is the following.

8 First of all, the plants that are now involved are
9 volunteer plants and one could assume that they're proactive
10 and progressive, and I've talked to some of the plant
11 management and they in fact have training plans so they can
12 be successful. But I'm looking beyond, that if this goes
13 across, turns out to be successful and is allowed industry
14 wide, that we need to have a system in place that will assure
15 us that when they take this task at hand, that they have a
16 part of their bedrock certain procedures in writing on how
17 they're going to train their individuals and in turn that
18 FSIS can verify that they're meeting what they say in their
19 plan.

20 So I guess if I could summarize, I would ask that

1 FSIS again look at what are you going to put in place as a
2 part of this overall system that assures that in the out
3 years if this is successful, that you have a system that is
4 solid and doesn't fall apart for those plants that don't
5 accomplish training or have something very weak.

6 Finally, I want to mention that our friends from
7 Canada, the Canadian Food Inspection Agency, who published
8 their modernized poultry inspection program, it was put out
9 for review by FSIS, have very extensive comments on this very
10 issue. In fact a whole document that they require. And I'm
11 not trying to say right and necessarily we're wrong, but just
12 to read one sentence. "Establishments' operators are
13 required to have a written training program which must
14 include a HACCP system for each position, trained person
15 theory," et cetera.

16 I won't go through all the details. But I feel
17 very strongly that you're missing the boat if you don't take
18 a hard look at that.

19 MS. GLAVIN: Thank you very much. I agree
20 absolutely with you that a plant will not succeed if it

1 doesn't have a well trained workforce, and we will take your
2 comments on suggesting that we require some training under
3 very careful consideration as we go through this, and I thank
4 you.

5 I want to thank everyone today for their sticking
6 with this. There was a lot of information presented. This
7 is about the third time I've seen some of these presentations
8 and I learn something new each time I see them, because they
9 are really packed with information.

10 I hope you will keep the handouts and go through
11 them as you continue to think about this so that we will have
12 the benefit of your added comments as you give it additional
13 consideration.

14 We are planning this summer to have yet another
15 session, so plan your summer vacation around this. We
16 anticipate this summer that we will be in a position to share
17 some actual models' data, not baseline data but models' data
18 this summer. We think we'll be in a position to do that so
19 we will have a meeting to do that, and also to cover other
20 subjects as appropriate.

1 We, as I said, are committed to using the data as
2 we go through the project, and to using the input that we
3 receive in these meetings as we go through the project and
4 also to go through should we move to rulemaking, to go
5 through a notice and comment rulemaking should the data
6 convince us that we do want to move forward with this
7 project. That notice and comment rulemaking would include
8 such things as how we use the data to set standards and
9 that's been perhaps the subject of most discussion today. So
10 that would certainly be part of any rulemaking.

11 Rulemaking would also include such things as
12 enforcement strategies, et cetera.

13 So with that, I'd like to thank you for your
14 attention and for your input and your active participation,
15 and for spending your valuable time to help us as we work
16 through this project.

17 I also would like to thank the presenters who have
18 done yeo-person's work as we've gone through the day. I
19 would also like to thank our two moderators, John and Dannie,
20 who I think helped to illuminate some of the issues as we

1 went through the presentations.

2 Thank you very much.

3 (Meeting adjourned at 3:10 p.m.)

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