

U.S. DEPARTMENT OF AGRICULTURE
ANIMAL & PLANT HEALTH INSPECTION SERVICE

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BIOTECHNOLOGY REGULATORY SERVICES
STAKEHOLDER MEETING

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WEDNESDAY,
NOVEMBER 18, 2015

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The Biotechnology Regulatory Services Stakeholder Meeting met in the Conference Room, 4700 River Road, Riverdale, Maryland, at 9:00 a.m., Dick George, Moderator, presiding.

PRESENT

DICK GEORGE, Moderator
SID ABEL, APHIS Assistant Deputy Administrator
for BRS
JANET BUCKNALL, APHIS Associate Deputy
Administrator for BRS
MIKE FIRKO, APHIS Deputy Administrator for BRS
MICHAEL MENDELSON, Senior Regulatory
Specialist, Microbial Pesticides, EPA
ROBERT MERKER, Supervisor, Regulatory Group B,
Office of Food Additive Safety, Division
of Biotechnology and GRAS Notice Review,
FDA
JOHN TURNER, Director, BRS Biotechnology Risk
Analysis Program

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

2 9:15 a.m.

3 MODERATOR GEORGE: I apologize for the
4 delay. We think it's very important that the folks
5 who are online who wanted to attend the meeting also
6 have the opportunity, so it's worth taking a few
7 minutes to figure that out. So thanks so much.

8 Good morning. I'm Dick George,
9 Communications Branch Chief here at Biotechnology
10 Regulatory Services. I'm glad to welcome you to
11 our 2015 BRS Stakeholder Meeting. This is our
12 annual opportunity to look at the year past and the
13 year ahead from a biotechnology regulatory
14 perspective.

15 First, some small but important
16 details. Please set your cell phones on vibrate
17 or turn them off. There's coffee and water on the
18 table in the back of the room. Down the hall, out
19 this door to the right past the elevators and then
20 the first left is our cafeteria if you'd like a
21 different beverage or something to eat during the
22 break.

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1 You should have received an agenda of
2 a list of local lunch spots when you registered this
3 morning. Our agenda is a little different this
4 year. The meeting itself will end at noon. This
5 afternoon, some of you have signed up to talk
6 individually with BRS leadership about our current
7 thinking regarding our regulations -- if I stop
8 talking that sound goes away -- which you'll hear
9 a lot more about this morning.

10 If you haven't signed up and decide this
11 morning that you would like an individual session
12 this afternoon, please go to the registration desk
13 to sign up during the morning break.

14 We do have a few slots left. We're
15 giving preference to those who are here in person,
16 but no one will be excluded. If you're on our
17 webcast and would like to schedule an individual
18 session by phone, please send us an email with your
19 contact information and we'll contact you to
20 schedule the session either today or in the next
21 week or two. Send your email to
22 brs.stakeholders@aphis.usda.gov.

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1 Today we're webcasting, so we have to
2 remember that we have people who are on the phone,
3 not visible, but nevertheless very much a part of
4 our meeting. I would ask all attendees that are
5 here today to wait until we get a microphone to you
6 before you make a comment or ask a question so that
7 our webinar audience can hear, and I would ask
8 everyone to please identify yourself and your
9 organization, if you represent one, before you
10 speak.

11 We have a court reporter here today who
12 will produce a complete transcript of this meeting,
13 and that transcript will be posted to our website
14 within a few weeks. That's why we need you to
15 please identify yourself when you speak and spell
16 your name, so our transcript will have it in
17 writing.

18 In addition, today's presentations
19 will be available on our website within the next
20 day or two.

21 We would ask that you please hold your
22 questions until the speakers completed the

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1 presentation. We've allowed time for questions at
2 the end of each presentation. Plus, your question
3 may be answered in the balance of the presentation.
4 Then, for those of you in the room, please wait for
5 a microphone before you speak. If you're online
6 and you'd like to ask a question, on your telephone
7 keypad press "1" and then "0." This will alert our
8 webcast moderator that you'd like to speak, and
9 we'll unmute you and invite you to ask your
10 question. So for our online attendees, to ask a
11 question, press "1" and then "0" on your telephone
12 keypad.

13 One last thing. After the meeting,
14 you'll receive an email survey. Please take a few
15 minutes to fill it out. Your input matters to us.
16 And there's also a comment box in the back of the
17 room. If you'd like to write us a personal note
18 or whatever, place it in the box and we'll be sure
19 to receive it.

20 So with that, we can get started. At
21 this time, I'd like to introduce the APHIS Deputy
22 Administrator for BRS, Mike Firko.

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1 MR. FIRKO: Thank you. And thanks to
2 everybody for joining us here today. I think this
3 is the largest group we've had, at least for a
4 while. So I'm going to be talking to the group
5 twice today. First, this morning, I'm going to
6 talk about things that happened during 2015 and
7 then a little bit on what we have in 2016 and then
8 a second session just about our current thinking
9 of where we'd like to go with new regulations.

10 So, of course, the past year has been a very
11 interesting year, and it's always interesting in
12 biotechnology. I have now been, I actually started
13 at APHIS in biotechnology. Then for a few years in
14 the early 2000s, my biotech function was in plant
15 protection and quarantine. At that time, it was
16 one of nine functions that I had. That's because
17 when the biotech function came back to PPQ and it
18 became abundantly clear pretty quickly that they
19 hadn't all been solved, so BRS was created.

20 (Whereupon, the above-referred to
21 matter went off the record at 9:22 a.m. and resumed
22 at 9:22 a.m.)

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1 MR. FIRKO: So I just wanted to start
2 with a very brief down memory lane. In the 1970s,
3 the National Institute of Health was one of the
4 first organizations to come out with anything
5 public from the government on biotech. This is a
6 non-regulatory program. They put up guidelines.
7 The way that they have an influence is that a lot
8 of medical research in the United States is done
9 by NIH. And if you want to get your grant money
10 from NIH, you abide by the regulations. It's not
11 a regulatory program, but it's a way to have an
12 influence.

13 In 1986, the Executive Office of the
14 President came out with this document. It laid out
15 a bunch of solutions and tenets, and it described
16 who the different players were in the area of the
17 regulation of biotechnology.

18 And then a year later, the USDA came out
19 with its first regulations, 7CFR 340. I may slip
20 into the 340 jargon. Whenever I say 340, I'm
21 talking about our regulations.

22 The regulations have remained

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1 essentially the same in terms of what is the basis
2 of the regulation was to establish authority.
3 There were a couple of tweaks in the 90s that
4 created a notification process, and then in '97
5 that was expanded.

6 So what do we do in biotechnology
7 regulatory services? We have four primary
8 operational things that we do. There's a bunch of
9 other little things that we do: international
10 engagements, dealing with FOIA requests, lawsuits,
11 and things like that. But the four primary
12 operational issues are we answer regulatory status
13 inquiries. This has been happening since 1987,
14 and, for the first 10 or 15 years, lots of decisions
15 were made about regulatory status over the phone
16 or through emails. There's some records from
17 those days. Not all of it was codified. Today,
18 starting in, well, before 2011, we created a very
19 specific process that I'll talk to you about in a
20 few minutes.

21 We evaluate applications for regulated
22 activities, such as importation of regulated

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1 articles or moving regulated articles, whether it
2 be a plant or an arthropod. We have a compliance
3 program where we make sure that the conditions of
4 the authorizations are being followed. We conduct
5 inspections and enforcement activities, and we
6 consider petitions for non-regulated status.
7 This last one seems to be the one that gets most
8 of the attention.

9 We, like I said, for the last five
10 years, we've been putting all of our decisions
11 related to Am I Regulated on our website. You can
12 get the specific address for that on the back of
13 my business card or on a version of this there's
14 about 100 of these cards on the back. And if you
15 type in that you are directly sent to the Am I
16 Regulated page and see all of the incomings and
17 outgoing responses for the past five years. In
18 '13, six of these were answered. In '14, three.
19 This year we've done ten so far.

20 Our permitting program continues to run
21 very efficiently. The regulations state time
22 frames regarding our performance, and we hit those

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1 performance measures 90 percent of the time.

2 To give you a feel for the size of the
3 permit notification, it's a pretty busy slide, but
4 we have notifications here, permits on the lower
5 end. In each case, it lists how many requests did
6 we receive and how many of those were authorized.
7 And then the three regulated activities in columns,
8 importation only, interstate only, and release,
9 which may also include interstate.

10 So one of the things that you see is,
11 under notification, the numbers across, 322, 396,
12 436, are fairly equal. You'll see that, on
13 average, 9 percent are not authorized, 91 percent
14 are authorized. When you get down to permits, you
15 see that the distribution across the three types
16 of regulated activities is quite different, where
17 there are four times as many authorizations for
18 field use as there are for importation.

19 Now, let me call your attention to two
20 numbers here, this 391 and the 181. Those are
21 field uses authorized under notification and
22 permit, so that number is 572. But since there can

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1 be multiple release sites under each
2 authorization, regardless of whether it's permit
3 or notification, the number of sites that were
4 actually analyzed by us is nearly 12,000, and that
5 involved nearly 50,000 phenotypic designations,
6 crop phenotype combinations.

7 So if you just look at the number of
8 authorizations that are grouped by biotechnology,
9 it really doesn't do justice to the fact that
10 they're doing an awful lot of review of an awful
11 lot of different genetic constructs.

12 I mentioned this, I think, the last
13 couple of years. So despite the fact that we
14 authorized 11,938 release sites, only about
15 one-third are ever planted. That's 25 to 33
16 percent usually. So we're spending a lot of time
17 doing National Environmental Policy Act review on
18 all of these 12,000 sites, including a lot of review
19 for a lot of different reasons, and then they're
20 never planted. So that takes a lot of our time.

21 On the compliance side, we have been
22 focusing in 2015, starting in 2014, on our

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1 compliance program. I mean, we did solve the
2 petition issues. I mean, I'll show you some of the
3 petitions which were taking an enormous amount of
4 our time and we had a big backlog. That problem
5 is essentially gone. So we were able to focus more
6 on our compliance program.

7 Now, the staff realignment that I refer
8 to here takes a couple of different, it's shown in
9 a couple of different ways. I'll say more about
10 that in a minute.

11 So in 2014, we started doing more
12 inspections. The number of plantings that we
13 actually visited is a fraction of the ones that are
14 authorized. It's actually not a large fraction
15 either. So we thought it would be helpful to get
16 on to field a little bit more. I had a nice
17 invitation to go out to the Panhandle of Texas and
18 visit the site. Thank you.

19 '15 is not over, but the numbers look
20 like they're going to be similar, about 1700
21 inspections this year. But we're going through a
22 transition. Anybody who is involved with

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1 receiving permits or notification knows that the
2 group that is called Biotechnology Regulatory
3 Services that issues the permits and does follow-up
4 is not the same group that typically goes out and
5 does the field inspections. And up until about
6 2014, about 80 percent of those inspections were
7 done by a different part of APHIS called Plant
8 Protection and Quarantine. And the reason that we
9 had gotten to that point was because Plant
10 Protection and Quarantine has people in all 50
11 states and in all territories.

12 It became pretty clear to me that we
13 should look at a different model for how we do
14 inspections. One of the issues was a side duty for
15 many of these folks. In some years, they weren't
16 able to do any inspections whatsoever. In some
17 years, many of them did one. And those folks never
18 had an opportunity to excel at their job because
19 they just weren't doing the job very often. I
20 mean, if you do something once a year, once every
21 two or three years, it's hard to do the best job.

22 So we had started a transition in BRS

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1 where we are hiring regulatory analysts who have
2 as part of their job field inspections. They do
3 inspections for less than half their time, and then
4 they come back to the office and analyze the
5 results, write the reports, figure out what all
6 that means. And in 2015, we had gone in BRS from
7 doing about 5 percent of the inspections to about
8 40 percent of the inspections. The state
9 departments of agriculture do some of the
10 inspections, about 10 percent. State departments
11 of agriculture will probably continue to do about
12 10 percent, but the proportion that were conducted
13 by folks who report to me in the chain of command,
14 as opposed to a different part of the agency, is
15 going up. And I hope to get that number up to
16 around 70 percent or 80 percent, not including the
17 ones that the state does.

18 I'll have a slide about a business
19 process improvement that we've been working on.
20 Notice the "S." This is the compliance business
21 process improvement. It's called "S" for
22 signature because the Secretary of Agriculture was

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1 personally interested in this, and we report
2 directly to the Secretary on how we're doing on our
3 improvements in our compliance program.

4 I'll also talk about GAO engagement
5 that is nearing completion and an OIG audit that
6 has been published already. So the SPI, the
7 primary objective, as it shows there, is to do a
8 better job drafting reports. And here are the
9 current performance goals that we have for doing
10 that. There's a number of different ways that
11 we're going through an inclusion process with new
12 SOPs, do work instructions. We're going to do a
13 better job of managing the data that come in as a
14 result, and we're going to feed that information
15 more efficiently into decision-making for
16 authorizations and other things.

17 So the GAO -- I'm sorry. That's
18 Government Accountability Office. It's not part
19 of the Executive Branch. It's an outside group on
20 the Executive Branch, and they don't use the term
21 "audit." They use the term "engagement," but it
22 kind of feels like an audit. We have completed the

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1 exit conference, which means the investigative
2 agencies who were involved in this met with GAO.
3 They covered us with more questions if they had any
4 questions left after all the questions we answered
5 over the last year. But they still asked
6 questions, and they made it very clear in the exit
7 conference that their primary issue with APHIS was
8 our compliance program. And they definitely
9 support change in our regulations as a means to
10 improve our oversight program.

11 So the OIG audit, this is the USDA
12 Office of Inspector General. It's kind of like
13 USDA's internal affairs. The most refreshing
14 moment I had within OIG, a manager at one of our
15 entrance interviews, he said, "Look, I just want
16 to be clear. I'm not going to say anything good
17 about your program. That's not our job. Our job
18 is to find problems in your program and help you
19 fix them." Well, we can do that.

20 So the report from OIG was published in
21 October. It had 13 recommendations. It's
22 available on the web. You can find it real easy.

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1 You can Google "USDA OIG" and it gets you right to
2 a place and you choose audit reports and I think
3 the first one is it. It's real easy to find.

4 So I'm going to give you a quick summary
5 of the 13 recommendations. They not only want us
6 to publish the regulations, they want the date.
7 They're very specific about that. There are still
8 elements of the 2005 audit that remain open because
9 it was made in response to their 2005 audit to make
10 new regulations, so we haven't done that yet. So
11 some of the recommendations in the current audit
12 are do what you said you were going to do ten years
13 ago.

14 It's clear that they're telling us that
15 we need better oversight about what we're planting,
16 otherwise known as environmental. They tell us we
17 need to improve our incident management work. We
18 need to be -- when we're issuing authorizations for
19 regulated activities, we need to look at the
20 history of the requester and make that part of the
21 decision. Specifically, if there are multiple
22 incidents or episodes of non-compliance, that

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1 should weigh into the decision about whether to
2 issue a new authorization.

3 In several of the recommendations, OIG
4 is interested in our new IT system, and Janet will
5 be talking about our new IT system. And they're
6 also interested in us having a better petition
7 tracking system. So those are the results of the
8 OIG audit.

9 Now, our response to OIG, most of which
10 you'll see in the report because the report that's
11 on the web includes our responses, first of all,
12 we agree with all the recommendations. I mean,
13 they got into our program and into all of our
14 databases. They saw exactly what we do, what we
15 don't do. Many of these things that they had
16 recommended we do we had already started to work
17 on. We agree with the recommendations.

18 And the three primary actions we are
19 taking to address those recommendations: we are
20 creating new regulations. That's going to resolve
21 several of the recommendations. We're going to
22 create a new IT system for managing our business.

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1 In other words, issuance of authorizations. One
2 of our biggest challenges in BRS and in other
3 programs is that there's been this conception that,
4 once you issue a permit, you're done. Well, of
5 course, for us, an awful lot of what happens in IT
6 systems, which is basically a workflow manager, we
7 come in in the morning, we pull the system up. It
8 says, okay, you've got these permits to review,
9 you've got these inspections to do. It's a
10 workload manager. There are lots of things that
11 we can't do in our current system, and if we want
12 to do any tweaking to the system at all we're
13 talking lots and lots of money. So we need a new
14 system that we can be in better control of. And
15 OIG saw immediately that we needed a new system to
16 perform many of the functions that we need to
17 perform and the signature process improvement,
18 which I already talked about.

19 Now, this is something that I wanted to
20 talk about today because we just went through a
21 public comment period and got a lot of interest from
22 all sides, as is typical with anything biotech.

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1 It's interesting that these issues are so
2 polarized, and whether we're publishing a notice
3 or a proposed rule or just putting anything out for
4 comment, we really get, it's a bipolar
5 distribution. There's a group of people who don't
6 think that we should ever authorize anything
7 related to biotechnology, and there's another
8 group who thinks we should get out of the way
9 completely, and there's really not very much in the
10 middle.

11 So the current status of the proposal,
12 there's the title of the proposal, and this is
13 simply to say instead of authorizing outdoor
14 plantings of genetically-engineered wheat under a
15 notification process, they would be authorized
16 through a permitting process. It was published in
17 September. The comment period closed in October.
18 The comments we received, 167 submissions. But
19 wait for it: how many commenters do you think that
20 was? Obviously, some of these submissions
21 represented input from multiple different
22 individuals.

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1 The single largest comment was you
2 should not allow any outdoor planting of
3 genetically-engineered wheat, period. But if
4 you're going to, do it under permit. Thirty-five
5 were supportive of the move from notifications to
6 permits but with strict permit conditions.
7 Fifteen supported continuing use of notifications,
8 and nine are just difficult to categorize.

9 So just like with the 2008 proposed rule
10 where the comments were very polarized but
11 everybody pretty much agreed that we didn't do a
12 very good job of explaining ourselves, that
13 happened here, too. People seem to agree that we
14 didn't do a very good job of explaining why we were
15 doing it. So I'm going to spend some time doing
16 that.

17 First of all, I have a handout that's
18 going to come out. I think we might have one for
19 everyone. And what this shows, this is a two-sided
20 list of things that currently require a permit, as
21 opposed to a notification, for field trials.
22 Also, please note that some of these listings are

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1 very large groups of things, not single species.
2 For example, at the bottom of the front page, it
3 says all fruit trees, e.g. apple, citrus, banana,
4 papaya. The next one says all other trees.
5 That's a lot of species right there. Those all
6 require permits.

7 And this is to put into perspective,
8 because I was at the wheat meetings the day before
9 last, I guess it was, I met the National Association
10 of Wheat Growers and U.S. Wheat Associates, and
11 somehow they had gotten the impression that wheat
12 was the only one. Well, no, wheat is not the only
13 one.

14 So other times that we may issue permits
15 instead of notifications, we do it on a
16 case-by-case basis. And this list, things are on
17 this list for a variety of different reasons. Some
18 of them were by request, some of them are based on,
19 most of them, actually, are based on risk. You see
20 that the issue of being a perennial, as opposed to
21 an annual, is part of the decision. Some have
22 always required permits, some have been added to

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1 require a permit. So it's quite a mix of things.
2 But case-by-case, we have, in many cases over the
3 past few years, moved from notification to permit.
4 We've done it many times over the years.

5 Currently, many species that don't
6 require a permit, like soy and some of these other
7 things, are authorized under a permit if they are
8 a large-scale planting because larger-scale means
9 it's more difficult to manage persistence and
10 dispersal. And like I said, we also sometimes get
11 requests specifically to be under permit because
12 of the benefits that come with that.

13 Again, to put this into perspective, in
14 2014, we issued a grand total of 21 authorizations
15 for field trials from only 11 different entities.
16 So, clearly, some of those authorizations were to
17 the same group. So 11 entities are potentially
18 impacted by this.

19 Long before we published the notice in
20 the Federal Register, we contacted all of these
21 entities. We've been in contact with them for many
22 months. I don't think it would be fair to say that

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1 they all like the idea, but I think they understood
2 the need and why.

3 So why now? Well, after the Montana
4 wheat discovery and announcement, Senator Tester
5 from Montana started the GAO study that I talked
6 to you about. There is an ongoing USDA OIG audit.
7 Both of these groups are saying you need to tighten
8 up your management of field trials. And what's the
9 most visible one we've got right now? That would
10 be wheat, wouldn't it? It's been suggested that
11 we wait until we have new regulations. Well, we
12 proposed in 2008 that we were to do away with the
13 notification process and only have permits, and
14 we're probably going to propose that again.

15 But we're not going to have any
16 regulations for three or four or five years. Our
17 current regs are 28 years old. We tried in 2008.
18 So it takes a long time to move regs in the system.
19 So in the interest of protecting the U.S. wheat
20 industry, we don't feel we can wait.

21 So this is an interesting topic. After
22 the second public announcement of the detection of

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1 genetically-engineered wheat where it wasn't
2 supposed to be and working with the Secretary's
3 office and the Undersecretary's office, a plan was
4 put together to basically start inspecting all
5 field trials of genetically-engineered wheat. So
6 we've been doing that. Let me just say we've been
7 surprised of the cavalier attitude that we've seen
8 at some of these locations.

9 Also why now? This is a good time to
10 increase confidence in biotech wheat because what
11 I'm hearing from the wheat industry is that they
12 are very interested in moving
13 genetically-engineered wheat because of the
14 benefits to the marketplace. You know, after the
15 Oregon wheat announcement, I spent a couple of days
16 in a room with Japanese negotiators, and they were
17 going to shut down all trade of U.S. wheat.
18 Pacific Northwest wheat growers were very
19 concerned about this.

20 What the Japanese wanted to hear from
21 me was that we had very tight control over the field
22 trials of genetically engineered. I didn't have

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1 much to give them because these field trials are
2 under notification, and I'll show you some of the
3 details about what that means to be under
4 notification.

5 So we got out of that meeting, and the
6 U.S. wheat continued to flow, but those were not
7 three fun days with the Japanese regulators.

8 So, again, why wheat? When we have
9 these situations like we had with Oregon and
10 Montana, it puts our wheat exports at risk.
11 Regardless of what you think about genetic
12 engineering or biotechnology, our trading partners
13 care about it. So a big part of our
14 decision-making was protecting the U.S. wheat
15 export market.

16 The primary science issue is that it
17 became more clear to us in working in both the
18 Oregon incident and the Montana incident that one
19 of the special things about wheat, and it's not only
20 wheat but I think it's fair to say that it was
21 underappreciated, is that in a dryland situation
22 with no till, you can have wheat seeds sitting in

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1 the soil for years. So if you have a two-year
2 monitoring program for volunteers, there may not
3 be any volunteers until year three or four or five.
4 So if you quit looking after year two and they start
5 popping up in year three or four, you completely
6 missed the opportunity to prevent persistence in
7 the environment of a regulated article. And we
8 have references about this science issue. He's
9 one of our new branch chiefs, and he's got the
10 scientific references for this.

11 So what's it mean, permit versus
12 notification? They both constitute regulation,
13 same application tool. They're both subject to
14 inspection. They're both subject to the same
15 enforcement actions and fines, same regulatory
16 goals. Like I said, primarily, prevent
17 persistence in the environment of a regulated
18 article. That's the goal in both cases.

19 In notifications, regulatory authority
20 is extremely minimal. The regulations have
21 performance standards, which, in short, are make
22 sure that you keep the regulated materials

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1 sequestered and separate from the non-regulated
2 material, make sure you can identify it as the
3 regulated material. Make sure it doesn't persist
4 in the environment, and volunteers should be
5 managed. It doesn't say must, it doesn't say how.
6 It just says volunteers should be managed.
7 There's not much room for error.

8 We cannot specify conditions. We
9 cannot mandate or even request site-specific
10 requirements. And there's only a single report
11 that's required to go to BRS and APHIS within six
12 months after completion of the field trial. So not
13 only is there very little communication and
14 collaboration in working out the details going on,
15 irrespective of design protocols that may be worked
16 on, for the most part, those are not site specific.

17 So permits give you an opportunity for
18 much better clarity and much better collaboration.
19 The clarity piece, the regulations are much more
20 specific about what information needs to be
21 provided with a permit application, and APHIS can
22 work with the applicant to create a set of permit

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1 conditions that meet everyone's needs on a
2 case-by-case basis.

3 For example, with wheat, what we could
4 do with permitting is somebody is growing wheat and
5 has a GE wheat field trial in Florida or Puerto Rico
6 or Hawaii, the likelihood of persistence in the
7 environment, the likelihood of seed dormancy is
8 extremely low. We can build that into permit
9 conditions. The need for monitoring for
10 volunteers goes way down in out years because in
11 those situations where it's wet and warm, the seeds
12 are going to germinate. If you're talking about
13 Oregon, Montana, North Dakota, some of these dry
14 and if you have no till and depending on what your
15 herbicide regime is, you just can't say two years
16 volunteer monitoring is going to be enough.

17 We can also require additional reports.
18 We can say things about, well, here's how you need
19 to get rid of it once you're done with it. And only
20 under permit can we require cleaning of equipment.

21 One of the situations that I described,
22 on an inspection, the cavalier attitude, we were

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1 on-site and they wanted to move equipment from a
2 regulated area to a non-regulated area. Should we
3 clean the equipment? And we're like, yes, you
4 should clean your equipment. So they went away and
5 cleaned the equipment and we inspected it, we found
6 not only seeds, we found whole seed heads. We went
7 through four rounds before the inspector said,
8 okay, this piece of equipment looks clean of
9 genetically-engineered wheat seeds, go ahead and
10 move it.

11 So, again, benefits of permitting
12 provide for better collaboration between APHIS and
13 the responsible person. It helps everybody
14 collect data. It helps us do more risk-based
15 management in the future. That's my last one on
16 this issue.

17 So the decision on our proposal is
18 forthcoming this week, maybe next week. And when
19 that decision is promulgated, we will provide more
20 detail on the talk that I give you here today,
21 explaining why wheat, why now, and a number of other
22 things.

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1 Okay. Let's get to the petitions for
2 non-regulated status. We completed eight
3 petitions in fiscal year 2015. It brings our total
4 to 118. When we started our new process in 2012,
5 we had 23 in-house. Only a single one of those 23
6 is still in-house. It's eucalyptus. We're doing
7 an environmental impact statement on that. It's
8 currently in review at Fish and Wildlife Service
9 for endangered species issues. That one is no
10 longer on our list of pending petitions because the
11 petition was withdrawn earlier this year. What
12 that means is that glyphosate-resistant remains a
13 regulated article, and it is no longer on the list
14 of pending petitions. If any of you track our web
15 page on pending petitions, that's why this one
16 disappeared.

17 We also received in the 2000s a request
18 to list this particular genetically-engineered
19 grass. We answered that this year. APHIS, Plant
20 Protection and Quarantine, who does the noxious
21 weed petitions answered that, and APHIS will not
22 list this genetically-engineered grass.

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1 So currently in-house, we have six.
2 Three of these are petitions. There's the
3 eucalyptus that I mentioned from 2011. One of the
4 others came in last year, and one of the others came
5 in this year. And then we had three extensions
6 that are all 2015. One of them is currently out
7 for public review. The other two are not out for
8 public review because we're still working through
9 the initial stage to get to the final where we put
10 it out for public review.

11 So in-house, we've got the whole six
12 right now. And except for that 2011 one, they all
13 came in this year or last. But keep your ears
14 perked for action on biomass.

15 So this is a table that just shows all
16 of the different things that have been granted
17 non-regulated status. It's a really busy slide,
18 but I'd just call your attention to the left side
19 with the green. Those are in major commercial
20 production. The bottom yellow, a little bit, not
21 so much. And then on the right side, even though
22 USDA has granted non-regulated status to those, for

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1 whatever reason, and, again, this is a business
2 reason. People, companies decide whether or not
3 they're going to market it. In the case of tomato,
4 that was on the market for a while. Now it's off
5 for business reasons. It had nothing to do with
6 getting authorization from the USDA. And if they
7 wanted to put that back on the market today, the
8 non-regulated status would still apply, but it's
9 just not in commercial production.

10 And then all the others, apple was
11 recent, they're not in commercial production
12 because they're gearing up for operation. I
13 expect potatoes will be moving over to the green
14 or yellow side pretty soon. There have been a
15 number of potatoes authorized over the years.

16 Looking forward to 2016, we've pretty
17 much completed the design phase of the signature
18 process improvement that the Secretary is
19 tracking. Now we have to walk the walk, and we've
20 started walking the walk but we're not done.

21 We're going to continue to improve
22 condition development for clarity and

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1 enforceability. We're going to enhance
2 inspection and oversight, as I explained partly.
3 We're going to continue hiring for risk assessment
4 and regulatory oversight, both on the BRAP side,
5 John Turner's side, reviewing authorizations. I
6 hope to hire four to six people this year for that
7 group. And on the compliance side, we hired seven
8 last year and will hire two or three more this year.

9 We do plan on delivering a compliance
10 incident response plan. I mentioned that we
11 continue to move towards BRS, people in my chain
12 of command, doing a higher percentage of the
13 inspections. We'll be there in 2017 or 2018, we'll
14 reach the asymptote.

15 This year we'd like to finish five
16 petitions. We've only got -- when I say petitions,
17 I'm including extensions. We've only got six
18 in-house right now, so having these measures is
19 getting more and more difficult as we crank these
20 out.

21 And rulemaking. I have a little
22 session to talk about that a little bit later.

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1 Questions?

2 MR. ANDERSON: Chris Anderson from
3 Ames, Iowa. So these new inspections where you
4 have regulatory analysts doing them, that's for all
5 crops, not just the sensitive crops or crops in the
6 limelight like wheat, but it will be with corn.

7 MR. FIRKO: Let me expand on that a
8 little bit. If our hiring pool turns out to be
9 primarily people who have done 20, 30, 40 of these
10 a year, we're hiring them away from PPQ. They're
11 the most competitive.

12 MR. ANDERSON: So they'll be out in the
13 rural hinterland and not in Washington, D.C.?

14 MR. FIRKO: Absolutely.

15 MR. ANDERSON: Okay. Sometimes it's
16 travel.

17 MR. FIRKO: None of these people are
18 going to be in Maryland or D.C. There will be one
19 or two in each of our hubs, Raleigh and Fort
20 Collins. We have someone in Hawaii. We have
21 someone in Puerto Rico. We have someone in Iowa.
22 I might be missing one or two others, but we're

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1 staggering them around, yes. And in many cases,
2 they'll be the same people who have been doing it
3 in the past. Instead of having a pool of 100 people
4 doing them, we're going to have a smaller pool of
5 people doing it as a much larger proportion of their
6 overall workload.

7 MR. MEDLEY: Hello. Terry Medley from
8 DuPont. I guess the question that I have for you
9 goes back to the notice for request for comments
10 on the change in the status, and our situation, in
11 terms of putting our explanative mark on the
12 process. My question is, is there a reason that
13 this is a notice for request for comment, as opposed
14 to a proposed rule seeking the same end goals?

15 MR. FIRKO: APHIS and MRP and the
16 Office of the Secretary all agree that this was
17 completely within the discretion of the
18 administrator to do this without doing a rule
19 change. This is not a rule change. This has
20 happened many times over the years. That's why I
21 handed out this sheet because a number of these
22 moved from notification to permit as a policy

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1 change as opposed to a regulation change. And
2 you'll see this in the regulation change.

3 MR. IREY: Mike IreY, Southern
4 Gardens. As part of the inspection process, do you
5 anticipate having any feedback mechanisms for the
6 permit holder, instead of just getting a note of
7 compliance or non-compliance of, you know, you
8 could have done this better but it meets the
9 standards?

10 MR. FIRKO: I hope that gets better,
11 absolutely. And that's one of the reasons why I
12 feel more comfortable with having most of the
13 inspections done by members in my chain of command
14 because then we can make sure that that is a top
15 priority for them and not one of 20 or 30 other
16 duties that they got to deal with.
17 Biotech's their business, and that's all they have
18 to deal with. Absolutely, we can give feedback.
19 I mean, as I explained with the permits --

20 MR. IREY: But feedback to us.

21 MR. FIRKO: Yes, yes. One of the
22 things about permits is that that dialogue happens

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1 much more frequently and completely. I should
2 tell the group that you and I meet twice a year.

3 MR. IREY: Or more.

4 MR. FIRKO: Or more. So, yes, I hope
5 to increase a two-way exchange of information.
6 That's the collaboration piece I was talking about
7 on that last section, yes. Thank you.

8 OPERATOR: All participants are now in
9 listen-only mode.

10 MODERATOR GEORGE: In the U.S.,
11 biotechnology is regulated by not one but three
12 agencies in what's called the coordinated
13 framework for the regulation of biotechnology, and
14 here to talk about that coordination are
15 representatives from each of the three agencies.
16 From the Environmental Protection Agency, we have
17 Michael Mendelsohn, Senior Regulatory Specialist,
18 Microbial Pesticides; from the Food and Drug
19 Administration is Bob Merker, Supervisor in the
20 Division of Biotechnology; and from our own APHIS
21 BRS is Assistant Deputy Administrator Sid Abel.
22 And here's Sid.

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1 MR. ABEL: Thank you, Dick. Good
2 morning, everyone. We think this is a pretty
3 timely topic for this group. Last year, as many
4 of you may be aware if you were here last year at
5 our Stakeholder in 2014, we began a conversation
6 about how the three agencies interact during the
7 conduct of the review of a product of
8 biotechnology, whether we make a registration
9 decision or a deregulation decision or the
10 consultation with FDA on the food safety side.

11 So we believe this was a pretty timely
12 topic also because, you know, back in July, the
13 White House initiated an effort to do an update of
14 the coordinated framework. So those two things
15 are kind of connected together because they have
16 to do with the way the three programs, the three
17 lead agencies in the coordinated framework
18 interact with the safety of biotechnology
19 products.

20 The Office of Science and Technology
21 Policy is leading this process to modernize the
22 federal regulatory system for these products in

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1 biotechnology. And we're doing this in order to
2 increase the confidence in our regulatory system
3 and to prevent barriers to future innovation and
4 competitiveness.

5 This effort aims to improve our
6 transparency, the coordination among the agencies,
7 the predictability and efficiency of this system,
8 and the regulation of biotechnology products while
9 continuing to protect the public health and the
10 environment.

11 I'm going to come back in a few minutes
12 and kind of give you a landscape of where this
13 process is, give a little background, where we are
14 now, and where we're going in the next few months
15 as we try to achieve our objective of completing
16 this process by sometime in the summer of 2016.
17 But before I do that, I want to let Mike Mendelsohn
18 and Bob Merker give a little bit of an overview of
19 that coordination activity and some of their roles
20 and responsibilities among the three agencies, and
21 then I'll come back after that. So next will be
22 Mike Mendelsohn from EPA. Thank you.

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1 MR. MENDELSON: Well, good morning.
2 It's good to be here. I just want to share a little
3 bit of some of our coordination activities. We
4 work closely together with our colleagues here at
5 USDA and with folks at FDA, as well.

6 So I think you're all familiar with this
7 diagram here showing how the agencies work together
8 under the coordinated framework, looking primarily
9 at plants here. USDA, looking at what's safe for
10 agriculture and the environment; FDA with what's
11 safe for use in food and feed; and at EPA, our focus
12 is pesticides.

13 So I just want to go down the list here
14 and talk a little bit about how we currently work
15 together and coordinate in the area of
16 biotechnology. The first item here, we keep each
17 other informed on specific actions and have monthly
18 interagency teleconferences. So we talk about the
19 different applications that are coming in. And
20 many of these are sent to all three agencies, some
21 to just one, some to two. But we keep each other
22 informed of what's coming in the pipeline and the

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1 status of those. We also have an interagency
2 information-sharing memorandum of understanding,
3 so we can share and talk about confidential
4 information freely between the agencies.

5 We coordinate on international
6 outreach at FAO and OACD. We also coordinate with
7 incidents, as I mentioned earlier where they reach
8 across the agencies.

9 With regard to small-scale testing of
10 biotech microorganisms, we have a memorandum of
11 understanding and USDA and EPA inform each other
12 when we each see those. We share risk assessments,
13 particularly with USDA. They make use of our
14 bio-pesticide and chemical herbicide risk
15 assessments to support their plant pest risk
16 assessments and NEPA compliance. And, of course,
17 we coordinate with weed-resistance management with
18 herbicides.

19 And I just want to leave you with a
20 little bit of contact. We've renewed our website
21 within the last about month - month and a half at
22 EPA. Many of the URLs are all different, so if you

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1 notice that it's not www.epa, it's www2.epa. But
2 we've updated the website, as well, I think for
3 PIPs. We have an updated list of all PIPs that have
4 been registered and linking to various databases,
5 so that should be a good tool. Also listed here
6 is the TSCA information, as well.

7 But I think the message is that we work
8 together closely between the three agencies and
9 coordinate on various things. Thanks.

10 MR. MERKER: Good morning. I'd like
11 to thank the organizers for having me. As Mike
12 just said, we actually do a fair amount of
13 communicating between three agencies. We do have
14 a monthly phone meeting. That's a regular
15 activity. We also have what I would characterize
16 as irregular activities. We've had joint meetings
17 on scientific issues. We've had joint meetings to
18 talk to certain small developers. So it's
19 something that we do as a matter of routine. And
20 for me, meeting with the people over here at APHIS
21 is very easy. I just needed to walk down the
22 street.

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1 As far as FDA's programs, our model is
2 we have a voluntary consultation program and we
3 suggest that you consult with us early and often.
4 Tell us the story about the new plant variety and
5 why it's safe for food and animal feed. Consult
6 early, and that way we'll avoid surprises that
7 might delay us later in the process.

8 There are many different ways to
9 interact with FDA when you're ready to interact
10 with us. You can do it in person. We're happy to
11 receive you at our spacious College Park offices.
12 We're also happy to organize a teleconference.
13 Words work pretty well.

14 We also have computer-assisted
15 meetings so that you can actually show us your
16 slides from your office in Honolulu and we can see
17 them at our offices in College Park. That's via
18 WebEx. So we can organize any of those types of
19 meetings.

20 And we do regulate all food and feed,
21 so even if BRS doesn't regulate your product,
22 please talk to us. Food from the plant is still

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1 regulated by FDA.

2 I've got some contact information, and,
3 of course, I misspelled contact, so that's minus
4 one for me. I'm the consultation lead. I've got
5 a pretty easy email up there,
6 robert.merker@fda.hs.gov.

7 For general questions, you can visit
8 our website at www.fda.gov/geplantfoods, and
9 that's not General Electric. And also any
10 questions you have, you can send them to pre-market
11 without a second "e" at fda.hhs.gov. If you have
12 any questions about our early food safety
13 evaluations, you can contact my colleague, Carrie
14 McMahon, and her email address is there. And I
15 thank you for your attention.

16 MR. ABEL: Thank you, Bob and Mike.
17 Okay. So I want to continue on and talk a little
18 bit about the effort by the White House to update
19 the coordinated framework. As you all know, it's
20 coming up on 30 years since the original release
21 of the coordinated framework, which described a
22 comprehensive policy for the safety of

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1 biotechnology products. The three primary
2 agencies being USDA, FDA, and EPA.

3 In that coordinated framework original
4 announcement, it set up a series of principles, and
5 among them were things like use existing
6 authorities wherever possible to regulate the
7 products of biotechnology, cover a range of
8 products from plants to animals to microorganisms
9 where possible and to the extent possible and where
10 possible, have just one of the three agencies
11 regulate those products. But when it's not
12 possible and multiple agencies will regulate those
13 products, do so in a very coordinated fashion,
14 which is what I believe we are doing today. And
15 then among them also is using a risk-based approach
16 to the regulation of these products.

17 As we all know, advances in the science
18 and technology have dramatically altered the
19 landscape of biotechnology over the last 30 years.
20 Such advances have enabled the development of
21 products that may not have been previously thought
22 of or even possible back even 30 years ago when we

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1 first released the coordinated framework.

2 While we believe the current regulatory
3 system effectively protects health and the
4 environment, it is important that we continue to
5 strive and improve the system that we established
6 back in 1986. So updating the coordinated
7 framework will help ensure appropriate oversight
8 of the regulatory system while continuing to
9 provide a framework for advancing innovation to
10 address some of society's most pressing needs.

11 The Executive Office of the President,
12 along with EPA, FDA, and USDA, are leading this
13 implementation effort under a new workgroup that's
14 been formed, referred to as a biotechnology working
15 group, under the auspices of the Emerging
16 Technologies Interagency Policy Coordinating
17 Committee, ETIPCC for short.

18 Other agencies have also been involved,
19 and so it's just not these four groups, but we have
20 other agencies involved: U.S. Trade Representative
21 is involved, OMB is involved, the State Department
22 is involved. And then we've also invited others

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1 into this program to provide some advice and
2 counsel as we move forward, such as some of the
3 funding agencies. Department of Energy, National
4 Science Foundation, NIH are also at the table
5 periodically during the course of these meetings.
6 We conduct these meetings on basically a weekly
7 basis, and then sometimes more frequently, as we
8 have formed a couple of subgroups underneath this
9 biotechnology working group.

10 The BWG for short will address three key
11 principles during the course of this year-long
12 process. The first thing is update the
13 coordinated framework to clarify the roles and
14 responsibilities of the three agencies, and that's
15 where most of our focus is right now.

16 We'll also develop a long-term strategy
17 for the future products of biotechnology, and then
18 we've also commissioned an external independent
19 analysis of the future landscape of biotechnology.

20 In updating the coordinated framework,
21 each agency will retain its statutory authority and
22 its regulatory authority, as well. However, we

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1 will do a better job of clarifying to the public
2 which agencies have lead regulatory role on
3 particular products that are subject to
4 overlapping jurisdictions.

5 We will clarify the standard mechanism
6 for communication and coordination among the three
7 agencies. We will also identify designated
8 responsible people within those three agencies for
9 the communication and coordination of these
10 activities. And then, finally, we'll also clarify
11 the mechanism for regularly reviewing and updating
12 the coordinated framework to support innovation,
13 protect the environment, and protect public
14 health, and also to promote public trust. We
15 believe that's very important. We don't want to
16 wait 30 years before we take another look at the
17 coordinated framework and update that.

18 And the long-term strategy will focus
19 on predictability and efficiency in identifying
20 the authorities, the regulations, the policies, if
21 any, to improve our ability to efficiently assess
22 impacts and risk from future products and to ensure

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1 that these risks are grounded in the best available
2 science. Develop a plan for periodic horizon
3 scanning. Transparency. Working with
4 stakeholders to identify impediments to innovation
5 and develop tools and mechanisms for assisting
6 small businesses.

7 We will also develop a user friendly
8 sets of tools for communicating the agencies'
9 authorities, practices, decision-making, and
10 outcomes for regulating these products. And then,
11 finally, the long-term strategy will engage the
12 public to discuss how we can use a risk-based
13 scientifically-sound approaches to regulating
14 products of biotechnology.

15 The biotechnology working group will
16 also then commission an independent analysis of a
17 future landscape of biotechnology products that
18 will identify potential new products and
19 frameworks for risk assessments and areas in which
20 the risk or lack of risk relating to products of
21 biotechnology are well understood.

22 This effort is nearing start-up. We

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1 got a tentative agreement in place now with the
2 national academies, and we're kind of finalizing
3 that scope of that particular project now and are
4 putting agreements in place and getting the funding
5 mechanism in place so we can begin that horizon
6 scanning.

7 The independent review will help us
8 inform our future policy and decision-making. Due
9 to the rapid pace and the change in this area, the
10 analysis will be completed at least every five
11 years. So this will be the first of a recurring
12 five-year cycle in doing these horizon scans.

13 So where are we now? As you all know,
14 back on October 30th, we had our first public
15 meeting on the coordinated framework held at the
16 White Oak facility for FDA. That also included a
17 comment period that was open on the request for
18 information related to that White House memo. We
19 received 903 submissions and, to date, 556 have
20 been posted on the website. FDA will be managing
21 those comments as they continue to review them and
22 get most of them posted up on the website. We'll

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1 then take those down, review them, put them into
2 various buckets so we can begin to use that
3 information to help guide us on how we will change
4 the content of the coordinated framework.

5 Following that meeting the analysis of
6 that information, we're going to update that
7 coordinated framework based on that advice that
8 we've gotten from the public comment period. And
9 then sometime in the first quarter of next year,
10 we're going to run two additional public meetings.
11 Both of them are going to be focused on the
12 coordinated framework and how we are proposing to
13 change the coordinated framework, roles,
14 responsibilities, etcetera, of the three agencies,
15 and we're going to place those out in public
16 comment, as well. We'll open up a docket for
17 those, and it will be occurring somewhere west of
18 the Washington, D.C. area sometime in that first
19 quarter. We're still working on the logistics of
20 where those two meetings will occur, getting them
21 set up, getting the content and the nature of those
22 presentations, if there will be any, for those two

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1 public meetings. And you should probably be
2 hearing more information about that over the next
3 couple of months, at least we hope the next couple
4 of months.

5 So APHIS, as well as USDA and, in
6 general, FDA and EPA are looking forward to working
7 with our other federal partners, with our
8 stakeholders and the public at large to improve the
9 coordinated framework and provide for a better,
10 more reliable system of regulating biotechnology
11 and certainly more transparent than it apparently
12 is. And we've heard a number of the comments so
13 far that we've reviewed from the RFI.

14 With that, I can take a couple of
15 comments, if there are any, or questions. And then
16 --

17 MR. MEDLEY: Sir, moving on, I just
18 have two questions really. One, with regard to the
19 group, can you speak at all about, you said the
20 agencies, but who have you got sitting on that
21 group? And, secondly, with regard to the
22 independent assessment with the National Academy,

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1 do you have any idea what a time frame might have
2 for that to occur?

3 MR. ABEL: So to answer the first one,
4 the representatives from the three agencies, FDA,
5 EPA, and EPA are the sitting members of this group,
6 along with OSTP, the Office of the Science,
7 Technology and Policy are also on this group. We
8 have probably 15 to 20 people represented across
9 those three agencies in OSTP that sit on this
10 working group. Many of them are here today. Mike
11 is on the group. Bob is also on the group. I am
12 also on the group representing APHIS and USDA at
13 large. The Office of the Secretary is also
14 represented on this group.

15 So we've got a pretty diverse group of
16 people. Veterinary Services is on the group, the
17 Center for Veterinary Medicine is also on the
18 group. EPA's Office of Toxic Substances is also
19 on this group. So it represents the three agencies
20 broadly with a number of people on that group.

21 And then the second one, we were hoping
22 that we'd be able to get this horizon-scanning

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1 done. We have a time frame that we hope to achieve
2 getting the coordinated framework updated, which
3 is July of next year. We wanted to set up a year's
4 process. It's taking us a little bit of time to
5 get that contract or agreement into place, so it
6 may be a little behind the actual coordinated
7 framework. But I would expect it sometime in late
8 summer or early fall next year, somewhere in that
9 time frame. We'll have more information on that
10 as we move forward to get this agreement in place.

11 MR. JENKINS: Dan Jenkins with
12 Monsanto. Sid, your comment once again on your
13 comment around identifying a lead agency and how
14 the agencies need to work together in that respect.
15 Obviously, the agencies have to work
16 independently. EPA, for example has to be on its
17 own time line to some degree. I would imagine that
18 a lead agency, despite having the title of lead
19 agency, would still run independent time lines.
20 Can you comment on that?

21 MR. ABEL: The concept of the lead
22 agency is the coordinated framework from the

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1 original 1986 release. It is open for discussion.
2 It's suggested that, when you have multiple
3 agencies involved, that, if there is a lead agency,
4 if there can be agreement on the lead agency there
5 should be one. That way, the public, the
6 stakeholders, and the company itself has one
7 conduit into the system. It's open for discussion
8 whether or not that is even possible as we move
9 forward with the updated coordinated framework.

10 I think the timing issue that you raised
11 there in terms of how long it takes EPA or FDA or
12 USDA to complete their activities, we've become a
13 lot more, I would say, coordinated there or at least
14 synchronous there than we have been in the past.
15 Our attempts, our success at improving our
16 processes for running a petition through the
17 deregulation process has narrowed down much, you
18 know, greatly. We're down to pretty much meeting
19 our time frames and we will this year for anything
20 that came in in 2015, the 13 and 15-month
21 deregulation decision periods. Those pretty much
22 line up with EPA's dates, for the most part, for

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1 many of the new uses that may be used on these
2 products of biotechnology and specifically things
3 like herbicide-resistant crops.

4 And we have found it's pretty close to
5 the same timing that the FDA completes its
6 consultations, so we're within a pretty
7 synchronous there, within a couple of months of
8 each other most of the time. So I don't think the
9 concept of lead agency will cause any problems
10 there, but that's still, again, open for discussion
11 between the three agencies as we move forward.

12
13 MODERATOR GEORGE: Thank you, Sid,
14 Bob, and Mike. At least year's meeting, we told
15 you about a major initiative to update our systems
16 in significant ways. We call that project CARPOL,
17 which stands for Certification, Accreditation,
18 Registration, Permits, and Other Licensing. For
19 us, it applies mostly to our permitting process.

20 Here to talk about the progress so far
21 and what to expect in the future is Janet Bucknall,
22 APHIS Associate Deputy Administrator for BRS.

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1 MS. BUCKNALL: Hi, everyone. So I'm
2 going to talk about the most exciting topic on the
3 agenda, our IT system. And I just, I actually have
4 very short comments, just five or six slides.

5 So the title slide noted E-File, which
6 is actually going to be our electronic system
7 that's going to replace, among other things, the
8 ePermit system that many of you are familiar with.
9 But the overall agency effort, just to kind of
10 organize the lingo, the overall effort so what we
11 call CARPOL, which really just stands for, as Dick
12 had said, Certification, Accreditation,
13 Registration, Permits, and Other Licenses. So the
14 part where BRS fits and where all of us fit together
15 is in the permitting module, which, happy for us,
16 was the first one that we started developing. So
17 I'll just give you a very brief summary on what our
18 progress is to date and then a little bit what it
19 looks like moving forward for all of us.

20 So in general, the effort here was to
21 really streamline both for all of you but also for
22 employees, for APHIS employees, to streamline a

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1 bunch of different systems that are already in
2 place. We have eight legacy systems that result
3 in the creation of authorizations for the public,
4 basically, from APHIS and also 12 feeder systems
5 which are sort of the off-to-the-side databases and
6 systems that we use to sort of inform and enable
7 to the eight legacy systems. So the overall goal
8 with this CARPOL effort and the E-File system that
9 will be created is to combine those into one system
10 so that an applicant, any one of our companies here
11 today, you may not only get a permit from BRS but
12 you may also have permits or other authorities from
13 some of our sister programs in APHIS, PPQ for
14 example.

15 So the end result of this system, the
16 hopeful end result, is that, as you apply for, say,
17 your BRS permit, you won't have to, for example,
18 re-do the whole thing from soup to nuts when you
19 pursue your PPQ authorizations. So that's one of
20 the benefits that we see but also the collection
21 of benefits for all of us as we go through this.

22 I did just want to note that APHIS

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1 issues -- and I did not know this -- just under a
2 million authorizations a year in all of those sort
3 of six buckets of the CARPOL overall effort, so it's
4 a substantial body of work. And when we consider
5 the applicants, the APHIS employees involved, it
6 was about 30,000 global users of our systems
7 collectively. So it's really quite an effort.

8 So this APHIS E-File effort or system
9 that we're creating is going to be a single
10 electronic system. It's going to be cloud-based
11 and based on the Salesforce platform, which some
12 of you may be familiar with.

13 So in terms of the BRS permitting part,
14 I was thinking this morning we may be around 40
15 percent done with the development of the part that
16 you all will be working on with us, in terms of BRS
17 notifications and permits. We're working on the
18 first two parts of the application process that
19 you'll be involved in, the authorization part of
20 it which is us issuing a permit or acknowledging
21 notification. Then other components would
22 involve our inspection compliance, incorporation

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1 of reporting, and things like that that have yet
2 to be developed.

3 But our overall approach this fiscal
4 year or our sort of expected time line is that we'll
5 look forward to either having user acceptance
6 testing which will involve some of you sort of early
7 summer-ish, maybe late spring. And then we're
8 hoping that the system could be implemented by the
9 end of the year.

10 And I know we discussed a little bit
11 about this last year when Mimi presented to the
12 group and some follow-up conversations we had. We
13 are still interested in knowing who of you would
14 like to be involved in the user acceptance testing,
15 and I know we did get some names about a year ago
16 and we just would like to refresh that list. You
17 can talk to me either at the break or any time today
18 or this week or next if you'd like to be involved
19 in that, if you have a very particular interest in
20 being involved in that part of the process. And,
21 again, that will be sort of early summer.

22 I guess that was it. I think I had one

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1 more slide. I think I pressed the wrong button.
2 Yes, there we go.

3 So I'll just finish up from that. And,
4 again, I am available to answer any questions. And
5 Mike did mention that we do expect to accomplish
6 sort of a bunch of things with this developing
7 system, and not the least of which is to help us
8 bring to life the recommendations that we heard
9 from OIG and also some of the other things that we
10 see. Certainly, included among those are the
11 recommendations and our own sort of improvements
12 that we seek to better incorporate the information
13 that you guys give us in your reports into our
14 process to develop permit conditions and to conduct
15 our inspection compliance program.

16 So, hopefully, we'll keep that all on
17 track. And like I said, I'll be here for questions
18 or any requests that you guys have about this. So
19 thank you.

20 Are there any questions now? Yes.

21 MR. GIDDINGS: I'm Val Giddings with
22 the Information Technology and Innovation

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1 Foundation. You mentioned that you issue 900,000
2 some odd notifications every year, 30,000 total
3 users. Could you please explain how you define
4 your total users?

5 MS. BUCKNALL: I think what those
6 numbers were, I think, a conglomeration of
7 applicants and APHIS personnel and people who have
8 received authorizations from the program and
9 combined not only the permits but any of the other
10 forms of authorizations, like accreditations. So
11 it can range from, you know, facilities to other
12 permittees, people that get permits.

13 MR. GIDDINGS: So those are the people
14 who are actively engaged with you securing
15 regulatory approval or permissions, not just folks
16 who log onto the website?

17 MS. BUCKNALL: Yes, right, right.

18 MR. GIDDINGS: Thank you.

19 MS. BUCKNALL: Sure. All right, thank
20 you.

21 MODERATOR GEORGE: Thank you, Janet.
22 Great presentation, plus you got us almost back on

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1 time. So thanks so much.

2 We're going to take a ten-minute break.
3 If you'd like to sign up for an individual meeting
4 with BRS leadership this afternoon, please do so
5 during the break at the registration desk. If
6 you're on the phone and you'd like to sign up, send
7 us an email with your contact information. We'll
8 get back to you to set it up. Send your email to
9 brs.stakeholders@aphis.usda.gov.

10 Thank you, and we'll see you back at
11 10:45.

12 (Whereupon, the above-referred to
13 matter went off the record at 10:35 a.m. and resumed
14 at 10:50 a.m.)

15 MODERATOR GEORGE: If you could take
16 your seats, please, we could get started. We're
17 almost on time. Hello, folks. If you could just
18 -- it's nice to see people having a great time.
19 Please take your seats, and we can get started
20 again. Thank you.

21 Our next segment is about the
22 extensions provision for deregulation at 7 CFR part

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1 340. Here to cover that subject is John Turner,
2 Director of the BRS Biotechnology Risk Analysis
3 Program. John?

4 MR. TURNER: Okay. Listen up,
5 everyone. I've got a question for you, a game of
6 sorts, and you guys are experts and should have some
7 great ideas. What do you think is the most
8 frequently-reviewed trait in the 115 petitions
9 that we have deregulated? So were his hypotheses
10 good? That's the thing: you've got to think in
11 categories. And I'm thinking large: glufosinate,
12 fruit ripening, coleopteran resistance, so
13 phenotype, not phenotype category.

14 So we'll go ahead. I heard some people
15 say glyphosate resistance and, of course, that's
16 a great guess. It's wrong, but it's a really good
17 guess. I would have guessed that until I did the
18 math.

19 The big winner, glufosinate resistance
20 in 26 petitions. That's nearly a quarter of all
21 petitions. Now, I didn't know there are many more
22 that use this than all the rest, and all use the

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1 same mechanism of action, phosphinothricin acetyl
2 transferase, the PAT protein, two different genes
3 linked to the PAT protein.

4 Next, lepidopteran resistance. Of
5 course, controlling important pest solubility in
6 both corn and pests in cotton. 25 petitions,
7 nearly as many. Next is glyphosate, also very
8 high, 22 petitions.

9 If you kept going and adding all these
10 up, it would equal more than 115. Of course, many
11 of them are stacked. Lepidopteran resistance,
12 that's the Colorado Potato Beetle and more
13 recently, the Corn Rootworm petitions get a lot of
14 petitions. And, again, very similar mode of
15 action. You've got that cry-1 family and that
16 cry-3 family, in most cases providing resistance.
17 Fruit ripening altered goes back to the flavor of
18 tomato. Nine petitions. And, finally, I clumped
19 all the viruses. Eight petitions. After that, I
20 think two was the highest of the numbers.

21 Okay. Let's do the same thing with
22 crops. What's the biggest crop? Corn is the big,

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1 34 petitions, nearly a third. Next is soybeans.
2 Yes, you would have guessed that. How about three?
3 Cotton, 17. You guys are good at this. Next?
4 Tomatoes, all kinds, rape/canola, nine petitions.
5 Finally, seven -- I mean, potato, seven petitions.

6 So the point of this exercise is we
7 spent a lot of time reviewing some of the same
8 things over and over, very familiar traits and very
9 familiar crops. And then you pose the question,
10 is there a way to leverage all of this previous work
11 so that we can expedite the review of similar things
12 when they come in, align with the previous work
13 that's been done? And, of course, Mike will be
14 talking about this in the afternoon, but is there
15 a way to do it without a rule change? And, yes,
16 of course, there is. You know, Mike calls them
17 extensions today, so this is something that's
18 already on the books.

19 So at the risk of losing you, I'm going
20 to go directly to reg. text. It's interesting.
21 It's very important to understand. It says the
22 administrator may determine the regulated article

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1 does not pose a potential for a plant pest risk and,
2 therefore, should not be regulated under this part
3 based on similarity of that organism to an
4 antecedent organism. In other words, they're not
5 establishing plant pest risk de novo; you can make
6 the determination that it does pose a plant pest
7 risk based on similarity. And developers can ask
8 us to do an extension of regulated status.

9 And the second sentence is very
10 interesting, also. This is all regulations say in
11 terms of data or information requirements. Such
12 requests shall include information to establish
13 the similarity of the antecedent organism and the
14 regulated article in question.

15 So, again, not to show de novo that the
16 new thing is not a plant pest but to show that it's
17 similar to something else. So, in its essence,
18 this is a bridging concept.

19 So last year, we announced an extension
20 process. We were going to look at this and see if
21 we could use it more broadly, what we could do with
22 the extension. We talked about that a little last

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1 year, and we've been doing it for a year. We have
2 some draft guidance. It's not on our website yet,
3 but we're hoping to have it up there very soon, by
4 the end of the year, and then some new information
5 requirements.

6 And, again, we're starting to think
7 about, you know, this is something that's on the
8 records that's maybe not being utilized as much as
9 it can. Is there a way to use this to work more
10 efficiently without compromising plant health at
11 all? That's the idea.

12 So under our new system that we've been
13 working on, to be eligible for an extension, we must
14 approve the same crop with the same mechanism of
15 action. So what do we mean by mechanism of action?
16 The EPSPS gene for giving glyphosate to corn, that
17 would be a mechanism of action. There are other
18 ways to do it, glyphosate oxidase, which would be
19 a different mechanism of action. But as long as
20 something shared the same mechanism of action, we
21 think that's what's important.

22 Now, it could be different genes.

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1 There are different sources for these EPSPS genes.
2 As long as they encoded protein which did the same
3 thing, we would consider that the same mode of
4 action, or we'd be willing to think even more
5 broadly: as long as you've seen the crop before,
6 and you've seen that same phenotype category,
7 herbicide tolerance say, we would consider the
8 extension if we've seen the mechanism of action in
9 something.

10 So, basically, we have to have seen the
11 crop before. We would have had to have seen the
12 phenotype category that they're asking about in
13 that crop, and we would have had to have seen the
14 same mechanism of action in something.

15 So there's three scenarios that would
16 fall out if you go down this path. The first one
17 is the easiest. So, we're going to have a
18 previously-introduced trait, and you're just
19 putting it into a different variety. Same gene,
20 same trait, different variety. Our example here
21 is an arctic apple that was recently deregulated
22 in two varieties. If someone came with the same

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1 trait in another variety, that obviously would
2 qualify for an extension. And that's sort of the
3 extension classic. That's the way we tell it for
4 the future.

5 The second example, where traits
6 previously were reviewed separately in a
7 particular crop are stacked together in the same
8 crop, introducing them as a molecular stack. For
9 example, a stack corn line is created introducing
10 both an EPSPS gene which was previously reviewed
11 in corn and a cry gene which has been previously
12 reviewed in corn. Put them both together. Do you
13 think that should qualify for an extension? And
14 in this case, in the case I mentioned, there would
15 be two antecedents. If it was a stack of three,
16 there could be three antecedents. So there can be
17 multiple antecedents.

18 The last example I have is where
19 phenotype categories have been reviewed previously
20 with the crop, but a mechanism of action is new to
21 the crop, but it's been reviewed in another crop.
22 For example, if the hppd gene, which confers

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1 resistance to at least a kind of herbicide, is
2 introduced in corn, so we've had herbicide within
3 the same type of category. Herbicide is obviously
4 in corn but not that particular mechanism of
5 action. However, it had previously been reviewed
6 in soybean, so this also would qualify, and this
7 would be another example where there could be two
8 or more antecedents.

9 Data requirements. We think we need a
10 complete description of the genotype and
11 phenotype, and this includes the genetic
12 modifications of the regulated article under
13 consideration. Function and other organisms for
14 any inserted genetic material, transformation
15 factor, the mechanism of action of the genetic
16 modification.

17 We think molecular characterization to
18 show that what is in there is what you intended to
19 put in there and it's intact. A concise written
20 narrative comparison summary table of the
21 regulated article and the antecedents. Again, the
22 important thing is that we see similarity, how it's

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1 similar.

2 Information with phenotypic expression
3 describing differences between the regulated
4 article and an antecedent organism. And you need
5 to identify the petition numbers and actually
6 probably the events from which the extension is
7 requested.

8 In terms of time line, time lines for
9 review would change depending on the complexity.
10 In the three examples I gave earlier, they get less
11 similar when you go from example one to example
12 three. So there could be a difference in time.

13 NEPA is NEPA, and it's sort of a
14 separate consideration. So in many cases, we
15 think the previous NEPA analysis could be
16 sufficient. Just write a new policy and other
17 cases that may be new to NEPA. So depending on the
18 NEPA analysis, that can change the time line.

19 And, finally, APHIS believes that, in
20 most cases meeting one of the three criteria, we
21 can do this in eight months or less. And our hope
22 is to do it in much less than eight months, but this

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1 allows for a case where you had to do a lot of de
2 novo paperwork.

3 So this is sort of my summary slide
4 pulling together a lot of things. There may be one
5 or more antecedents. Developers requesting
6 extensions may rely on antecedents in petitions
7 from other developers. NEPA considerations are
8 separate and, in some cases, it will involve a new
9 policy, and in other cases a new environmental
10 assessment will need to be prepared.

11 Field data is not necessarily required,
12 so, again, you're showing similarity, you're
13 talking about what's in there, making sure you have
14 the intent and phenotype. And we encourage
15 developers who are considering extensions to come
16 talk to us.

17 So the extension project, people
18 working on it in the past year, certainly not just
19 me. Ginny was our chair. Donna Lalli, our chief
20 of staff, was on the committee. Neil Hoffman
21 contributed big time, as did Chessa Huff-Woodard,
22 keeping us on the legal straight and narrow. And

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1 then there's me, and our executive champion for
2 this project is Janet Bucknall.

3 Thank you. We are going to do
4 questions now.

5 MR. COKER: A gentleman online would
6 like to know is there a way to challenge the
7 extension qualification? Is there a way to
8 challenge the extension qualification?

9 MR. TURNER: You can ask us anything
10 you want, and we encourage people to consult with
11 us ahead of time. But the intent of any guidance
12 is to let people know and to be as transparent as
13 possible as to how we're going to make our
14 decisions. So that's what the guidance is for, and
15 we think the new guidance will give us a lot of
16 leeway to use the extension process.

17 So Mike is asking what sort of public
18 participation there is for the extension process.
19 And the extension process, as described in the
20 regulations, is a little different than a normal
21 petition. The normal petition has to be
22 published, and it goes out for 60 days. You have

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1 to take comment on the petition. Then we make our
2 decision, and that can either require a draft EA,
3 draft documents which go out for comment, or sort
4 of a preliminary decision.

5 So under the extensions, there is no
6 60-day comment period on the extension requests.
7 That's not described. And, of course, the
8 relevant petition has already been out, so,
9 essentially, we have to put the preliminary
10 decision out for a 30-day review period before it
11 can become final. That's the comment period and
12 then the public review period.

13 MR. MEDLEY: Thanks, John. I have two
14 questions. One, in the extension provision,
15 there's nothing that would prevent the agency from
16 identifying something that's entitled to that,
17 correct?

18 MR. TURNER: That's correct.

19 MR. MEDLEY: And, secondly, looking at
20 the time line, it said eight months. Would it be
21 possible to look at six months?

22 MR. TURNER: Would it be possible to do

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1 what?

2 MR. MEDLEY: The time line.

3 MR. TURNER: Again, I think the eight
4 months we were envisioning would be the worst-case
5 scenario. I think certainly six months or much
6 less is very possible, if I understood the
7 question. And we've noticed, that's a very astute
8 observation that the administrator could do an
9 extension without a request coming in, and we've
10 spoke about that a great deal as to when we might
11 want to do that. But one of the issues is you've
12 got all these permits and notifications. You
13 don't ever know exactly which ones would be your
14 bang for a buck in terms of getting something
15 approved where you wouldn't have to again. We
16 don't exactly know where to start, but we're very
17 open to ideas on that.

18 PARTICIPANT: My question is around
19 the data conversation, and the way I understand
20 this is you're prolonging a previous
21 non-regulation petition, and there may be data
22 associated with that that this new person doesn't

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1 have to do. Is there anything in here to
2 compensate, or people can just use data for a
3 different application, even if it's a different
4 company, without compensation? I mean, how does
5 that work in this?

6 MR. TURNER: So we have no mechanisms
7 for compensation, and most of the data that's in
8 a petition is non-CPI and it's open to the public.
9 So there's not, there's nothing, you know, on our
10 part to prevent someone from utilizing that data.
11 It's an interesting question, but we don't have
12 that at this time.

13 MS. SCHMIDT: Daria Schmidt, Pioneer.
14 Did you mention when this posts to the website?

15 MR. TURNER: We're hoping to have the
16 guidance which covers what's not covered today and
17 expounds upon that, you know, soon, maybe by the
18 end of the year. And in the meantime, if people
19 think they're interested in extensions, you can
20 talk to us at any time.

21 MR. JENKINS: Dan Jenkins with
22 Monsanto. How would you distinguish under the

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1 approved petition process, path 1, which we earlier
2 traced, this seems like a pecuniary path, right?
3 So what we've done here is path 1, right, for a
4 petition process, which is really for traits more
5 familiar. Extensions are very similar to that.
6 You're talking about traits, familiarity with
7 cross --- with phenotypes. How do you distinguish
8 those two processes?

9 MR. TURNER: Those are very
10 closely-related concepts, and I do, in fact,
11 anticipate that a lot of things maybe that were
12 previously path one, familiar crops and familiar
13 traits that developers might come and ask us about
14 a petition. But I'd have to think about it, so I'm
15 not convinced every path one would meet the
16 criteria. It can be a familiar crop and a familiar
17 trait, but a phenotype category we haven't seen in
18 a crop.

19 Thanks for your attention, everyone.

20 MODERATOR GEORGE: Okay. So while
21 they're transferring the microphone, as most of you
22 know, back in February we announced the withdrawal

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1 of our 2008 proposed rule. Since then, we had
2 three webinars in May and an open docket on
3 regulations.gov through June 22nd where we
4 received public comments in response to our request
5 for initial feedback on how our regulations should
6 work.

7 Here now to describe our current
8 thinking about a new proposed rule, once again is
9 Mike Firko.

10 MR. FIRKO: Hello again. So we're in
11 a unique period of time right now with respect to
12 thinking about where we will go with these
13 regulations. We can have lots of conversation
14 about this. This is why we opened up the
15 opportunity this afternoon for one-on-one meetings
16 because, once we publish the proposed rule, those
17 conversations are not going to be as easy to happen.
18 So this is a good time to be talking about ideas.

19 The reason you'll see the terms
20 "current thinking" multiple times on my slides is
21 because that's what that means: this is where our
22 current thinking is. There will be things in the

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1 proposed rule that you're not going to see here
2 today, and you may not see some of the things you're
3 going to see today in the proposed rule. But this
4 is where we are right now.

5 So I want to remind folks, and I have,
6 in the spirit of updating the coordinated
7 framework, you might notice that under USDA it says
8 we're plant health. That's really our authority.
9 The previous slide is a version of the slide that's
10 going to be used for many years. It says safe for
11 agriculture and the environment. But our statutory
12 authority is really about plant health, as the name
13 of our agency is the Animal and Plant Health
14 Inspection Service.

15 I wanted to remind folks of basic tenets
16 of the coordinated framework. These were
17 published in 1986, and they have proven to be true
18 over these past 28 years of regulating the products
19 of genetic engineering. The risks of GE organisms
20 are not fundamentally different from risks imposed
21 by non-GE organisms with similar traits.

22 The coordinated framework was clear

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1 that regulation should be science-based and to be
2 done case-by-case and that existing laws provide
3 sufficient authority. If you look at the, I could
4 have shown you a slide that looks at all the
5 statutory authorities that the three agencies use.
6 I decided not to, but it's things like FIFRA. For
7 us, it started out to be in federal acts, like the
8 Plant Protection Act. But there is sufficient
9 authority to protect all of those things: plant
10 health, food and feed use, and use as a pesticide.

11 And, lastly, this is the new one that
12 I added. Agencies should stick to their statutory
13 authority, and that's going to be one of my themes
14 over my next several slides.

15 So new regulations. So we've been in
16 discussion within USDA on these ideas for a while.
17 And not too long ago, the Secretary's office came
18 out with what they call their topline messaging,
19 and so I'll give you those and then I'll expand on
20 those.

21 First of all, it's USDA's position that
22 the biotech regs across the federal government,

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1 USDA in particular, have been successful at
2 protecting plant health. We have no reason to
3 believe that anything that we have authorized for
4 field trials or non-regulated status has
5 represented any risk to plant health, so we have
6 successfully protected plant health.

7 But the science is changing. The
8 regulations in 1987 were based on science at that
9 time. At that time, if you were genetically
10 engineering a plant, you were using a plant to
11 transform. That is no longer true. Science has
12 changed.

13 The regulations have stayed
14 essentially the same since 1987 with a few tweaks
15 that I referred to earlier on. We have a new
16 statute.

17 Now, neither in the Federal Plant Pest
18 Act nor in the Plant Protection Act will you find
19 the term biotechnology or genetic engineering.
20 That's because our authority is plant health.
21 It's for plant pests and noxious weeds. But we
22 don't have new regulations since the new statutory

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1 authority was created.

2 The language that we adhere to in our
3 regulations, the language in the Plant Protection
4 Act is the same as was in the Federal Plant Pest
5 Act. That didn't change. The main thing that the
6 Plant Protection Act did was it incorporated the
7 noxious weed authority into one statute.

8 We want to do a much better job moving
9 forward focusing on risk, and by that I mean not
10 worrying so much about things that we're pretty
11 sure don't represent a risk and capturing the very
12 small number of things that we think do represent
13 a risk but are not subject to the current regs
14 because of the way they're written.

15 Our current system is regulate first
16 and analyze later. We get, like I said, we issue
17 2,000 authorizations a year for regulated
18 activities, rotation, interstate movement,
19 outdoor use. When someone asks us to be regulated
20 by submitting a permit application or
21 notification, we give it to them. We specify
22 conditions when we can, but we don't analyze the

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1 risks, the plant pest risks, at that time. We want
2 to move from a regulate first, analyze later, to
3 a situation where we're analyzing first to
4 determine whether or not we have the statutory
5 authority to regulate the product, organism,
6 whatever it happens to be, and then only regulate
7 it if it represents a risk.

8 This is going to amount to regulatory
9 relief for many people. I believe it will
10 dramatically stimulate innovation in new plant
11 varieties. When we speak to universities, they're
12 very clear. They say, look, we can do field
13 trials, but we simply can't afford an efficient
14 process, so we could never get a product on the
15 market. This will make it possible for folks who
16 are creating products in biotechnology that do not
17 represent a risk to American agriculture, don't
18 represent a risk as a plant pest or a noxious weed,
19 to go ahead and do the development of their product.

20 So current thinking, there it is. So
21 when it came down to a proposed rule earlier this
22 year, we also opened up a public comment period.

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1 We had 40 or 50 comments that were received during
2 a series of three webinars that we did, but,
3 overall, we received comments from 221,000
4 individuals. Now, like the previous situation,
5 many of those were group comments. They take a
6 variety of different forms. There's one
7 statement, and then it's signed by a number of
8 people, or a statement is shared with a variety of
9 people and they each sign it and it comes in as a
10 package. But we received comment from 221,000
11 individuals.

12 Next month, it's our intention to
13 publish a notice of intent to conduct an
14 environmental impact statement. This is what's
15 called a programmatic environmental impact
16 statement, programmatic because we're talking
17 about changing our program. So you do an
18 environmental impact statement that reviews a
19 variety of different approaches.

20 Now, again, our current thinking is
21 that we're going to have four alternatives that
22 will be discussed in the NOI. We're required to

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1 have what's called a no-action alternative, which
2 means don't do anything, just keep the regulations
3 as they are. So that will be analyzed in the
4 environmental impact statement.

5 We will analyze an alternative that
6 looks like what I'm going to show you over the next
7 couple of slides. Of those 221,000 comments that
8 we received, the vast, vast, vast majority of them
9 were, first of all, they'll never allow any of this
10 to be planted anywhere; and, secondly, if you do,
11 it has to remain under regulation forever, don't
12 ever grant non-regulated status. So that will be
13 one of the alternatives in the EIS. You can't
14 ignore 200,000 comments.

15 We have created, because it's our
16 intention to implement the noxious weed, we have
17 created a weed risk assessment tool. It has not
18 been used for an operational decision to this
19 point. We've been working on it for a couple of
20 years. We have a very talented and diverse staff
21 of scientists not only in BRS but through APHIS
22 people who have been doing weed risk assessments

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1 for decades. APHIS has an outstanding weed risk
2 assessment tool in Plant Protection and Quarantine
3 at the Center for Science, Center for Medical
4 Science and Technology. And our model is based
5 primarily on their model, but it also has elements
6 from models from around the world: Australia, New
7 Zealand, and other places.

8 What you'll see when you look at our
9 model and these other models is that there's a lot
10 of similarity among the models. I mean, people
11 pretty much agree on what are the things that make
12 a plant a weed.

13 We have currently entered into an
14 external peer review of our model. This is being
15 conducted through USDA's Office of Risk Assessment
16 and Cost Benefit Analysis, and it's consistent with
17 the OMB process for external peer review. And then
18 it's our intention to, as soon as possible after
19 that peer review process and revisions to the
20 model, we expect to submit the model to a peer
21 review journal, scientific journal publication.

22 So we have run several risk assessments

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1 in-house to see how it's working, see if it's
2 getting reasonable results. We're very happy with
3 the way it's working. It's not an operational tool
4 at this point. But when we publish the proposed
5 rule, there will be much more information available
6 at that time about some of these results.

7 We're developing the proposed rule now,
8 and it's our intention to publish the proposed rule
9 this coming summer. Like I said, we briefed the
10 Secretary numerous times on this, and he said to
11 us about six months ago or so, okay, go ahead and
12 publish your proposed rule, but you've got to do
13 it no later than September. Does anybody know
14 what's happening around here in November next year?
15 Elections. I hope that we're able to publish in
16 August. I'd love to do it in July, if possible.

17 But, you know, we learned a lot of
18 lessons with the 2008 proposed rule. We're trying
19 to avoid some of the things that we did that caused
20 enough problems.

21 Again, you know, one of the things that
22 comes from that first piece is that we've been

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1 learning for 28 years about the risks associated
2 with these products, where they are and where they
3 are not. We need to take advantage of that. We
4 need to stick to our statutory authority, and the
5 reason I said that a couple of times is that our
6 current regs, and I'll show you this slide in a
7 minute, are based on a particular way to transform
8 plants, in particular use of the plant pest. And
9 history has shown over the last 28 years that that
10 doesn't necessarily mean that the plant becomes a
11 plant pest, but we just keep asking that question
12 over and over again. We need to take advantage of
13 the learning that we've done in that area and stick
14 to our statutory authority to only regulate things
15 that represent a documented risk as a plant pest
16 or a noxious weed.

17 We're talking definitely about a new
18 trigger or definition. I'll show what the trigger
19 is now in a few minutes. And it's basically moving
20 from this situation where mere involvement of a
21 plant pest in the transformation process means
22 we're automatically a regulated article.

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1 So here are our current regs. It's the
2 two-tiered -- here are the two hurdles that have
3 to be met in order for you to be a regulated article,
4 and if these two things are true you are a regulated
5 article. Your organism has been altered using
6 recombinant DNA techniques. It depends on who you
7 ask. You'll get different answers about what that
8 word rDNA means. Some people take a very narrow
9 view and think that only means if you're moving
10 genetic material from one species to another all
11 the way to the other end of the continuum where any
12 time you've done anything to cleave a string of
13 nucleotides in the DNA and it reassembles, that's
14 rDNA. And I think you'll get any number of
15 different answers between those about what rDNA
16 means. But if you use rDNA, concepts and there's
17 a possibility the organism is a plant pest, so how
18 can, for example, a corn plant become a plant pest?
19 Well, according to our current regs, it's either
20 because you used plant pests to donate genetic
21 material. Maybe you found a bacterium that's
22 considered a plant pest that has an

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1 herbicide-resistance gene, and you put that
2 herbicide-resistance gene in corn, so it's
3 automatically regulated, or the recipient is a
4 plant pest. You know, most of those are plant
5 pests. I mean, if the thing you're transforming
6 is a plant pest, then it does meet the plant pest
7 criteria. That was pretty clear.

8 The reason that we regulate the vast,
9 vast majority of everything we regulate is because
10 the way that the plant was transformed was with the
11 use of plant pests to show DNA from here to there
12 or something else like that. It's done in a
13 variety of different ways. And, again, if there's
14 anything we've learned in 28 years, simply using
15 disarmed agrobacterium tumefaciens, just using it
16 to show genetic material from one place to another,
17 that doesn't necessarily make the plant a plant
18 pest. I see lots of heads nodding, you know. We'd
19 like a new trigger. There's a list in our regs that
20 needs to be met.

21 Again, current thinking. In our
22 future world that I always smile when I think of,

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1 when we're regulating only those things that
2 represent a risk, we would not be regulating
3 products, plants, whatever, until such time that
4 we have completed either a plant pest risk
5 assessment for plant pests or a weed risk
6 assessment for plants and be able to document a
7 reasonable risk hypothesis with scientific support
8 about why we think this needs to be regulated. So
9 regulate only with documented risk. This is the
10 analyze first and regulate only when needed.

11 Obviously, this takes us to a place
12 where regulation is risk-based. When I say
13 regulation, you know, I'm talking about regulated
14 field trials, move it to interstate. All that is
15 regulated now. And it's not analyzed. It's just
16 regulated now until such time when someone submits
17 a petition for non-regulated status.

18 We joke with ourselves consistently
19 over the last several years about what comes in and
20 what does "in" mean. So there's two tiers here.
21 The first is that we have a pretty good idea what
22 we think should be regulated because it represents

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1 a risk as a plant pest or a noxious weed. I don't
2 think that's a very fun question to answer. I
3 think we've got 28 years of experience dealing with
4 plant pests and we developed a new weed risk
5 assessment tool to look at noxious weed risk and,
6 to me, that's not going to be that hard.

7 The first year or two under new regs is
8 going to be a struggle. It's going to completely
9 change our operations and go to a different way of
10 doing business.

11 The harder thing, though, is how do we
12 say in the regulations that you have to come ask
13 us if? And I'll ask this group, just like I've
14 asked many other groups over the last several
15 weeks, how should that be phrased in the
16 regulations? I guarantee you, no matter how we
17 phrase it, there's going to be screaming and
18 yelling and everything else. But as regulators,
19 we're used to getting screamed at from all
20 different directions. No matter how we phrase it,
21 there will be people saying, you idiots, you're
22 killing us with this over-regulation; and there

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1 will be people saying, you idiots, you need to
2 regulate all this this way.

3 So we're trying now during this time
4 period when we actually have it for conversations
5 to come up with how should that be phrased in the
6 regulations about when you have to come ask us. So
7 a big picture idea of what we're looking at now is
8 a larger umbrella simply because now we're talking
9 about a new authority, noxious weed authority. So
10 the things that should get our attention might be
11 greater for a very short period of time, but then
12 the stuff that fits through the filter and actually
13 gets regulated is much smaller. Much smaller.

14 I couldn't talk today without talking
15 a little bit about precision breeding. Let me give
16 you, think about an advantage of engaging in these
17 conversations. I gave a presentation sort of like
18 this one not too long ago to a group, and I read
19 our working definition of genetic engineering.
20 Wow. It was not received well. It was viewed as
21 an overreach. One of the things it said is, look,
22 if you use any techniques of modern biotechnology,

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1 we're calling that genetic engineering and you need
2 to ask us if it's regulated. And that was, like
3 I said, that was viewed as a dramatic overreach.

4 So we got that input. It was great
5 input. That definition of genetic engineering is
6 gone from our framework document now. So we
7 responded already when we received input, as
8 opposed to questions. And one of the main things
9 that we're talking about now is how do we
10 characterize some of these precision breeding
11 techniques?

12 I'll give you an example. Look around
13 the world at what's happening in other countries.
14 Some countries are saying simply, look, if there
15 has not been any genetic information put into the
16 product, that doesn't need to be regulated and
17 we're not going to regulate that. And there's also
18 some techniques that are used in precision breeding
19 that either knock out a nucleotide or knock out
20 several nucleotides, disable a gene, whatever.
21 There's several things like that that don't involve
22 moving any genetic information into the process.

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1 That's a possible direction we could go and say
2 anything like that is exempted, but it's a long way
3 from here to next summer, and we're trying to figure
4 out the best way to characterize that in our regs.

5 What comes in, I already mentioned
6 this, this is our number-one issue that we're
7 talking about internally. When I have a meeting
8 like this, and I ask people for input on that.

9 So now, under our current regulatory
10 system, if, after we've been regulating something
11 for two, four, five, ten, twelve years under
12 controlled field trials, if someone comes to us and
13 says, you know, I don't think my plant is a plant
14 pest. We do a plant pest risk assessment. We do
15 our NEPA documentation. And then I sign a
16 determination that says we did the PPRA, plant pest
17 risk assessment, we did the NEPA documentation, and
18 guess what? This thing is not a plant pest.

19 In the future, we see someone coming in
20 where we analyze first part, and then we write a
21 letter to that person that says we reviewed this
22 thing completely and guess what? This is not a

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1 plant pest, and it's not a noxious weed. Go forth
2 and prosper.

3 So from day one, I challenge folks on
4 my staff to design the letter that's going to go
5 out under our new system to look strikingly similar
6 to the letter that goes out now in public cases.
7 We're reviewing the product. We're making a
8 determination does it represent a risk to plant
9 health, and we may need appropriate environmental
10 considerations.

11 We have in our regulations for NEPA
12 currently that under our current system, a petition
13 for non-regulated status requires this many days.
14 We want to move to a new system.

15 So I think now we have time for
16 questions. Dan?

17 MR. JENKINS: So, if you were to
18 determine that something was not in --- that
19 something needed a major federal action to get in,
20 are you saying that there would not be any methods
21 to consider it or that there might be?

22 MR. FIRKO: So, originally, we were

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1 thinking that the way to do this would be to have
2 it all be done under a permit application because,
3 you know, in our NEPA regulations it says
4 permitting activities are a category that are
5 excluded under the requirements of the NEPA. So
6 for a variety of different reasons, it looks like
7 that's not going to work very well.

8 In our current framework, we see a
9 two-tiered system where people would engage with
10 us in a regulatory status inquiry, simply asking
11 the question is this a regulated article or not?
12 Now, I'm not an attorney, but if someone asks you
13 is my product a regulated article, and if our answer
14 is no, I'm not sure what the federal action is to
15 trigger a need for an environmental assessment or
16 EIS.

17 Does that mean that we're exempt from
18 NEPA? Of course not. We do all sorts of NEPA
19 stuff that most of you aren't aware of. For every
20 permit that we issue, authorizations, we do a lot
21 of NEPA stuff behind the scenes. But it's not EAs.
22 And we would continue to do that due diligence

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1 according to a law that we are required to follow.
2 We continue to do that. But I don't see telling
3 somebody, no, your product is not a regulated
4 article that's requiring an EA.

5 An example, our Am I Regulated process.
6 We don't do EAs for those. That's the version of
7 regulatory status inquiry that we have now, but
8 it's based on the Am I Regulated process we have
9 now. It's based on our current regs.

10 MR. JAFFE: So, just a follow-up on
11 that. So, you talked about that definition as
12 being, you know, what comes in, as being critical,
13 so if in fact, so -- and you said that it's focused
14 on risk. So you have to have a definition that
15 would be a risk-based definition, if I'm hearing
16 you correct.

17 MR. FIRKO: Our answer to that doesn't
18 represent a risk would be in the risk assessments
19 that we produce and the associated overall risk
20 analysis because a risk assessment, whether it be
21 a plant pest risk assessment or a noxious weed risk
22 assessment is just part of the risk analysis

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1 process. The other part is our other
2 considerations and other factors that are not
3 covered in your risk assessments. But like I said
4 before, we would not be regulating anything if we
5 did not offer a document that says here's why.

6 MR. MUNDELL: Hi, Scott Mundell,
7 DuPont Pioneer. So earlier today, you talked about
8 the numbers of authorizations and imports and all
9 those kinds of things that the agency authorizes
10 every year. That earlier research under this new
11 framework, how do you envision that occurring?

12 MR. FIRKO: So we would be happy to
13 receive regulatory overlooking. You know, part of
14 this whole question about what comes in is how much
15 of a volunteer system is this going to be, you know?
16 When you phrase in your regulations, you know, when
17 do you have to come and ask us the question whether
18 or not you're regulated, that's the same thing as
19 establishing how much of a volunteer program that
20 you have.

21 I would expect lots of people to come
22 and ask us so that they can get an answer about

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1 either, no, you are not regulated or, yes, you are.

2 One of the things that we plan on
3 publishing when we publish the proposed rule is our
4 initial lists of here are the things that we would
5 not be regulating under the new rules and here are
6 the things that we would be regulating under the
7 new rule. And I see that as -- and that would be
8 the regulatory status registry. I see that as
9 being contained on our web page, not the
10 regulations. I mean, it's tough to get
11 regulations done in four years now. It's tough to
12 get it done in one administration. So I see that
13 being maintained on our web pages so that anyone
14 who's interested can look at that list of whatever
15 you want to call it. If you want to call it
16 exemptions or previously reviewed, or there's a lot
17 of different things that you could call that. But
18 if your product is like one of these things, you're
19 done. If you want to come and ask us so that you
20 have a letter from us, we're happy to do that. Does
21 that answer your question?

22 MR. MUNDELL: Partially. Well, I

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1 think it's, about also the weeds the volume. So
2 I understand the up-front nature of the process,
3 but when you think about many of the large
4 multinationals that are engaged in broad swaths of
5 research into what I understand, for coming up with
6 a new glufosinate and new glyphosate, those may be
7 categorically exempted from the start, it sounds
8 like to me. But when we think about, you know, a
9 multitude of other things that -- the degree of
10 technology that each level has, just the science
11 that is available to us right now, I have a concern
12 about the agency having the staff to address all
13 of the questions that you will receive, especially
14 upfront.

15 MR. FIRKO: Thank you for your
16 concerns. Realistically, though, like I said,
17 when we publish the proposed rule in about nine
18 months from now, eight or nine months, we expect
19 to have a significant start on that list of things
20 that, okay, we've analyzed these, and we're done.

21 Now, let's get real about when we can
22 expect to find them. So if we publish a proposed

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1 rule in August, then the elections happen.
2 Nothing is going to happen until the new
3 administration comes in. Once a new
4 administration gets here in January of '16, they're
5 probably not going to want to talk about this for
6 a while, six months a year. And then we move into
7 creating a final rule and working it through
8 clearance. It's going to be three or four years,
9 I think, at best. Maybe two or three but,
10 realistically, three or four before we see a new
11 final rule.

12 We've got all that time from now until
13 then to continue adding to this list of we reviewed
14 it and you don't need to ask us about this. You
15 can if you want, you can get a letter if you want,
16 but you don't have to. And these things over here,
17 you know, actual plant pests, like citrus tristeza
18 virus or diamondback moth or pink bollworm, you
19 know, there's lots of genetically-engineered plant
20 pests that we work with, which will probably all
21 be on the okay list, unless there's some compelling
22 reason for them not to be on the okay list. But

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1 by the time we publish a final rule, I expect that
2 list to be very well populated.

3
4 Now, I'm not saying that the first year
5 is going to be easy. It's going to be hard because
6 any time you completely change operations in your
7 group -- I mean, right now, our group is -- our BRAP
8 group, the group that John Turner leads, is
9 spending a significant amount of his time reviewing
10 all of these authorization requests that come in,
11 regardless of whether they're permits or
12 notifications, doing NEPA checks on all these
13 things. When they're not doing those sorts of
14 things, they're working on petitions for
15 non-regulated status. I expect those two pieces
16 of work to go away to a large degree because I see
17 us focusing on things that we've said, okay, this
18 represents an actual risk and this is something
19 that does need to be regulated for whatever reason.
20 I expect that list to be small. I expect us to be
21 paying closer attention to things that are on that
22 list. Instead of having 11,938 planting sites

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1 that are under regulation, I expect that list to
2 be substantially smaller. So instead of
3 inspecting 10 percent of field trials, the same
4 staff can expect maybe 50, 60, 70 percent of field
5 trials. And with that communication, you know, I
6 think everybody is getting benefits out of that.
7 Incidences should go down, episodes of
8 non-compliance should go down, understanding about
9 making sure that there's no persistence in the
10 environment should go down.

11 I mean, let's get real. Our business
12 in APHIS is about protecting plant health. That's
13 our laser focus. A lot of people doing field
14 trials for whatever reason, whether they're
15 regulated by us or not, they're focused on
16 different things for the most part. Do I have a
17 product? Does this plant do what I want it to do?
18 And they're not as laser-focused on preventing
19 persistence in the environment as we are.

20 I think it helps, to the extent that
21 we're having conversations about what are the good
22 ways to make this happen, you know, one of the

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1 things about the GE wheat, I've spent a long time
2 talking about GE wheat, I doubt there are any that
3 we're aware of that would be regulated in the
4 future. So I see this requirement of having
5 permits right now as kind of a temporary solution
6 until we can have new regs. I mean, you've seen
7 the traits for a lot of GE wheat. It's on our
8 website. I mean, is herbicide-resistant wheat a
9 plant pest because agriculture was used to
10 transform it? Is it a weed?

11 MR. SAYRE: Okay. I'm Phil Sayre,
12 Keller and Heckman. Really, there's just a sort
13 of assumption that I want clarified. So it sounds
14 like we're looking from more, what's the term --
15 process-based systems to risk-based systems, and
16 I'd like some background, some clarifications
17 about what triggers the risk that results in
18 inaction. So you've already mentioned very
19 specifically a couple of different items that are
20 under consideration as posing risks, with higher
21 warnings needed by the USDA. So I'm sort of
22 assuming that between now and the summertime more

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1 of these risk issues are going to be considered by
2 the USDA. There will be, presumably, a continuing
3 dialogue up through the summer, so that a rule could
4 come out of it that bears some validity. So that's
5 my assumption, and then my question is what is a
6 process between today and this summer to talk about
7 some of these issues? Is there a particular
8 process or a particular way all these things should
9 be done?

10 MR. FIRKO: Yes, and I have to ask you,
11 on that last piece, let me be real. I keep saying
12 next summer. Well, no, no, I'm not saying it's
13 going to be longer, but, in order for the federal
14 government writ large -- because this is not just
15 about BRS, everybody's interested in this stuff.
16 In order for there to be a proposed rule published
17 next summer, we in BRS have to pretty much finish
18 our work next month and send a draft proposed rule
19 forward for clearance throughout the Executive
20 Branch in the government. So the next six weeks
21 is important for us.

22 Can we continue to talk with you up

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1 until next summer? Absolutely. We'll continue
2 to take input. But our ability to continue holding
3 that draft back from the Office of Management and
4 Budget and the U.S. Trade Representative's office
5 and the White House, you know, you just can't keep
6 pulling it back and saying, oh, oh, oh, we need to
7 make some changes here, you know.

8 So we've got to do that in the next
9 several weeks. By the end of the calendar year
10 pretty much.

11 MR. SAYRE: So I assume that we're all
12 --

13 MR. FIRKO: Risk factors.

14 MR. SAYRE: Yes, that's okay. So the
15 process then for, say, the next month or six weeks
16 is, in fact, with APHIS.

17 MR. FIRKO: Dick is our communication
18 branch chief. I think there's still a slot or two
19 open this afternoon. You know, we started with
20 eight 30 minutes. We had more requests, so we went
21 to the current sessions. You know, we're going to
22 try to accommodate, anybody who's here today, we're

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1 going to try to accommodate to have some time with
2 BRS management, whether it's me or Janet or Sid or
3 John Turner or Neil Hoffman, you know, any of our
4 senior BRS management.

5 MR. SCORZA: Ralph Scorza, USDA ARS.
6 I'm wondering how you see this, I would say, updated
7 thinking on risk based, how do you see that
8 affecting the coordinated framework in terms of is
9 this in discussion or is EPA going through a similar
10 kind of process, FDA? How do you see that
11 affecting that relationship that we have?

12 MR. FIRKO: I love these question and
13 answer sessions because it reminds me to say things
14 that I wanted to say but forgot, so thanks for that.
15 We have had a lot of questions about the
16 relationship between the effort in the Executive
17 Office of the President to review and update the
18 coordinated framework and what we are doing. So
19 I like to think of this as a diagram with just a
20 little bit of overlap, and the reason the overlap
21 is only a little bit is the coordinated framework
22 is all about, okay, you've got your statutory

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1 authority, here's how the agencies coordinate.

2 You won't see anything in that July memo
3 from the Executive Office of the President that
4 either says change your regs or here's what the new
5 regs should do. You won't see any of that, and
6 that's because that's the agency authority. We
7 have authority granted to us by the President and
8 Congress to regulate based on certain factors and
9 it's within our discretion to write those
10 regulations. And I've only worked with a couple
11 of administrations, and I've never really
12 encountered a situation where they've had to drive
13 the regulatory approaches. I've never seen that.

14 Now, the overlap piece is that our lead
15 on the updated coordinated framework is Sid Abel
16 who talked to you earlier. He is one of our small,
17 we have a small group on the 340 steering committee
18 where we're meeting two to four times a week and
19 we're hammering out what this proposed rule is
20 going to look like. He's in the office of the
21 Deputy Administrator, so he is intimately involved
22 in both of those initiatives. So they are

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1 absolutely moving in concert.

2 Now, with that said, I have briefed five
3 different offices in the Executive Office of the
4 President, and I would say that OSTP, who's driving
5 this forward, is in complete support of what I told
6 you. Their position is that maybe we're not in
7 such good compliance with the coordinated
8 framework because we're regulating things that the
9 builder of will remain anonymous.

10 MS. PREUSS: So Daphne Preuss,
11 Chromatin. We're a small seed company dealing
12 with a lot of seed technologies. First of all,
13 thanks for doing this today. It's great to hear
14 your thoughts and views and really your approach
15 to encourage streamlining. One of the things
16 that's a little challenging for us and I think it's
17 probably the case in small companies in general to
18 be in a situation, anytime any regulations change,
19 it creates uncertainty. And so the specter is
20 changing. Unfortunately, for us, it's already
21 caused us to shut down some programs while we're
22 waiting because we just don't have the investment

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1 to make if something is not going to work out for
2 us or make those return on investment numbers work.
3 Three to four years of uncertainty takes us well
4 beyond, you know, a small company's ability to risk
5 capital because of different rates of your
6 approval. What can you do, if anything, to remove
7 that uncertainty? And I know it may not be
8 possible, but I think what one impact of this four
9 years of uncertainty is certainly venture capital
10 but also equity is backing away from these
11 investments.

12 So, again, it's just a challenge that
13 we have. But we'd hate to see the nation's
14 innovations stall.

15 MR. FIRKO: Yes, I hear you. So let me
16 give you a response to that. It may not seem like
17 it's responding to your question, but I think it
18 does. The vast, vast majority of what APHIS
19 regulates is commercial activity. That's not so
20 with BRS because the way our regs are written now,
21 for the most part, 99 percent, something like that,
22 whatever, there is no commercial activity while

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1 something is regulated, and commercial activity,
2 quote/unquote, cannot happen until it's been
3 granted non-regulated status.

4 So here's the scenario. If someone
5 comes to us and they've got a plant that they're
6 interested in transforming with some trait, and we
7 do a risk assessment and it gives us pause, and we
8 say, oh, we're concerned about some noxious weed
9 risk here. Does that mean that you can't go
10 forward in commercializing? Absolutely not. The
11 vast majority of what APHIS regulates is commercial
12 activity. Instead of having people going through,
13 you know, thousands and thousands of genetic
14 constructs simply because agro was used to
15 transform the plant, if we use those people instead
16 to work with folks who want to plant something that
17 has a documented risk associated with it so that
18 that work can be done in such a way that the business
19 can go forward as it needs to go forward and we can
20 do our due diligence and earn our taxpayer money
21 by making sure that we're protecting plant health.

22 And that's a very different operational

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1 model than what we're doing now, but I think that
2 there will be problems. I mean, we've had this
3 conversation with people in the room, people who
4 are here today. You know, APHIS regulates
5 bio-control agents that eat plants. That's a
6 plant pest, right? Weed bio-control agents, those
7 are regulated. But it's commercial activity.
8 There are hundreds of companies around the world
9 that mass produce plant feeding weed control
10 agents, and we regulate that by issuing the permits
11 to go ahead and make those releases. That's
12 commercial activity.

13 That's not the way the BRS model has
14 been working. I see us moving to that in the
15 future. I think that's a very small number of
16 things, though.

17 MR. GIDDINGS: Thanks. I appreciate
18 your comments. Val Giddings with ITIF. I like a
19 lot of what I've heard here in theory, and I'm the
20 last person who would discourage a regulator from
21 thinking boldly about how to try to bring
22 regulation back into a closer state of matching the

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1 degree of oversight for a passionately presented
2 product. But where I have trouble with what I've
3 heard you say is in envisioning how you're going
4 from where we are to where you say you want us to
5 be in four or five years because, as Dr. Preuss has
6 pointed out, that four or five years can be the
7 valley of the shadow of death for small companies
8 and academic researchers working in this area.

9 What you're talking about, if I
10 understand it, is supplanting the current plant
11 pest DNA risk trigger with something else, but I
12 haven't heard any articulation of what the
13 something else in terms of a trigger that would
14 bring something in to be reviewed. But what it
15 sounds like you're doing, and I'm hoping that I'm
16 wrong, but what it sounds like you're doing is
17 something that would be accomplished by a de facto
18 process-based trigger that would capture
19 everything until you have a conversation with
20 somebody who may or may not be regulated to assure
21 them that, in fact, they fall into one of the areas
22 that you think does not present a risk under your

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1 newly-construed authorities with regards to plant
2 pests or noxious weeds.

3 It sounds like what you're trying to do
4 in you articulating a new risk-based or
5 hazard-based trigger is to build up what you
6 describe as a regulatory status registry, build up
7 a collection of case studies of stuff that falls
8 outside the regulatory purview of the new system
9 you're trying to design. Four or five years of
10 building something like that up, you'll see a whole
11 lot of stuff die. And I'm wondering if it might
12 not be a shorter path to your desired endpoint
13 simply by working more incrementally and, forgive
14 me, less boldly within the existing system and
15 working to develop categorical solutions that you
16 said vast quantities of stuff you're now reviewing,
17 which no one who has any allegiance to
18 evidence-based decision-making could defend.

19 So I'm really curious as to how you
20 produce uncertainty when a crowd is articulating
21 a less ambiguous and more clear trigger for stuff
22 to be brought in for review in a way that allows

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1 small companies, like Preuss and others, to be able
2 to look down the road to a horizon four years from
3 now without having the uncertainty kill their
4 fundraising opportunities or whatever.

5 MR. FIRKO: In the minute or two that
6 I have, I mean, we can go a couple of different
7 directions. One is please submit something in
8 writing for this about how you see that working.
9 One of the downsides I see with that is that we would
10 continue to have a regulatory trigger that the
11 scientific community seems to be unanimous isn't
12 realistic. And to the extent that we have a
13 regulatory trigger that doesn't make sense either
14 with respect to statutory authority or with respect
15 to risk, you know, I'm not sure I think of that as
16 good governance.

17 There's no doubt that there are
18 challenges associated with changing. USDA is not
19 afraid, we're not afraid of change. I would assert
20 that the reason I'm in BRS is to make changes, and
21 the change is not going to be easy for anybody. But
22 I believe that we can get to a better place with

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1 having a more science and risk-based trigger and
2 by regulating only those things that represent a
3 documented risk. Your question is a longer
4 conversation.

5 MR. FREDERICK: Real quick, Bobby
6 Frederick with the National Grain and Feed
7 Association. You mentioned trade --

8 MODERATOR GEORGE: I'm sorry to say
9 that we're out of time.

10 MR. FREDERICK: Oh, I was just about to
11 get to it, too.

12 MODERATOR GEORGE: We have to cut it
13 off at some point. I'm sorry to say it, but that
14 point is coming. So if you have a session set up
15 this afternoon, perhaps you could pursue that, or
16 if you don't have a session set up this afternoon
17 and you would like one, go to the registration desk
18 and we still have a few slots left and we will try
19 to accommodate you as best we can.

20 If you are on the phone and you have not
21 signed up for an individual session and you would
22 like to, just send us an email at

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1 brs.stakeholders@aphis.usda.gov. We will try to
2 set up a phone conversation either today or
3 sometime in the very near future.

4 If you have a meeting set up this
5 afternoon, please report to the registration desk
6 right outside here about five minutes before that
7 meeting is scheduled and we will see that you get
8 to the right place, to the meeting room, on time.

9 I'm very sorry to have to cut this off,
10 but the problem is we need to try to get some food
11 into some of these guys before they start meeting
12 with folks. So thank you so much. This concludes
13 our meeting. Please answer our email survey that
14 you will receive, and there's a comment box in the
15 back, as well.

16 Thank you all for being here. I'm very
17 sorry for the folks on the phone who had questions,
18 but we've just run out of time. Thank you also for
19 being here, and this concludes our 2015 BRS
20 Stakeholders Meeting. Thank you.

21 (Whereupon, the above-referred to
22 matter went off the record at 12:04 p.m.)

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