

UNITED STATES DEPARTMENT OF AGRICULTURE (USDA)
ANIMAL AND PLANT HEALTH INSPECTION SERVICE
(APHIS)

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BIOTECHNOLOGY REGULATORY SERVICES (BRS)

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STAKEHOLDER MEETING

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WEDNESDAY
NOVEMBER 7, 2018

+ + + + +

The Meeting convened in the Oklahoma City Memorial Conference Center, 4700 River Road, Riverdale, Maryland, at 10:00 a.m., Dick George, BRS Communications Branch Chief, presiding.

PRESENT

DICK GEORGE, BRS Communications Branch Chief
SID ABEL, Assistant Deputy Administrator for BRS
BILL DOLEY, BRS Government Relations Specialist
MIKE FIRKO, APHIS Deputy Administrator for BRS
SALLY McCAMMON, BRS Scientific Investigator
IBRAHIM SHAQIR, APHIS Associate Deputy
Administrator for BRS
PAUL SPENCER, Director, New Technologies and
Production Methods Division, USDA FAS

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

(10:02 a.m.)

MR. GEORGE: Good morning, everybody.

I'm Dick George, Communications Branch Chief here at the Biotechnology Regulatory Services. We're very glad that you're joining us today for our 2018 Stakeholders Meeting.

Those of you who attend our meetings every year may recall that last year we tried to liven things up a bit by adding music during the breaks. Last year we featured the music of John Philip Sousa: big, energetic march music. That worked okay, so we figured to do it again but maybe change it up with somebody else. But who? So, let me tell you a quick story.

I used to work at a Fortune 100 energy company. And like most places, we'd talk about other people we work with. Maybe you guys have done this yourselves. And this one guy I worked with, his name was Kevin, he had his own unique rating scale. He would judge people, and especially leadership, on whether they had any

1 Elvis. That was his criteria.

2 We'd say, Hey, Kevin, what do you
3 think of so-and-so?

4 He'd shake his head dismissively and
5 say, No Elvis. Or he'd give a thumbs up and say,
6 Elvis.

7 We were amused by this apparently
8 arbitrary rating, but it turns out it really
9 meant something to Kevin, and we all got it after
10 a while. High Elvises were the people who were
11 totally engaged in their work and passionate
12 about it, people who cared about getting it
13 right, people who really knew what they were
14 doing.

15 So, of course, Elvis Presley came to
16 mind for this meeting because all of our speakers
17 today rate very highly on that Elvis scale. So,
18 we will play some music today to give the
19 proceedings a little spark, especially to end the
20 breaks. When you hear Elvis, it means we're
21 ready to get back to work.

22 Some housekeeping details. Please

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1 set your cell phones on vibrate or turn them off.
2 We have coffee and water in the back. Down the
3 hall, out this door to the right and then a first
4 left is our little café if you'd like a different
5 beverage or something to eat during the break.

6 In your package of handouts is a list
7 of local lunch eateries. Many of them will
8 deliver to this building, and pretty quickly,
9 too.

10 As usual, we are webcasting our
11 meeting and we don't want to forget our out-of-
12 sight attendees. And by the way, those of you
13 that are online, the handouts that we are giving
14 out here today in the room are also now on our
15 website.

16 I'll ask all of you here today to wait
17 until we either get a microphone to you, or if
18 it's closer for you to walk to one of our
19 microphones, please do so before you make a
20 comment or ask a question so that our webinar
21 audience can hear. And please identify yourself
22 and your organization, if you represent one,

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1 before you speak, whether you're here in person
2 or via the web.

3 We have a court reporter who will
4 produce a complete transcript of this meeting.
5 And that transcript will be posted to our website
6 within a few weeks. That's why we need you to,
7 please, always wait for a microphone before you
8 speak, or walk to the nearest one, and identify
9 yourself. And spell your name, especially if
10 it's anything unusual, so our transcript will
11 have it right.

12 Please hold your questions until each
13 speaker has completed their presentation.
14 We've allowed time for questions at the end of
15 each segment.

16 Those of you online, on the telephone
17 keypad press 1 and then 0. This will alert our
18 moderator that you would like to speak, and we
19 will un-mute you and invite you to ask a question.
20 So, again, for online attendees to ask a question
21 just press 1 and then 0 on your telephone keypad.

22 If you prefer, you can ask a question

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1 or make a comment via the web. On your screen
2 type your comment or question in the comment box
3 and hit "enter." We'll have someone monitoring
4 this, and they'll get your question or comment to
5 us.

6 So let's get started. At this time,
7 to take a look at the year just past and the year
8 to come I'd like to introduce our APHIS Deputy
9 Administrator for BRS and a guy, I might add,
10 with a lot of Elvis, Mike Firko.

11 MR. FIRKO: Thank you. And thanks to
12 everybody who joined us here today. We currently
13 have 60 people who have joined us on the webinar.
14 If you see this little blue sticker over there,
15 Robin will be keep updating that. And based on
16 my days of estimating insect populations in the
17 field, we have about 60 people in here I would
18 say.

19 (Laughter.)

20 MR. FIRKO: Sixty-three? Okay, that
21 was pretty close.

22 Okay. Can we advance to the next

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1 slide? Can you do it manually?

2 Good. You turned it off.

3 So, for the first nine slides or so
4 I'm going to be talking about things that we
5 accomplished during 2018. It was a very
6 interesting year, very productive. We had good
7 results in several areas.

8 I always show you this one every year:
9 number of release authorizations. Down a little
10 bit from last year.

11 Number of release sites, actually
12 about the same.

13 And then the number of unique
14 Phenotypic Designations, now different from the
15 first two numbers this is for all activities,
16 meaning it includes imports, interstate
17 movements, and release authorizations.

18 Now, I should note that this number is
19 substantially lower than last year. Because I
20 had a question. Those of you who were here last
21 year may remember it. I had a question last year
22 about whether that number, 14,856 -- it was in

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1 the 40 thousands last year -- did we account for
2 redundancy across years, and across permits, and
3 across states? And my answer was I'm not sure,
4 but we'll look into that.

5 So, we looked into it and sure enough
6 there were some things that were getting counted
7 twice. So, 14,856 is the number of unique plant
8 trait mechanism of action combinations that we
9 revised during 2018 as we were considering
10 authorizations for field releases, importation,
11 and interstate movement.

12 So, in this year we completed two
13 deregulation petitions. The first one was the
14 Bayer dual herbicide. And of course all this
15 information and all of the associated documents
16 are available on our web pages.

17 You'll see here that we accomplished
18 this in 332 days. Our published time frame is
19 395 days. So about 11 months instead of 13
20 months. So, we substantially beat our target for
21 how long it would take us to complete this
22 petition for deregulation.

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1 The second one was from Nuseed America
2 for an improved omega-3 canola. This was a Path
3 2, meaning we had an extra Federal Register
4 notice with a public comment period. So, because
5 it's a Path 2 the target is 463 days. We beat
6 this one by quite a bit, about 100 days.

7 I'm cheating a little bit here because
8 we've done another one since the end of fiscal
9 year '18, so it counts for fiscal year '19, but
10 I couldn't help but point out that we did this
11 one in 362 days instead of 463. So we're, we're
12 really cranking on these things. We're getting
13 them done even more quickly than we thought
14 possible.

15 Am I Regulated? That we get. And,
16 of course, in the quote there is the typical
17 translation of what this program, the Am I
18 Regulated Program, is all about. Showing you
19 statistics for the last three years we're doing,
20 they're coming in at about a consistent
21 frequency. We are answering them in about a
22 consistent frequency. And again cheating a

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1 little bit, we've already done two in October.
2 Those will count for fiscal '19.

3 We currently have five inquiries under
4 review. All of them have been received since
5 July. So we're also answering these Am I
6 Regulated? requests very quickly.

7 Now, this is a subset of the Am I
8 Regulated? requests. These are requests involving
9 Site Directed Nucleases. I showed you this slide
10 last year, slightly modified from last year. And
11 the numbers are, therefore, updated.

12 It shows the frequency of
13 Meganucleases, Zinc Finger, TALEN, and CRISPR,
14 how many of each of those we've gotten. You see
15 that the only two Site Directed Nuclease Am I
16 Regulated? pending are both CRISPR.

17 Now, every one of these responses has
18 been not regulated. Our answer to them has been
19 "not regulated," including our first SDN 2/3.

20 Now, why do I call that a 2/3? Well,
21 there's a lot of reasons. One is that I think
22 it's fair to say that there's no consensus on the

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1 line between 2 and 3. We, based on most of the
2 literature and the papers on this, we would
3 probably call this a 3 because it is a complete
4 allele replacement. Templates involved a
5 thousand base pairs or more.

6 The requester thought of this as a
7 SDN-2 because it was cisgenic. Not sure what
8 that has to do with the criteria that I've heard,
9 but it points to maybe it doesn't matter.
10 There's SDN-1's without a template, and then
11 there's SDN-2's and 3's with a template.

12 But one of the points I want to make
13 here is in terms of our decision making, which is
14 about plant pests and weeds, it doesn't matter.
15 We don't have any legislation that tells us that
16 we need to look at SDN. We don't have any
17 legislation about biotech in particular. Our
18 legislation is about plant pests and weeds. So
19 that's what our decisions are about.

20 I also talked to you last year a
21 little bit about the permit application we had
22 received for fairly expansive -- every county in

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1 Florida -- release of a genetically engineered
2 Citrus Tristeza Virus of biologic control of
3 Citrus Greening Disease. As most of you probably
4 know, Citrus Greening is a really terrible
5 disease of citrus in Florida. The poor folks in
6 Florida have also been getting hammered by
7 hurricanes off and on over the last few years,
8 but this particular disease has been devastating.

9 This year we published a draft
10 Environmental Impact Statement that was prepared
11 in support of us issuing a permit for release in
12 every county in Florida, up to the discretion of
13 the permit holder, of this genetically engineered
14 Citrus Tristeza Virus to control Citrus Greening
15 Disease. We had a whopping 51 comments -- not a
16 lot in other words.

17 Now, I'll talk about this more in a
18 few minutes. But since we published the draft
19 EIS and draft Pest Risk Assessment there was a
20 paper published that we'll need to think about.

21 So, regarding our, the work that we do
22 with our partners in the coordinated framework,

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1 EPA and FDA, we did a lot of work on a Horizon
2 Scanning System. This comes to a large degree
3 from a National Academy of Sciences study. The
4 title of that study is "Preparing for Future
5 Products of Biotechnology." And they made a
6 recommendation about creating a Horizon Scanning
7 System.

8 Now, you're going to get many more
9 details from Sally McCammon when she gives her
10 talk in a little while, but we're very pleased
11 with this work. The three agencies are working
12 together very well on this. And we think folks
13 will like what we're doing here.

14 Now, I added this as my last little
15 bullet here because that's a heck of a URL.
16 Sally will show it again. This will be available
17 when the slides are made available. But you can
18 go, you can go in and look at this system now and
19 see what's on there. More details on this system
20 to follow.

21 Another USDA-EPA-FDA collaboration
22 has to do with the Biotechnology Unified Web

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1 Portal. And as you might guess from the title,
2 this is a single point of entry for regulatory
3 information about the United States' regulatory
4 program. This will have a dot gov URL. We have
5 had a lot of discussions with EPA and FDA about
6 hosting this as a dot gov URL. In other words,
7 it's not a USDA URL, it's not a FDA URL, it's not
8 a EPA URL.

9 And, of course, one of the major
10 efforts here is to make this user friendly for
11 any aspect of biotech regulation in the United
12 States. Fortunately, since we're building from
13 scratch we can use modern approaches to these
14 tools. And as is of interest to this
15 administration, we are thinking very careful
16 about how this might be helpful for small
17 developers, which is where we get most of the
18 questions about what does it mean to be in
19 compliance with the U.S. regulatory system, and
20 how do I do that?

21 Again, this is also partly a result of
22 the National Academy's recommendation. And this

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1 talks a little bit about what that system will
2 look like.

3 This launch is anticipated in the
4 future. I suspect that there will also be a beta
5 version available. We'll see how the development
6 goes. It will have a variety of pages.

7 At some point things will get shunted
8 to one of the three agencies because we in the
9 USDA don't speak for FDA or EPA. They don't
10 speak for us. But the idea is to make a system
11 where you can get direct information about all of
12 those programs. Some of the stuff that we're
13 still working on is to what degree will
14 particular agencies take responsibility to
15 provide answers with the agencies working
16 together in the background. Some of those
17 details are still being worked out, but the idea
18 is to make this as user friendly as possible to
19 get folks the answers they're looking for.

20 So, we're going to have a whole
21 afternoon session on APHIS eFile. I talked about
22 this in previous years. This is the replacement

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1 for our current APHIS ePermits system, electronic
2 permitting system. I think I told you that we
3 tried to be careful and called this APHIS eFile
4 because the IRS already got the name eFile. So
5 we had to be careful about that.

6 Some of the things that we're thinking
7 very carefully about is what is the transition
8 going to look like from ePermits to eFile?
9 That's one of the key things that you'll hear
10 about this afternoon if you're registered for
11 that session this afternoon. There will be
12 plenty of detail about exactly what that will
13 look like.

14 You know, our goal in moving to a new
15 system is many-fold. We have many goals. One
16 is that our current ePermit system is built on an
17 older platform. It was released in 2006. We
18 started working on it about 2001. It's well over
19 15 years old in technology. There are newer
20 tools out there. Dealing with mobile devices is
21 much different these days. Users expect a much
22 different type of user interface. We're very

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1 excited that new tools will be available not only
2 for us, because both of these systems to a large
3 degree are a workflow manager for us.

4 We come in in the morning, we boot up
5 the system, and there are work assignments,
6 things that we do. We get the assignments out
7 of the system. Behind the scenes documents are
8 being shunted from biotechnologist branch chiefs
9 back to biotechnologists. So there's a lot of
10 movement behind the scenes.

11 I've always thought of ePermit as a
12 workflow manager. But, of course, for external
13 stakeholders it is a way to come in and apply for
14 a permit electronically and to get your permit
15 electronically.

16 So we understand that transitioning
17 from ePermit to a new system is going to be
18 traumatic for all of us. We have change
19 management programs that we're doing internally.
20 And you will hear this afternoon about some of
21 the change management we're doing from an
22 external point. In fact, our session this

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1 afternoon is part of our change management.

2 Of course, as you know, we're also
3 thinking real hard about changing our
4 regulations. So, for about three years now we've
5 been asking ourselves what does our system need
6 to do under a new set of regulations? Because,
7 frankly, it's being built right now for the
8 regulations that we have right now. There will
9 be some changes.

10 As I've been saying the last couple
11 years, we anticipate not using notifications in
12 the future. Notifications are the biggest type
13 of input that we get. Now, that's a throughput
14 issue, not necessarily something completely
15 different. But we are, we're also building a
16 permitting system now as well as a notification
17 system. So if we're using only permits in the
18 future, we'll have that built already.

19 The number of changes that we need to
20 make to the system once the new regulations are
21 in place are actually fairly minimal. So, that's
22 very good news. We started work on what we call

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1 a concept of operations two-and-a-half years ago,
2 and we've been tracking that as we go. You'll
3 hear much more about APHIS eFile this afternoon.

4 So, 340. The timing on this is a
5 little interesting. I'm trying to remember. I
6 think this 340 proposed rule that was published
7 in January of 2017, I think that was withdrawn
8 right before the last stakeholder meeting. Is
9 that right? Fiscal '18, so in fiscal '18 that
10 was one of our accomplishments.

11 And, of course, the reason that this
12 rule was withdrawn is we received a lot of very
13 disparate comments. And we felt it was necessary
14 to start over, get more input from external
15 stakeholders, get more input from states and do
16 more outreach with foreign governments, do more
17 outreach with EPA and FDA. And, of course, we've
18 been very busy at that. And you'll be hearing
19 more about that.

20 But withdrawing that proposed rule set
21 the stage for a new level of engagement which we
22 could not do as long as we were in open

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1 rulemaking. And we've done quite a bit of
2 outreach on that since then.

3 This year we published a notice of
4 intent to conduct a programmatic Environmental
5 Impact Statement. So that's the little "p,"
6 programmatic, and that's because it relates to
7 the biotech program. Wow, another whopping 35
8 comments on that. I guess people aren't
9 particularly interested in biotech anymore. I
10 don't know.

11 And we have been preparing a new
12 proposed rule, a new programmatic Environmental
13 Impact Statement, and a Regulatory Impact
14 Analysis, sometimes known as the Economic
15 Analysis. And those are the things that we'll
16 be going public with.

17 So, looking forward to 2019: 340, 340,
18 340.

19 This is our number one strategic
20 initiative. I think last year I said that our
21 regulations were 30 years old. Now they're 31
22 years old. The fundamental basis of those

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1 regulations has not changed in 31 years. It's
2 long overdue. It's very difficult to do anything
3 with biotech regulations. I'm very confident
4 that we're going to be able to do something now
5 though.

6 So, our plan for 2019 is to publish a
7 new proposed rule. It would be great if we could
8 accomplish that in the first calendar quarter of
9 2019. That's our intent. We'll be publishing
10 the draft Programmatic Impact Statement at about
11 the same time. I think in 2017 that was done
12 within a week of each other. That's partly
13 because EPA is involved in publishing the
14 Environmental Impact Statement, and the proposed
15 rule - USDA has the lead on that, so getting them
16 published on the same day is a little difficult.

17 The Draft Regulatory Impact Analysis
18 will also be published at about the same time.

19 And at the end of my talk I'll have
20 more to say about 340.

21 So, we currently have five petitions
22 for non-regulated status. Our good old standby

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1 ArborGen Freeze Tolerant Eucalyptus from 2011.
2 We sent a request to Fish and Wildlife Service
3 about three years ago for consultation. We have
4 not yet gotten an answer about whether or not
5 they will entertain consultation.

6 We have the Verdeca Increased Yield
7 Soybean, the draft Plant Pest Risk Assessment and
8 Environmental Assessment are in preparation.
9 Those should be published for comment soon.

10 We have a canola product from BASF.
11 Same thing, the draft EPRA and EA are in
12 preparation. You should be seeing those in the
13 Federal Register for comment pretty soon.

14 There we go. And we have two
15 petitions that we have received quite recently.
16 And those, the petitions themselves will be
17 published soon. We are working with the
18 petitioners now on the completeness of those
19 petitions. And we typically do not announce
20 those petitions until, or identify those
21 petitions until they've been published in the
22 Federal Register for comment. But we're at very

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1 early stages. Just received. And you should
2 see those petitions in the Federal Register soon.

3 So, back to the genetically engineered
4 Citrus Tristeza Virus. It is our intent early
5 in calendar 2019 to issue that statewide permit
6 for release of genetically engineered Citrus
7 Tristeza Virus. And, of course, when I say
8 release what I mean is grafting budwood onto
9 existing trees or roots. This is not like a
10 spray or anything like that, it's a grafting
11 process.

12 I mentioned in a previous slide that
13 there was a new paper published about, about
14 these issues. It was a transmission of Citrus
15 Tristeza Virus by the insect vectors. And it's
16 pretty new. We just became aware of it several
17 weeks ago.

18 Because of some language that we had
19 in our draft EIS and the draft Pest Risk
20 Assessment we're looking at these new data to
21 decide what, if anything, we need to do in
22 response to these new data. And we'll have a

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1 better idea about what impact that will have on
2 going forward. But like I said, we don't
3 anticipate this really delaying things.

4 I spoke with the permit applicant this
5 morning, and we're completely in line with their,
6 the timing of their business model. And that's
7 important to me because my commitment to them and
8 to the citrus industry was that we will not delay
9 you. When you're ready with this important tool
10 to combat citrus greening, we will be ready with
11 the permit for you. And we're still in line to
12 be able to do that.

13 So, you'll hear more about 340
14 outreach, but this is a sampling of the sorts of
15 engagements that we've done in the past. Mostly
16 in the past -- June, July, August, September,
17 October -- six months about, we have traveled, I
18 traveled personally to I think three
19 universities. And there were multiple
20 universities at each of those.

21 Doug McKalip, Ibrahim Shaqir, Sid
22 Abel, a variety of people have visited, have gone

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1 out to universities and met with them. And we
2 reached face-to-face 17 universities in that
3 route, in that way. And, of course, we chose
4 these universities because of their involvement
5 in plant development and biotechnology in the
6 crop arena.

7 We met with a variety of non-
8 governmental organizations and thought leaders,
9 -- there's one in the audience here, I think --
10 small and large biotechnology companies, industry
11 groups, commodity groups, grain trade value
12 chain, tribes.

13 We do have some additional tribal
14 engagements that are scheduled for about a week,
15 week-and-a-half, state Departments of
16 Agriculture, of course, our federal partners,
17 other USDA agencies. And we have talked about
18 our conceptual framework with at least 50
19 countries in a variety of different venues.

20 I will say that with very few
21 exceptions our conceptual framework has been
22 received very gladly.

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1 So, this is my last slide. You have
2 in your handout package a statement from
3 Secretary Perdue about plant breeding innovation,
4 and a companion document that has as its first
5 name "Details." Let me see if I can see where
6 this is. I guess it's about the fourth or fifth
7 page in. Yeah.

8 So, the first of these two documents
9 is the press release. And the second one is
10 "Details on USDA Plant Breeding Innovations."
11 Probably most of you are familiar with this
12 already. You can take it with you and read it
13 at your leisure. Basically what this document
14 says is that we're familiar with plant breeding
15 innovations. We've been regulating in this space
16 for quite a while. And over the years, 30 years
17 of experience regulating products of
18 biotechnology, we have learned a lot about where
19 risk comes from.

20 And there are four categories of
21 modifications that we don't intend -- we don't
22 now and we don't intend in the future to regulate.

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1 And they are deletions, single-based pair
2 substitutions, cisgenic changes, or what we call
3 complete Null Segregants.

4 Now, this is where I segue into the
5 next document, because what this statement also
6 says in the details is that we do not currently
7 regulate these things unless a plant pest was
8 used in making this genetically engineered plant.
9 That caveat would go away under our conceptual
10 framework.

11 So, what I mean by that is we
12 currently have three plant pest triggers in our
13 current regulations: if a plant pest was used as
14 a vector; if a plant pest donated genes; or if
15 the organism that was genetically engineered is
16 a plant pest itself.

17 We plan on losing 1.95 of those. So
18 let me explain what I mean by that. Completely
19 dropping the vector. There's never been any
20 evidence in almost four decades that using
21 agrobacterium tumefaciens to vector genetic
22 material into a plant causes that plant to become

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1 a bacterium or makes it into a plant pest of some
2 kind. So we would like to drop that. And that's
3 what we'll be proposing.

4 One part that we are keeping in full
5 is if you genetically engineered a plant pest.
6 That's the basis of our authority. That is our
7 authority, plant pest authority. So, how we
8 regulate genetically engineered plant pests, we
9 don't really see that changing very much.

10 Now, the .95, that's the part about if
11 a plant pest donated genes let's say to a plant,
12 so the likelihood of that making a difference in
13 terms of plant pest risk is exceedingly small.
14 As a 4-decade risk assessor I don't believe in
15 zero risk. But the likelihood of using plant
16 pest DNA in a genetically engineered plant, the
17 likelihood of that creating a plant pest risk is
18 very remote, but it cannot be completely
19 discounted, so that's the .05.

20 Oh, I do need to click. Now, one more
21 click.

22 So, now let's move to the flow chart

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1 which is I think the next document. Looks like
2 this. Now, this is what all of us have been
3 doing in all of those engagements that I showed
4 you a couple of slides ago. We typically do
5 these in two or three hours.

6 I have I think two minutes, Dick, so
7 I'm going to go through this really quickly. But
8 we'll be here over lunch. We'll be here this
9 afternoon over the eFile thing. You can ask any
10 of us questions about this. So, let me very
11 quickly go through this.

12 Each of these boxes has in the upper
13 lefthand corner a little number, it's a little
14 tiny number, small font -- sorry about that, I
15 might have to get my reading glasses out. So one
16 of the reasons I started with the secretary's
17 statement, at Box 1, the orange box in the middle
18 top of this flowchart is about that.

19 So, if your genetically engineered
20 plant -- and I should take a moment to say this
21 chart is about plants, plants only, this is not
22 about plant pests, plants only -- so, if your

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1 genetically engineered plant fits into one of
2 those categories described in the secretary's
3 statement on plant breeding innovation, "yes"
4 from Box 1 takes you to Box 4, the green on the
5 left. Then the answer is that's not regulated.

6 Deletions, single-based pair
7 substitutions, those happen all of the time.
8 Every time there's a meiotic event, those things
9 happen.

10 Cisgenic, if we're talking about
11 sexually compatible species, those things happen
12 all the time. You know, we would like to back
13 away from regulating things that could happen
14 naturally in nature or through traditional plant
15 breeding.

16 The complete null segregant piece is
17 if you use plant pests but then you remove all of
18 the plant pest material, we don't see us having
19 a nexus to regulate that.

20 If the answer is you have a
21 genetically engineered plant and it is not one of
22 those four categories, then formally ask the

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1 question, "Is the plant genetically engineered?"
2 And the regulations will have a definition of
3 that, similar to what -- to the definition we had
4 in the 2017 proposed rule but not exactly the
5 same.

6 If the answer is no, it's not
7 genetically engineered, you're not regulated.

8 Down to Box 3. If it is genetically
9 engineered, then the question is, "Is this
10 something that we have looked at before?" If the
11 answer is yes, we don't want to go through the
12 same thing again. It's not regulated.

13 And, of course, this list -- we've
14 been calling it the Box 3 list -- will be
15 available on our web pages, and it will list all
16 of the plant trait mechanism of action
17 combinations that we've already rendered a
18 decision on.

19 Now, notice the horizontal light blue
20 line through the middle of the document. Above
21 that line says "developer actions," below the
22 line says "agency actions." Above that line

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1 APHIS doesn't necessarily need to be involved.

2 Now, if a developer meets Box 1 or Box
3 3 and they would like a letter from us saying,
4 no, you really are not regulated, you really
5 aren't, we'll write you that letter. That's the
6 box for it.

7 But if you don't meet any of those
8 criteria, then you go down and you may be subject
9 to regulation, we have to make that
10 determination.

11 Now, Box 7 and Box 6 are a little bit
12 different because Box 5 is new in our thinking
13 compared with the 2017 proposed rule. We were
14 hopeful that we could make decisions about
15 whether or not something was regulated before we
16 actually started regulating things, by making a
17 jurisdictional analysis. Do we have any
18 authority to be regulating this? That proposed
19 rule got blasted. People wanted permits.

20 And we've been hearing over the last
21 year from many, mostly large companies, that no,
22 we want permits. We're always going to go to Box

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1 7.

2 We're like, Well, okay. You want to
3 be regulated; we can do that.

4 What we're hearing from mostly small
5 companies and universities, they're going right
6 to Box 6. They want an answer ahead of time: Is
7 the thing that I made subject to regulations or
8 not? We will be very happy to accommodate those
9 requests. Similar to an Am I Regulated? Not
10 the same as the Am I Regulated passage, but a
11 similar idea.

12 Before you have been subject to any
13 regulation, before you've had a permit for field
14 trials, you can call and ask us: Is it subject to
15 the regulations or not? We'll be happy to give
16 that answer. We think we can do those very
17 quickly.

18 And the things that we'll be looking
19 at in that analysis are going to be the same
20 things we look at now in our Plant Pest Risk
21 Assessments. Is it a plant pest? Does it create
22 plant pest risks? Are there indirect plant pest

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1 risks? Is it a weed? Does it exacerbate
2 weediness? Are there sexually compatible weedy
3 relatives?

4 So, those are all the questions that
5 we'll be asking. The authority that we
6 anticipated employing in 340 going forward is the
7 plant pest authority. If and when -- and I hope
8 this doesn't happen -- we encounter a genetically
9 engineered plant that we think raises serious
10 weed concerns, there's regulations about noxious
11 weeds that can be brought to bear for those.

12 Now, notice there's a loop from Box 7
13 back to Box 6. If someone believes that there
14 are new data that would lead us to a different
15 conclusion, or if they're done having a permit
16 and would like to not have to get a permit
17 anymore, they can go from Box 7 into a
18 jurisdictional analysis. Maybe there's been one
19 done before, maybe there hasn't.

20 Now, as we complete these Box 6
21 analyses, those answers will feed into Box 3.
22 But every time we make a decision about a crop

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1 trait mechanism of action combination that will
2 get added to the Box 3 list, it will be on our
3 webpage about things you don't need to ask us
4 about anymore.

5 And I know you've all heard me say
6 this before, but we are so done doing glyphosate
7 resisting corn and soy, but we keep getting
8 petitions for those, so we just have to go through
9 the same thing. We want to stop doing those
10 things. We've made those decisions already.

11 So, once you clear Box 6, if the
12 answer is no, you're not regulated, that will be
13 made public. The developer can get an
14 affirmation letter and you're cleared with the
15 USDA biotech regulations.

16 Now, one or two little notes. Notice
17 that Box 3 and my emphasis on crop trait mechanism
18 of action -- and I'll say a little bit about that
19 -- that's moving away from the event by event
20 regulation, to regulation by what is the thing
21 you made? And is the thing that you made a plant
22 pest? Does it represent plant pest risks? Or

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1 is it a weed?

2 So it's a different approach based on
3 risk.

4 How far over time am I?

5 MR. GEORGE: About 10 minutes.

6 MR. FIRKO: About 10 minutes, okay.

7 We're going to have questions later?

8 MR. GEORGE: Yes.

9 MR. FIRKO: Yes. Thank you.

10 MR. GEORGE: Well, thank you, Mike.

11 Mike will be available for the breaks and also at
12 lunch if people want to follow up with some other
13 questions.

14 So, next I want to introduce a person
15 here not only on the domestic front but also
16 internationally, APHIS Associate Deputy
17 Administrator Ibrahim Shaqir, who heads up our
18 BRS International Group, here to tell us about
19 it. Ibrahim.

20 MR. SHAQIR: Thank you very much,
21 Dick, for the introduction.

22 Mike, great presentation.

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1 And now I need to figure this out.

2 Okay.

3 All right. So, I welcome everyone to
4 our stakeholder meeting. I want to welcome you
5 all. And I want to also acknowledge our
6 international partners here and visitors from
7 China and Czech Republic and EU. So, I'm sure
8 there are other international representation
9 countries, so we welcome you all.

10 So, I gave a general presentation last
11 year about our international engagement and
12 outreach. And I thought just to give you a quick
13 reminder of what we do. And then I will be
14 followed by a great colleague and friend who will
15 be expanding on the international activities and
16 implications concerning trade and updates on
17 that. Paul Spencer is here, so a great
18 presentation. So it's going to be a quick
19 overview of what we do and why we do it.

20 So, what we do is really complement
21 our international -- our biotechnology regulatory
22 approach to doing things. And we, we cannot

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1 operate in a vacuum. So, we have certain
2 mechanisms to conduct our international outreach
3 and also within government.

4 So, why do we do it? To protect the
5 plant health, support international trade, and
6 training and outreach. Protecting plant health
7 through ensuring that plant health is safe, what
8 comes into the country and also what goes out, to
9 basically ensure that the products, basic
10 products are safe and there are no international
11 implications.

12 Supporting international trade, we do
13 that through several mechanisms: with
14 coordinating with colleagues, with FAS, CONAG
15 service, cooperation with other agencies, USTR,
16 Department of States, and also international
17 partners.

18 The training and outreach, there's
19 many several ways that we do that. But I will
20 expand on that further.

21 So, these are some of the 2018
22 activities. We engage with the foreign

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1 governments where we either visited several
2 countries or have them come and visit us here in
3 the U.S.

4 We've had several, well, several
5 bilateral meetings, but there are some that are
6 standing meetings, that these are annual
7 meetings, and bilateral working groups as well.

8 We have ongoing global collaboration,
9 again through either global platforms or
10 international engagement through international,
11 where we attend international meetings and talk
12 about our regulatory systems.

13 And with all of that we do support
14 international trade and commerce.

15 So, we've had several visitors from
16 really various countries, from over nine
17 countries this year with some 87 -- 86 visitors.
18 And they basically have different backgrounds.
19 There were presentations from different
20 countries; from different sort of sectors within
21 government; government officials; scientists;
22 importers of seed, grain. And also have had

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1 journalists that come and visit us from several
2 countries who will basically talk about, you
3 know, and understand genetically engineered
4 organisms or regulatory systems and visit with us
5 and visit with other important entities that deal
6 with genetically engineered organisms.

7 There are several also kind of
8 capacity building in partnership with
9 universities. There is on with Michigan State
10 University, University of Missouri-Columbia.
11 And we've had now for the past two years National
12 Defense University. And we've had also
13 engagement with China Agricultural University.

14 The Michigan State and Missouri are
15 with their regulators, scientists from various
16 countries, from Asia, Africa, Europe, and South
17 America, Central America that come in and
18 basically have a full course on biotechnology and
19 regulation.

20 So we receive many questions about --
21 from these visitors. I've had this question, a
22 question about do Americans eat food derived from

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1 genetically engineered crops? And they believe
2 that much of what's really produced we export.
3 Okay? So, and I think this is an important --
4 my EU friend is laughing at me, but that's okay.

5 So, of course, the question, of course
6 Americans do eat genetically engineered product.

7 How do APHIS, EPA, and FDA coordinate?
8 And I think this is an important question. And
9 it's important for many of these regulators to
10 understand how we operate and how we maintain our
11 regulatory lanes, and coordinate so to ensure any
12 biotech crop products are safe. And so that's
13 an important question. And that's why we include
14 at any of our meetings where we have visitors,
15 our colleagues from FDA and EPA.

16 What resources are needed for to
17 implement a system like ours? And so that's, you
18 know, for many of these -- some countries they
19 don't have a really formalized system in place
20 for regulation. And so they come in and hear
21 about what we do. And I think that's important
22 that we share.

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1 And what is your regulatory approach
2 for new plant breeding innovation technique?
3 That's really for the past years now we have been
4 asked this question. And we have been sharing
5 with them our experience, and particularly on the
6 Am I Regulated? process and how we make the
7 determination on how to regulate or not to
8 regulate genetically engineered crops where
9 genome editing techniques were used.

10 And the last one about co-existence
11 with ag production, we basically talk about
12 collaborate work with dealing with that.

13 So, I mentioned the bilateral
14 meetings. We have a standing meeting with China.
15 Well, this is the trilateral meeting with Canada
16 and Mexico. We meet annually. We talk about --
17 we identify a theme to basically dig deep into
18 and share information.

19 The last time we met we talked about
20 our basically regulatory updates, but also we
21 talked about the chestnut blight resistant trees
22 that is genetically engineered. And we do have

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1 also a kind of quarterly discussions as well as
2 we organize scientific webinars. The last one
3 we've had was about two weeks ago, and we talked
4 about synthetic biology.

5 The meeting with, bilateral meeting
6 with China is a standing annual meeting in
7 partnership with our sister agency, Foreign Ag
8 Service. Paul Spencer was there. And each year
9 we basically share our, we share our updates.
10 And then we identify a theme that's of mutual
11 interest. And this also, our Chinese colleagues
12 asked to learn about how we are dealing with
13 citrus greening, really an important disease also
14 for China. And they want to learn about the type
15 of things we're doing in dealing with this
16 important challenge.

17 The other one, this is my one of the
18 slides before last. This is what we do in
19 support of harmonizing, harmonizing the thinking
20 around genetically engineered products. And
21 we've had some issues of great importance in the
22 U.S. but also for our international partners,

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1 trading partners.

2 So, Sally McCammon, who you will be
3 hearing from her later on, she chairs the Group
4 on Environment. And that group came up with
5 several documents, biology documents on weeds,
6 even salmon documents as well. And there is an
7 apple document. And she's doing a great job in
8 that regard.

9 So, Sally chairs that group. The Food
10 and Feed Working Group is shared by FDA.

11 So, at the last June 2018 meeting also
12 we've had stock of an important issue of great
13 interest internationally on genome editing. And
14 OECD is very much interested in really finding a
15 way to harmonize the thinking and the regulatory
16 approach to genome-edited crops, not only crops
17 but also animals.

18 And, so, the three topic areas that we
19 talked on the animal and plant applications of
20 genome editing: risk and safety considerations;
21 and regulatory aspects.

22 Excellent discussion. Very fruitful.

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1 But obviously showed the divide, and which I'm
2 sure Paul will touch on some of that in his talk.
3 So the other follow-up with that will be taking
4 place. And I think there would be a report
5 coming out soon on that.

6 So this is my quick update. And thank
7 you. And I will be happy to answer questions
8 later.

9 MR. GEORGE: Okay, thank you. Thank
10 you, Ibrahim.

11 So, as you can see, there's a lot
12 going on internationally at BRS, but we're
13 certainly not the only ones. USDA's Foreign
14 Agricultural Service, FAS, keeps its finger on
15 the pulse of biotechnology regulation on a global
16 level. And with some recent developments that's
17 a pretty big job.

18 Here to tell us about it is the
19 Director of the FAS New Technologies and
20 Production Methods Division, Paul Spencer.

21 MR. SPENCER: Well, good morning.
22 I'm here to talk a little bit about the

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1 department's international policy engagement on
2 precision breeding. But before I do that let me
3 give you a little bit of background on our agency
4 to give you context organizationally from how
5 we're engaging.

6 So, FAS, Foreign Agricultural
7 Service, is the international arm of the
8 Department of Agriculture. And we represent the
9 full range of interests of U.S. agriculture
10 overseas, from farmers, ranchers, and also our
11 food processing industry. We have 93 offices
12 with staff, and we're covering over 170 countries
13 globally. Usually we're co-located with a U.S.
14 embassy or a U.S. consulate.

15 And our overseas staff help us do a
16 lot of different tasks:

17 They help market U.S. agricultural
18 products through trade shows and other marketing
19 activities;

20 They provide commodity reporting. We
21 contribute to the department's global picture of
22 production supply and demand for major

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1 commodities;

2 And then also we provide policy
3 information and policy advocacy for -- in support
4 of U.S. agriculture.

5 And as part of this work it's
6 important to mention that we maintain a global
7 information network that provides public
8 reporting on all sorts of issues. This is called
9 the Global Agricultural Information Network, or
10 GAIN. And within this system we require an
11 annual report from most of our overseas offices
12 on agricultural biotechnology policies,
13 production, and marketing.

14 So, this is kind of a long-winded way
15 of saying that we have a unique source of
16 information globally from our offices about
17 agricultural policy. And it's from these public
18 reports and from our interaction with other
19 governments that a lot of my presentation today
20 is drawn.

21 So, you might wonder why a trade
22 agency would be so interested in the introduction

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1 of a new set of technologies like genome editing
2 and precision breeding. Well, there's some
3 direct trade-related reasons:

4 Because exports are such an important
5 part of U.S. agricultural income, if our
6 production technology is not approved in a major
7 foreign market it could lead to trade disruption.
8 You can actually have vessels turned around. It
9 could lead to the product being withheld from the
10 market by the developer. Or it could be rejected
11 by farmers or other elements of the value chain,
12 which is grains traders.

13 But I think an even broader reason is
14 that we want U.S. farmers to remain competitive
15 globally. And this means having choice. Our
16 farmers really do need to have choice when it
17 comes to production technologies.

18 And if you look at genome editing
19 technologies broadly, they really are of
20 strategic importance. They can be applied to
21 plants, they can be applied to fungus, they can
22 be applied to animals, microbes, even insects.

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1 And the long-term challenge is to make sure that
2 the foreign markets remain open and foreign
3 regulatory systems remain open to the
4 technologies our farmers choose to use.

5 Our approach, and the best way we
6 believe to handle potential disconnect between
7 U.S. innovation and foreign market acceptance is
8 to engage foreign governments early and often.
9 And we do this in the context of an interagency
10 process, and we work very closely with Food and
11 Drug Administration, the Environmental
12 Protection Agency, the Office of U.S. Trade
13 Representative, our State Department. And we
14 always engage with science and international
15 rules-based principles in mind, especially with
16 the World Trade Organization.

17 So, we're seeking, broadly, we're
18 seeking regulatory compatibility, meaning that if
19 countries can have similar approaches,
20 implemented at similar times, then this will
21 facilitate both innovation and choice.

22 So, the government's fiscal year began

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1 on October 1st. And that provides us a good
2 breaking point to kind of look backward and look
3 forward. And if you look at, if you look at FY
4 2018, it's been a really busy year on
5 international engagement with precision
6 breeding, on genome editing. In early fiscal
7 year 2018 we drew on these 93 overseas offices
8 and created a complete assessment of the
9 regulatory approaches that governments around the
10 world are taking to genome editing. Many of them
11 don't have an approach, but we do keep a
12 spreadsheet that shows where each government is
13 falling currently.

14 And subsequently we worked within the
15 department to draft an international engagement
16 strategy around genome editing. And we also
17 defined the main policy risk. The main policy
18 risk, you know, last year, as it is now I believe,
19 is the potential for genome edited crops to be
20 indiscriminately regulated as GMOs, as
21 genetically modified organisms. And if this is
22 adopted by our major trading partners, this will

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1 unnecessarily subject a whole new class of
2 production technology to restrictive and
3 potentially trade-distorting regulations.

4 And there would be a lot of results of
5 this if this happened. One result would be the
6 likely exclusion of products developed by small
7 companies and public research institutions. The
8 regulatory bar for GMOs is just too high for them.

9 And if they are, if these technologies
10 are regulated broadly as GMOs, only a handful of
11 multinational companies would have the technical
12 expertise, the funding, and the global regulatory
13 affairs footprint to complete multi-country
14 approval. Minor crops, and crops that are often
15 -- that could be improved subsistence crops in
16 developing countries would also be excluded if
17 there is too much of a regulatory burden, simply
18 because the seed sales for these crops don't
19 justify the high regulatory costs associated with
20 GMOs.

21 So, clear domestic policies on the
22 regulation of genome edited plants are an

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1 integral part of USDA's international engagement
2 plan. And we also believe that having a clear
3 domestic policy enhances the overall U.S.
4 leadership on this issue.

5 And as was mentioned, on March 28th,
6 and it's in your packet there, Secretary Perdue
7 put out his statement on plant breeding
8 innovation. And Mike's already gone through the
9 details of that, but it really has provided us a
10 solid basis from which to work as we engage with
11 other governments.

12 And essential to our strategy, as I
13 mentioned earlier, has been cooperating with
14 other governments. And immediately following
15 the secretary's March statement we followed with
16 a USDA-funded genome editing workshop in Colombia
17 that included regulators from 18 countries, and
18 including USDA crops regulator, and Mike's boss,
19 Undersecretary Greg Ibach. He gave the keynote
20 address at that event.

21 And then, as I mentioned, that had 18
22 different countries in it, and provided a real

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1 kickoff point for our international engagement on
2 this issue. Subsequently, my boss,
3 Undersecretary Ted McKinney, who deals with
4 international affairs for the department, has
5 raised this issue on each one of his visits to 15
6 different countries in fiscal year 2018.

7 So, USDA is also coordinating with
8 partner countries for activities in the Cartagena
9 Protocol on Biosafety, of which there's a big set
10 of meetings in a couple of weeks in Sharm El-
11 Sheikh, Egypt. And, as Ibrahim mentioned, we
12 also worked in the OECD.

13 And then also there is a lot of work
14 that is being done every year in APEC that is
15 funded by the Asia-Pacific Economic Cooperation
16 group that's funded by USDA. And Dr. Chao also
17 participated in those activities in fiscal year
18 '18.

19 And then, as mentioned, Ibrahim also
20 covered some of the bilateral engagements we
21 have. We have with China the Biotech Working
22 Group; the U.S.-Canada-Mexico Trilateral Biotech

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1 Working Group; and also scheduled visits by
2 Japanese regulators. So we've had a pretty good
3 state of engagement in FY '18.

4 So, this map will show some of the
5 global regulatory status that we're aware of for
6 genome editing. And there's a lot more data
7 behind this map. And we do keep an ongoing
8 running spreadsheet of regulatory approaches that
9 we're aware of. And we're happy to share that
10 with anyone in the room.

11 But let me just talk a little bit.
12 The good news is that a number of countries have
13 adopted policies that appear to innovate, to
14 support innovation in trade in genome-edited
15 products. Argentina was the first country to
16 publish a policy on breeding technique. And
17 under Argentine approach, consultations are
18 required, and the products will be regulated
19 depending on whether or not foreign DNA is
20 introduced. And decisions are made usually
21 within 60 days.

22 Now, interestingly, a decision not to

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1 regulate by the Argentine Government is not made
2 public. So that has implications for grain trade
3 and competitiveness from my perspective.

4 Well, let me go on. Brazil and Chile
5 have a functionally similar system to Argentina.
6 And I think if you're going to generalize about
7 South America, I think you can say that they are
8 setting up an innovation and science-based system
9 that will help their competitiveness.

10 Canada, as you see on the screen
11 there, they regulate based on product, using an
12 existing novel foods regulation. They regulate
13 based on whether or not the end product is
14 identified as novel, not on the process that was
15 used to create it.

16 For Australia, Australia uses its
17 Office of the Genome Technology Regulator. It
18 has proposed to regulate genome-edited products
19 where template DNA is involved, but not regulate
20 products with small random changes such as
21 deletions.

22 And also I'd mentioned two, that

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1 China, Japan, and Korea don't really have
2 specific rules in place yet. We believe China -
3 - and you can ask our Chinese representatives
4 here -- but China is operating under a draft
5 proposed policy. And that hasn't really come out
6 publicly yet.

7 Japan is developing, and we believe
8 that they will publish something before the
9 beginning of their fiscal year in April of 2019.

10 I think, though, the big news for this
11 year is what is the European Union policy and the
12 direction that they're taking. In July, the
13 European Union Court of Justice decision said
14 that newer mutagenesis techniques should be
15 regulated as GMOs.

16 And so I want to talk about this a
17 little bit more in detail. So, we view the EU
18 decision as a major setback for the potential
19 benefits that can be received from agricultural
20 genome editing technologies broadly.

21 On July 25th, the European Court of
22 Justice found that organisms produced from newer

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1 mutagenesis techniques using CRISPR, TALEN, et
2 cetera, are subject to their Directive on
3 Genetically Modified Organisms. So, what this
4 means is that the same risk assessments, the same
5 monitoring, the same labeling, the same
6 traceability laws currently applied to
7 genetically engineered products will apply to
8 gene-edited products imported into the EU.

9 Now, there's more to it than that.
10 But we're primarily concerned with the trade
11 elements of this.

12 Now, the implications of this is that
13 the European Union's global policy influence
14 could pose a threat to U.S. agriculture's ability
15 to adopt and benefit from these genome editing
16 tools. The ECJ decision emboldens the anti-
17 technology groups. And that's already prevalent
18 in EU member states such as France.

19 And in the broadest sense it's
20 negatively impacting global agricultural
21 innovation and food security. It potentially
22 takes a whole set of tools off the table.

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1 So, more narrowly, as new restrictions
2 and regulatory regulations are developed and
3 implemented, the ruling expands the potential for
4 trade conflict between the EU and the United
5 States as well.

6 So, in response, on July 2th USDA
7 Secretary Perdue issued a statement on the
8 European Court of Justice case. And I'll just
9 say I'll quote him here.

10 He says, "The global regulatory
11 treatment of genome-edited agricultural products
12 has strategic innovation and trade implications
13 for U.S. agriculture. For this reason, USDA has
14 clear science- and risk-based policies that
15 enable needed innovation, while continuing to
16 ensure these products are safe. In light of the
17 ECJ ruling, USDA will re-double its efforts to
18 work with partners globally towards science- and
19 risk-based regulatory approaches."

20 So, looking ahead to fiscal year '19
21 which we're just starting right now, our overall
22 objectives will remain similar. But we have to

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1 take into account the European policy changes
2 that are coming as a result of the ECJ ruling.
3 Specifically, the EU Commission will be looking
4 how to implement the ECJ ruling.

5 But our international policy
6 engagement will still seek to maintain and expand
7 U.S. agricultural exports; shape the global
8 policy environment in a way that preserves
9 American agriculture's freedom to innovate;
10 continue to build an active, multi-year global
11 coalition of countries in support of science-
12 based and risk-proportional regulations; and also
13 to, frankly, limit the policy influence that the
14 ECJ judgment has.

15 And we'll also be partnering with the
16 private sector to build a communication capacity.
17 One of the things that we'll be exploring more in
18 this fiscal year is how to use U.S. farmers more
19 effectively as international communicators. We
20 actually have farmers who are making money
21 growing genome-edited crops. And we think that
22 that's something that we can share with the world

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1 as part of our messaging.

2 And let me talk for a moment about a
3 recent success that we had in the international
4 policy arena, in fact last week. So, as I
5 mentioned, the United States has a long history
6 of cooperating with an informal coalition to
7 advance trade policy positions related to the use
8 of new technologies in agriculture. And since
9 May, following the secretary's statement we've
10 been part of a loose coalition of countries
11 working on an international statement on
12 agricultural applications of Precision
13 biotechnology.

14 And that, that actually, that
15 statement is included in your packet.

16 So, Argentina, with our strong
17 support, led in drafting of this statement and
18 introduced it to the World Trade Organization's
19 Sanitary and Phytosanitary Committee meeting last
20 Thursday in Geneva. And these principles, the
21 principles in this statement rearticulate the
22 commitment that all WTO members have already

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1 agreed to, to develop science-based and non-
2 distorted trade policies with regard to
3 agriculture.

4 Now, the statement is non-binding, and
5 it reiterates some high level principles
6 regarding the science-based treatment of
7 precision biotechnology. We like this statement
8 because it's very positive. You know, it's a way
9 to get countries to support enabling science-
10 based regulations, but also shows that there's a
11 broad international support for agricultural
12 innovation, despite what the ECJ ruling says.

13 And so far we have 13 countries, so
14 far 13 countries have indicated their support for
15 this statement, including Argentina, Australia,
16 Brazil, Canada, the Dominican Republic, Honduras,
17 Paraguay, of course the United States, Uruguay,
18 and a few others. The countries have the ability
19 to show their support for the statement up until
20 around the 15th in the WTO committee. And we
21 expect more countries to do so.

22 So, let me just conclude by

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1 reiterating a couple of points. We still see the
2 biggest policy threat to genome editing
3 technologies in agriculture as the broad
4 conflating of genome-edited technologies with
5 GMOs in the regulatory space.

6 There are also, just want to remind
7 everyone, we think there's strong trade linkages
8 between technology adoption and, you know,
9 between trade and technology adoption and, for
10 this reason, we need a lot more regulatory
11 compatibility internationally. And we're
12 working hard towards that.

13 I also have a little bit of optimism.
14 I think we're, you know, a number of countries
15 are off to a good start. EU will remain a
16 challenge, but I'm still optimistic that we can
17 be able to draw on these technologies in support
18 of agriculture.

19 And, finally, USDA is actively
20 advocating internationally on behalf of U.S.
21 agriculture for these, for these products.

22 Thank you.

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1 MR. GEORGE: So, we're scheduled to
2 go for a break. But I think we should pause for
3 a moment and ask if there's questions for any of
4 our speakers so far today, Mike or Ibrahim or
5 Paul, including online. If you're online and
6 you'd like to make a comment or ask a question,
7 press 1 and then 0 on your keypad and we'll open
8 your mike.

9 OPERATOR: This conference is now in
10 question answer mode. To alert the speaker that
11 you have a question, press 1 then 0.

12 MR. GEORGE: Any questions?

13 So, we'll also have an opportunity
14 right before lunch to take a few questions also.
15 But if you have questions, also these folks will
16 be available, obviously, during the break and
17 lunchtime also if you have a question.

18 So, it looks like we have a question
19 online, so.

20 MS. WANEX: One of the most common
21 questions we've gotten so far is whether or not
22 the slides are available for download. We're

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1 actually going to give everybody who's speaking
2 an opportunity to run through their slides during
3 this meeting, so they'll be available online
4 afterwards.

5 Other than that, we have a question
6 for Mike.

7 Does APHIS still have a group
8 evaluating genetically engineered insects?

9 Is there a group evaluating
10 genetically engineered insect pathogens? For
11 example, new insect-associated viruses are being
12 identified frequently thanks to sequencing
13 technology.

14 MR. FIRKO: So, in our biotechnology
15 risk analysis programs we have two branches. One
16 of those two branches is the pest branch. And
17 in that group we have plant pathologists,
18 entomologists, and a variety of other scientific
19 expertise.

20 And to the extent that we encounter
21 those as part of our biotechnology program,
22 absolutely. We do whatever analyses are done for

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1 risk assessment or risk management or decision
2 making.

3 So, yes, we have a group dedicated to
4 those efforts.

5 MS. WANEX: We had a question during
6 Ibrahim's presentation.

7 The word "coexistence" seems to have
8 different meanings in different contexts. Does
9 the speaker interpret a conflict between pro-
10 biotech versus organic/natural? Or is this a
11 foreign relations context or a combination?

12 MR. SHAQIR: I think the intent was
13 to basically when we look at these coexisting
14 functions from not the regulatory aspect, and
15 that's basically what our approach to that.

16 MS. WANEX: This question was typed
17 in during when we opened it up for questions for
18 all three speakers. So I'm not 100 percent sure
19 which one should answer. I'm just going to leave
20 it up to you guys.

21 Many kinds of genome editing had
22 significant off-target effects. The U.S. and

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1 other countries should require full genome
2 sequences to look for off-target effects.

3 It's not so much a question but it was
4 written while we asked for questions, so I was
5 wondering if anybody wanted to answer that?

6 MR. FIRKO: So, under our current
7 regulations, if we were to receive a petition for
8 non-regulated status we would look at those. We
9 always look at those.

10 Under our future regulations if the
11 product is something that could be produced
12 through traditional breeding techniques they
13 would not need to come in. And the risk would
14 be the same as if that product had been bred
15 traditionally.

16 If it is not something we've made a
17 decision on and it came into us for a Box 6
18 analysis, absolutely we would be looking at those
19 things.

20 MR. TERZI: My name is Lorenzo Terzi.
21 I'm the Minister Counselor for Food Safety and
22 Health for the European Union.

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1 I would like to thank today for this
2 opportunity to be here. We tried to take the
3 opportunity to be active partners as possible on
4 the evolution. And I have a comment and a
5 question.

6 So, the comment is that of course we
7 are aware about the implications of our court
8 ruling. But, you know, regardless of our taking
9 a position, we have to abide the ruling of the
10 court. And we have one similarity now, as the
11 court is the supreme entity institution
12 interpreting the new law. And we have to respect
13 the ruling.

14 We are aware about the challenges. We
15 are, again, of this administration it's unlikely
16 that the internal debate within the commission
17 will lead to anything before 2019, the year of
18 the elections of the European Parliament. And
19 then once the new commission, the new parliament
20 will be in place, the debate will be reopened.

21 So, unfortunately, we have to wait
22 till time of couple of years to have an evolution

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1 within the EU on this file.

2 The question is, regarding the trades
3 which are already cultivated and harvested, we
4 had a meeting last week, USTR and commission, in
5 the frame of the Executive Working Group. And
6 USTR informed us that there are already a couple
7 of events. We were already aware that this was
8 the case.

9 So I have a question. What are the
10 real commercial trades which are on the market at
11 present? We've been told about the soybean,
12 about the rapeseed. But if you could be more
13 precise of what is really of commercial value
14 currently on the U.S. field ready to be traded
15 and eventually exported?

16 MR. SPENCER: Well, thank you for the
17 question. This is a question we've gotten from
18 a number of our trading partners.

19 You know, we are keeping an eye on the
20 marketability of our products overseas. And, you
21 know, we talked to the companies that we're aware
22 of who are developing the technologies. And by

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1 and large they're produced -- they're value-added
2 products, so they have an incentive to keep them
3 in a closed loop production. And so we're not
4 really aware of any products that are in open
5 production that would be mixed with the general
6 commodities.

7 You'd have to talk to the individual
8 country -- companies that are producing those to
9 get much more detail on it.

10 MR. GEORGE: Thank you.

11 One more question, Miranda?

12 MS. WANEX: I'm trying to understand
13 this question.

14 It's the dilution of DNA sequence size
15 through genome editing question one. If you
16 could clarify that question online, I'm sure that
17 may help us.

18 MR. GEORGE: We'll give you an
19 opportunity to do that. And if you get a little
20 clarity of that, we'll take a break and we will
21 come back and we can try to -- Oops, go on.

22 MS. WANEX: We still have one more

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1 question. I'm sorry.

2 APHIS agreed with the USDA Inspector
3 General in 2011 that you would develop
4 regulations for GE effect on animals but you
5 still have not done this. Why not?

6 MR. GEORGE: And the microphone is
7 being passed to Mike Gregoire.

8 MR. GREGOIRE: It's not for lack of
9 trying, let me say that. We've made two runs
10 with that. It is updating the rule, and the
11 third time's a charm. So, we are still mindful
12 of the IG recommendations, and it's our intent to
13 fulfill the commitment we made to update the
14 regulation.

15 MR. GEORGE: Thank you, Mike.

16 So, with that I'm going to sort of,
17 we'll pause for 10 minutes. Let's come -- tell
18 you what, let's come back at 11:30, which is about
19 8 minutes from now. And then we'll go from
20 there.

21 Thanks, everybody.

22 (Whereupon, the above-entitled matter

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1 went off the record at 11:23 a.m. and resumed at
2 11:32 a.m.)

3 MR. GEORGE: Okay folks, we're going
4 to get going. Our next speaker, and I see her
5 approaching the podium now. Our next speaker is
6 BRS Scientific Advisor, Sally McCammon, who will
7 -- we'll take our seats please -- who will talk
8 about our activities regarding the important area
9 of biotech research and our engagement with the
10 scientific community. Thanks, Sally.

11 (Off-microphone comments.)

12 MS. MCCAMMON: Good morning and thank
13 you for visiting us out in Riverdale. I think
14 there's a mansion that's an old plantation that's
15 associated with this, but we've only been there
16 once I think.

17 Anyway -- with Riverdale, Maryland.
18 Anyway my name is Sally McCammon, I'm a science
19 advisor in the Office of the Deputy
20 Administrator, along with Neil Hoffman. Who is
21 also a science advisor. And that just gives you
22 an idea of the emphasis that we place on science.

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1 I'm going to try to give you a bit of
2 an overview of the kinds, our processes for
3 getting the scientific research that we need.
4 Identifying it, as well as the variety of
5 engagement that undertake.

6 Oops, hum, well, that's Paul.

7 (Off-microphone comments.)

8 MS. MCCAMMON: Okay, basically I'm
9 going to go over a little bit of the context.
10 The latest policies that we've been handed. How
11 we identify our research priorities, and the
12 variety of different engagements that we have.

13 Okay, the context is as always, it's
14 the law. It codifies our protection goals and
15 what we're charged with doing, which is basically
16 protect against pest and diseases. We've tested
17 pesticides in general, we don't do pesticides,
18 EPA does them.

19 But that's done by Congress and the
20 Executive Branch provides regulations to
21 implement the law. The science for us is
22 critical. It provides the data and information

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1 for us to do what we need to do, evaluate and
2 manage those risks. And this also feeds into
3 policies, the use of risk assessment and
4 decisions and management.

5 All right, last year most recently,
6 and this was done after the modernization of the
7 Coordinated Framework Initiative, President
8 Trump asked Secretary Perdue to put together a
9 Task Force on Agriculture and Rural Prosperity.
10 He pulled together 22 agencies, offices et
11 cetera, across the government. And by October
12 of last year, he had come out with the report of
13 the Task Force on Agriculture and Rural
14 Prosperity. There were over 100
15 recommendations, and five major Calls to Action.

16 And one of those Calls to Action was
17 Harnessing Technological Innovation. And one of
18 the major components of that was to Streamline
19 Science-based Regulatory Policy for Biotech.
20 And this involves coordination across the federal
21 government, coordination in interagency actions,
22 particularly to focus on making the regulatory

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1 system clear and available for the small and mid-
2 sized innovators, and protect consumers.

3 And the third component was to
4 Expedite Commercialization of Biotech Products.
5 So to make sure we're science-based, but to keep
6 moving.

7 So, annually APHIS and BRS internally
8 gets together to review and go over our research,
9 and update our research priorities. I think, I
10 was trying to guess how many scientists, PhDs
11 that we have on our staff including our Deputy
12 Administrator, Mike Firko. And I think it's
13 probably 40 or so. So there's a lot of interest
14 in the science.

15 And under -- these are just general
16 categories of our most recent interests, a
17 variety of aspects that have to do with
18 weediness, genetic attributes et cetera, gene
19 drives, comparison of sources of genomic
20 variation, frequency and types of variation
21 between genetically engineered plants and other
22 kinds of plants, RNAi interference, a comparison

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1 of potential unintended affects between
2 traditional plant varieties and genetically
3 engineered varieties.

4 Our primary vehicles for working on
5 these priorities are USDA's National Institutes
6 of Food and Agriculture, and the Agricultural
7 Research Service. The NIFA implements the
8 Biotechnology Risk Assessment Research Grants
9 Program, that they will implement, they manage
10 it, excuse me.

11 And yearly they come out with a
12 request for applications, usually in December.
13 And that request for applications is crafted and
14 updated by an interagency process including
15 APHIS, BRS, EPA, FDA, ARS, and NIFA.

16 Besides the request for applications,
17 we work with -- we have reviewers that
18 participate on the panel that reviews the
19 applications. And we have an internal government
20 workshop yearly with some of the principle
21 investigators that have developed the information
22 that we -- that have developed the research that

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1 we use. Shane Ball is the primary person we work
2 with over in NIFA.

3 There are five major areas that have
4 to be covered in this request for application,
5 and these are all elaborated by the research
6 agencies. And the elaborations change from year
7 to year in the RFA.

8 The management practices to minimize
9 environmental risk of GE organisms, methods to
10 monitor and understand the dispersal of
11 organisms, gene transfer to domesticated and wild
12 relatives, environmental impacts of GE relative
13 to non-GE organisms in the context of production
14 systems. And then there is, lucky for us,
15 there's other research topics.

16 Okay, how is this authorized and
17 funded? In the 2002 Farm Bill the grant program
18 was initiated to provide necessary funding for
19 environmental and risk assessment research
20 concerning the introduction of genetically
21 engineered animals, plants, and microorganisms
22 into the environment.

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1 It also later was updated to authorize
2 appropriations that come from the biotech outlays
3 for research in USDA. And that is two percent
4 of those outlays, which is one of the reasons
5 that ARS is very interested in this program too.
6 Because most of those research outlays go to the
7 Agricultural Research Service.

8 So, last year for the 2018 RFA, 35
9 proposals were submitted to BRARG and with awards
10 of 5.4 million, and made for nine research
11 proposals, and one conference.

12 We do also work with the Agricultural
13 Research Service directly. Particularly for
14 their -- they have five year strategic plans for
15 each of their national programs. And National
16 Program 301 covers Plant Genetic Resources,
17 Genomics and Genetic Improvement.

18 And we are part of the stakeholder
19 group that comes in when each of those five year
20 plans are organized and put together. There's,
21 under the Crop Biotechnology Risk Assessment
22 component of this plan, there's a component that

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1 deals with unintended effects of biotech
2 improvements on crop plants, agricultural
3 production, and the environment.

4 APHIS and ARS have recently upped the
5 ante on their coordination and collaboration
6 together. APHIS has internally put together a
7 Science Committee at the administrator level in
8 2016.

9 And they've been working to make sure
10 that we're coordinated at all different levels
11 from staff up to top management, to leadership
12 with the same counterparts in ARS in order to
13 enhance our cross agency communication in a
14 variety of ways, to identify innovative solutions
15 to prepare or prevent major problems particular
16 to pests and diseases. And to be prepared to for
17 emergencies and for responding to dynamic
18 critical research needs.

19 So, and this is across APHIS. It's
20 not just BRS, but we're also a part of this. And
21 I think Ibrahim is the BRS representative to this
22 APHIS committee.

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1 Another major -- to shift gears a
2 little bit, we also have relied a lot on the
3 National Academy of Sciences Engineering and
4 Mathematics reports.

5 One of the critical ones that came out
6 recently is preparing for future products of
7 biotechnology. And this was the third component
8 of the Modernization of the Coordination
9 Framework effort that was undertaken by the White
10 House Office of Science and Technology Policy
11 between 2015 and 2017.

12 And the Academies were commissioned to
13 do this report so that we could -- the regulatory
14 agencies hopefully could continue to prepare for
15 what's coming. And not just keep hanging onto
16 past approaches and past conceptual frameworks.

17 Another, but there are a variety of
18 reports the Academies do, whether or not we
19 specifically support them financially. One on
20 gene drives came out in 2016. But since the
21 beginning, since 1987 when our regulation was
22 finalized, we've been working with the Academies.

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1 And I'm not sure if you can see that on here.

2 Introduction of, well anyway, I can't
3 read that --

4 (Off-microphone comment.)

5 MS. MCCAMMON: Why I need new glasses.
6 And my name is not Priscilla, Priscilla Presley,
7 sorry. Darn it.

8 Okay, well I just -- anyway but the
9 Academies came out with key issues of dealing
10 with genetically engineering organisms in the
11 environment. And that was a critical paper that
12 provided the assumptions that have been almost
13 used globally around the world.

14 In that they stated that when you're
15 looking at the interaction of a genetically
16 engineered plant in the environment, you look at
17 the interaction of the crop, the trade, and the
18 environment. That those are the critical
19 components that you look at.

20 That -- the our DNA -- traits
21 introduced using recombinant DNA do not provide
22 unique risks. Or do not introduce unique risks

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1 that need to be evaluated. And a couple of other
2 critical assumptions that we still use today.

3 Currently, we are working with the
4 Academies on a new report, the Potential for
5 Biotechnology to Address Forest Health. I think
6 Mike brought up earlier that we're looking
7 towards having a Chestnut blight petitioned
8 sometime in the future.

9 And that forest health and how we deal
10 with these particular issues is going to be
11 critical. These are not necessarily -- the
12 thinking with forest health is not going to be
13 same as we're going to have with the traditional
14 crop plants in agricultural settings.

15 So, this study was funded between a
16 variety of agencies in USDA, as well as EPA. We
17 hope that this will become publically available
18 next month. And it should be presented at the
19 American Association for the Advancement of
20 Sciences meeting here in the District of Columbia
21 in Washington.

22 One of the outgrowths -- oh, not too

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1 bad, five minutes -- one of the outgrowths of the
2 future products of biotechnology's report that
3 came out from the Academies was they recommended
4 that we continue Horizon Scanning exercise. And
5 Sid Abel has been the major point person on that
6 for our agency to get -- we set up a cooperative
7 agreement with the Environmental Law Institute to
8 carry on this exercise.

9 They are an NGO. They're not a
10 government agency. But the intent is to design
11 and develop a Horizon Scanning system for the
12 future biotechnology products, consistent with
13 the NASEM report.

14 And I think Mike mentioned this
15 report. And right now it's under testing. But
16 you can see the prototype on the link that's both
17 in Mike's talk as well as right here. So, we
18 intended to at least have an idea of what's coming
19 down the pipe.

20 Another organization that we've
21 worked continuously, particularly Susan Koehler
22 of our staff, is the Weed Science Society of

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1 America. We've helped fund two major reports
2 that came out in 2012 that have to do with
3 herbicide resistance management and
4 understanding the impact of herbicide resistant
5 crops on the environment.

6 Now one of the major reasons we've
7 gotten into this is many times we as regulators
8 are called upon to solve problems that really
9 regulatory approaches are not the best way to
10 solve the problems. So we've tried to engage
11 with the appropriate scientific communities to
12 help us engage with all the stakeholders involved
13 in solving some of these problems.

14 Currently we're working on another
15 grant, and working with the Weed Science Society
16 of America to come up with strategies for dealing
17 with herbicide resistance issues with all the
18 stakeholders. And Ms. Susan Koehler is part of
19 the Herbicide Resistance Education Committee
20 which is managing this particular initiative.

21 I'll give a couple of more examples of
22 our engagement. I think Ibrahim brought up the

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1 OECD, the Organization for Economic Cooperation
2 and Development and the two technical groups that
3 work on biotechnology risk assessment and
4 regulation.

5 And the variety of documents, biology,
6 trade, and composition documents that are
7 initiated and developed by the actual countries
8 and their scientific communities. So you can
9 have a global scientific community working on any
10 one of these documents that we try to identify
11 and provide the basic information that regulators
12 need for doing their assessments.

13 We've done emerging issues,
14 particularly one in the last several years was
15 low level presence of unauthorized plant material
16 in imports. Particularly seeds and grains that,
17 well obviously seeds are intended for the
18 environment but grains can fall off the truck or
19 whatever.

20 We've also had a variety of workshops
21 and conferences on new plant breeding techniques,
22 genome editing that Ibrahim mentioned and next

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1 generation sequencing.

2 Also this year NIFA funded, has been
3 funding these Specialty Crop Regulatory
4 Assistance workshops. I think we had one in
5 2011, one in 2016, and most recently this year.
6 It's intended to really bring the innovators,
7 both from companies and academics together with
8 the regulatory agencies for two days of
9 uninterrupted access to each other.

10 So, and they let us know what they're
11 thinking about in a way which helps us to identify
12 what we need to do to help them. And they can
13 see us as humans, not just as a monolithic agency
14 logo.

15 And to put together relationships that
16 can help them be cost effective and plan and
17 design their research in the most effective and
18 efficient way.

19 One of the outcomes of a previous
20 workshop was that we, APHIS put together guidance
21 for new users into the petition process, which
22 gives recommendations of how you can interact

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1 with all three agencies in a way that's
2 beneficial to you.

3 This is my last slide, just we have a
4 variety of other informal ways that we bring in
5 science and interact. We have a journal club
6 which our staff gives presentations on new
7 papers.

8 We have four American Association for
9 the Advancement of Science fellows that we
10 currently have. We have Smriti, Tracy, Holly,
11 and Kayla. And they're sitting in the back of
12 the room kind of taking it all in.

13 And they have, they come on board with
14 the newest training, the newest understanding of
15 the science, the hands-on-science and we're very
16 grateful to have those folks.

17 We have onsite presentations as
18 scientists come in, and they call up and say, oh
19 I'm in town. We say, oh good, you want to come
20 over and give a talk?

21 Mike also mentioned outreach on 340 in
22 which we visited a variety of academic

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1 institutions as kind of a hub. To bring in
2 stakeholders from surrounding institutions to
3 discuss some of the scientific issues that the
4 scientific community is dealing with. As well
5 as to give us an understanding of what kinds of
6 questions or concerns we need to be thinking
7 about.

8 And Ibrahim also brought up that we
9 have webinars with Canada and Mexico to kind of
10 -- if we're putting on a presentation why not
11 share it with your counterparts and other
12 regulatory components of other countries?

13 So, there you go. This is the Tree
14 of Knowledge circa 1490. Thank you.

15 MR. GEORGE: Thank you, Sally.
16 Before you go, any questions for Sally? So the
17 way we're going to do this is, we have two more
18 speakers and we're going to take questions at the
19 end of each of each of their segments, the
20 questions for them. And then before we pause for
21 lunch if there are other questions for any of our
22 speakers, we'll take a few minutes to take those

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1 questions.

2 So are there any questions for Sally?
3 We have one online.

4 MS. WANEX: We have one on line. I
5 was kind of thinking this is maybe better for
6 Sid, but it was asked during Sally, so I'll give
7 it a shot. For enhanced preparedness and
8 prevention responses to potential incidents, will
9 the USDA, DOI, FEMA, ESF11 also be updated with
10 new findings and proposals as part of the USDA
11 APHIS framework revisions initiative?

12 MR. GEORGE: I don't have an answer
13 to that.

14 MS. MCCAMMON: If I understand the
15 question correctly, the USDA is thinking about
16 revising their 340 regulations. Are we
17 coordinating and apprising other agencies across
18 the U.S government about those regulations? Is
19 that -- and we are.

20 We have discussed with a variety of
21 agencies. Maybe not all of the federal
22 government agencies, but our regulation is only

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1 under our authorities in our agency. We don't
2 have a regulation that is developed to respond to
3 other authorities.

4 MS. WANEX: Thank you.

5 MS. MCCAMMON: Did you want to try?

6 MR. GEORGE: No that's it.

7 MS. MCCAMMON: Okay.

8 MS. WANEX: And to the individual on
9 line who is asking about their question that was
10 given right before the break. Any questions for
11 the former panel, is we're going to make sure
12 that we read before we go to lunch. Right now,
13 we wanted to focus on questions for Sally.
14 Unless you want me to read that question to Sally.

15 MR. GEORGE: I think we'll move on,
16 okay thanks.

17 MS. WANEX: She wants you to answer
18 it.

19 MR. GEORGE: Oh, okay.

20 MS. MCCAMMON: I'm good at making up

21 --

22 MS. WANEX: Okay, double stranded

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1 RNA, RNAi technologies have been generally
2 classified as not GMO. Now it appears there is
3 a movement to classify all dsRNA whether tested
4 or functional in any way as a pesticide that must
5 be handled with pesticide applicator
6 certification. Does this make any sense?

7 MS. MCCAMMON: There are two
8 components of the RNAis that I know -- this is
9 more related to EPA regulations -- there's
10 topically implied RNA, RNAis and there are, or
11 RNAs. And then there are those that are
12 incorporated into the genome. And in both cases,
13 I think those are EPA questions as they relate to
14 pesticides.

15 MR. GEORGE: Thank you, Sally.

16 So about six years ago we created our,
17 "Am I Regulated?" process. Last year government
18 relations specialist, Bill Doley was here to tell
19 us about plans to make that process better. And
20 he's back this year to tell us about the changes
21 that have already been implemented. Bill.

22 MR. DOLEY: Thank you, Dick. Good

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1 morning everyone -- what have we got for slides
2 here? Oh, here we go.

3 As Dick mentioned, I reported on this
4 last year. We did a business process improvement
5 project in 2017 to make some improvements to our,
6 "Am I Regulated?", process. And last year I told
7 you about what our plans were. And this year,
8 it's what we've implemented and what we've
9 completed. And if some of this looks familiar
10 it's because some of it is. Because I'm using a
11 few of the same slides before I get to the new
12 stuff.

13 And this one here, benefits of AIR
14 process, somebody reworded it nicely so it's
15 better than before. But really the bottom line
16 is here, we don't want to spend resources
17 regulating things that aren't regulated articles.
18 It's not a good use of our resources and I would
19 go out on a limb and say you'd probably agree.
20 You don't want your things regulated if they
21 don't need to be.

22 So the process has to do with the

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1 definition of a regulated article. And because
2 the definitions will be complicated, it's not
3 always that easy to self-determine if you're a
4 regulated article or not. So you can write us a
5 letter. And we have instructions on our website
6 about what we want to see in the letter, so we
7 can respond and analyze your question
8 appropriately.

9 Since we started this in 2011, so it's
10 been seven years, we've answered 70 of these
11 inquiries. And I'm going to guess based on
12 Mike's presentation that last year this slide
13 said 56, because we did 14 over the last year,
14 something like that. And a lot of these relate
15 to new plant breeding techniques. And of most
16 interest really is the genome editing. So we've
17 had a lot on where people have created products
18 using site-directed nucleases.

19 You can't see that too well, but if
20 you go to the website you can look at all of the
21 inquiries and responses. So after we complete
22 them, we post them on the website. So all 70 are

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1 up there. And you can't really see too well, but
2 right here it says description. And that's a big
3 field there, and what I'm going to mention in the
4 end is we have some ideas to improve that
5 presentation.

6 So the analysis is basically a legal
7 analysis of whether, what you describe meets the
8 definition of regulated article. So there's two
9 main components. Is it altered or produced
10 through genetic engineering? And is the donor,
11 vector or recipient a plant pest?

12 And of the 70 that we've looked at,
13 three have been regulated articles. Bad news for
14 those people, they were hoping otherwise. The
15 31 at the top, where it says no plant pest
16 components, most of those are genetically
17 engineered plants that were made with biolistics.
18 But there was no plant pest component in the
19 donor. And the vector was biolistic, so it's not
20 there either. So most of those are actually
21 genetically engineered plants.

22 And when you get to the second

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1 category, the site-directed nucleases. This is
2 where in most cases, you're making a genetically
3 engineered plant. And then after you stop it,
4 you have something that only contains a deletion.
5 And then it's not regulated because there's no
6 plant pest components incorporated. And you
7 could argue about whether those are genetically
8 engineered or not.

9 So now we're into the business process
10 improvement project. We had three main goals.
11 We wanted to make our responses more predictable
12 in time frame. And to have less variance around
13 those times. And to make the responses
14 consistent from a technical and policy
15 standpoint.

16 And I was just thinking today that
17 number three could actually work against number
18 one. And that's one of the things we've been
19 doing is trying not to implement things that slow
20 it down, to get number three accomplished.

21 So we have three things I'm going to
22 tell you about that we improved. First, we redid

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1 our Standard Operating Procedure to take into
2 account places in the process where we, where
3 things that slowed us down, to get past those
4 things and move them along faster.

5 Also there was a bunch of checklists and
6 other documents associated with the SOP to help
7 the process be consistent. The Triage Review
8 Committee was something we implemented to work on
9 that third bullet about technical and policy
10 consistency.

11 So we have a group of, oh, five people
12 who look at these increases as soon as they come
13 in and try to flag significant issues so we can
14 be on top of them right at the beginning instead
15 of having them bite us at the end of the process.

16 And the third thing we implemented --
17 that was two, let me go back here. Oh, those we
18 implemented right after the stakeholder meeting
19 last year. So those have been in place for a
20 year.

21 And then this third one here is
22 something we just got out last month, or two

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1 months ago. But we updated our guidance for
2 developers.

3 And this had two main purposes because
4 we've had a lot of delays with the confidential
5 business information aspects of the increase not
6 being formatted properly. Or we didn't get all
7 the copies. We have to have the CBI, and the CBI
8 deleted on the justification.

9 Sometimes that holds us up for up to
10 a month in the beginning. So we've tried to make
11 that more clear and actually we redid our CBI
12 instructions too. So those are hopefully easier
13 to follow.

14 And then we also want to reduce delays
15 due to requests for additional information. So
16 we try to make real clear what the information we
17 need in that guidance so that we can complete the
18 analysis without having to come back and ask for
19 more.

20 So we have a little bit of data. When
21 we did the BPI, we had BPI data. So it was data
22 that we looked at going into the project. So we

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1 had 24, "Am I Regulated?" that took about eight
2 months each to complete. And now we have what
3 we call the control phase in the BPI process, the
4 generic process, the last step is called control.
5 Where you, basically you're supposed to be
6 looking at whether your improvements are working.

7 And so we haven't actually completed
8 all our improvements. So this control phase
9 should get better after we implement more things.
10 But you can see there we've basically cut the
11 time in half from eight months down to three and
12 a half in the ones that we've completed since.

13 And the last improvement we have in
14 mind is to improve the website display. That one
15 column called, description, we intend to divide
16 it into all these columns, species,
17 transformation method, genetic alteration,
18 phenotype. And that would allow you to sort or
19 allow people to get more information about these.
20 And to zero in on the ones they want to look at.

21 And right now, we don't always provide
22 all that in the -- you can't search for all those

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1 things. You'd have to go in one at a time to
2 figure out what some of those things are. And
3 hopefully that will be up soon and you'll like it
4 better. And that's all for me.

5 MR. GEORGE: All right, thank you,
6 Bill. That's a very brisk pace. We're almost
7 back on time even, just a little behind. Any
8 questions for Bill?

9 (No audible response.)

10 MR. GEORGE: No? Questions on line,
11 no. Okay, we'll move on. USDA has been working
12 with FDA and EPA on the Agricultural
13 Biotechnology Education and Outreach Initiative,
14 a lot of syllables there. Our own Assistant
15 Deputy Administrator, Sid Abel, has been a member
16 of the Steering Committee and is here to fill us
17 in. Sid.

18 MR. ABEL: Thank you, Dick. Good
19 morning everyone. All right, let's get started.

20 So this time last year we, our
21 colleagues at FDA opened up their session with
22 supplying information to everyone that we had

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1 begun this initiative to provide information to
2 consumers on biotechnology and the products
3 thereof, in a way that would be understandable to
4 them, scientifically based, unbiased type
5 information.

6 That was an offshoot of a 2017
7 Congressional appropriation of about \$3 and 1/2
8 million, or \$3 million. And then again in 2018
9 they were granted another \$1.5 million. The
10 total of \$4 and 1/2 million to build this
11 initiative.

12 They are working with us and USDA and
13 FDA to provide this information to the public.
14 The tentative timeline is to produce a final
15 product in the way, in the terms of some type of
16 material. I'll get to that a little bit more
17 later on, by the end of this fiscal year, in the
18 fall of 2019.

19 So in addition, FDA has built some web
20 pages for people who are interested in this
21 project, to go there and see the progress of the
22 work that's being done by the three agencies.

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1 So in establishing this initiative,
2 FDA created a Steering Committee that's put into
3 place to kind of give guidance to the project,
4 make decisions on the project, review materials,
5 and those kinds of activities.

6 And underneath the Steering
7 Committee, there's four workgroups. And these
8 workgroups are the ones that are actually doing
9 the work to build the products that will be part
10 of this initiative.

11 One of the workgroups that we have in
12 there would be a workgroup like, the External
13 Input Workgroup. There's also a Consumer
14 Research group as well. There's the Education
15 Outreach group itself, which is actually building
16 the material for us. And then there's a
17 Stakeholder Update group that provides
18 information to the stakeholders on these updates,
19 answer inquiries, and things like that.

20 In addition to those things, we have
21 about 60 people in total, maybe a little bit more
22 than that, because I added more people from USDA

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1 to this group that are actually working on this
2 initiative. So, we've got a pretty large cadre
3 of people that are working on this.

4 The project is built around building
5 some form to the research, around the area of
6 consumer attitudes toward biotechnology. What
7 they respond to? What they know about
8 biotechnology? Where they get their information
9 from on biotechnology? And we're using this
10 information to guide us in how we're going to
11 prepare material that would be useful to them.

12 So we've done this through a number of
13 ways. We've done this through a series of
14 literature reviews, which are being conducted by
15 a contractor. We've held some, what we call
16 audience listening analyses, I'll get to that in
17 just a second.

18 We've done some social listening
19 groups as well. We've done some focus groups,
20 which I'll give you some more details on in just
21 a few minutes. And all this is geared toward
22 obtaining the latest information on consumer

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1 messaging.

2 So the public listening sessions, back
3 in November of last year, we started off along
4 with opening up the docket for comments from the
5 public. Two listening sessions, one in North
6 Carolina, the other one in California to get
7 information from the public on the kind of
8 information that would be useful to them in
9 learning more about the products of biotechnology
10 and how biotechnology affects them.

11 Whoops, I lost a slide here, guys.
12 Okay, I'm going to jump. We'll come back to that
13 slide I was just on because that's the closing
14 slide. Got them out of order.

15 So, I want to kind of just stop here
16 just for a couple of minutes. The docket, we got
17 about 600 comments, and we've analyzed those
18 comments. We had the listening sessions. We
19 gathered that information, and you know, we've
20 analyzed that information. And using all that
21 information, we decided to hold a couple of focus
22 groups.

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1 First one was back earlier this year,
2 February-March, and the one we just completed was
3 in August and September. The first listening
4 group we kind of gauged the consumer's
5 perceptions, motivations, beliefs, feelings,
6 attitudes towards biotechnology.

7 And then using that information in
8 another focus group, we built materials and then
9 shared that material with these consumers to test
10 their response to the materials and themes that
11 we built.

12 And we've centered those two themes
13 around knowledge and empowerment. And then we
14 added some taglines to that as well. So it says,
15 Feed Your Mind, it's rather hard to see on the
16 slide that's up there. But there's a little
17 tagline on the bottom that says, Feed Your Mind.
18 And then there's another one about, you know,
19 Know Your Food.

20 The tagline for, Feed Your Mind, was
21 one that resonated very well with the public.
22 And it was information that, you know, that they

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1 thought if they needed they can go to, to get, by
2 the fact that we have these presentations.

3 These focus groups were made up of a
4 wide variety of people. We had various age
5 groups, educational levels, demographics in terms
6 of race, in terms of ethnic background. We
7 stratified these groups in a way that we can get
8 information that would be useful in building
9 these various materials. And then as you can
10 see, we put together some things, some slides to
11 get the response from those.

12 Some of the things we heard from the
13 public during the course of these focus groups is
14 that they didn't know the basic facts about --
15 and I'm going use the word GMO from this point on
16 because they, that word resonates with them
17 better than GE, bio-engineered, and other terms
18 are used to represent genetically engineered
19 products.

20 But they just didn't know the basic
21 facts about genetically modified organisms. But
22 they wanted to know. So we knew we had an

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1 opportunity there. Didn't know the facts, but
2 they wanted to know those facts.

3 They had general negative feelings
4 about GMOs, but they couldn't say why. They just
5 had generally negative feelings about that. They
6 felt that GMOs contributed to health problems,
7 obesity, allergies, cancer, other ailments. But
8 again, they didn't have the facts that would link
9 those things together. More often times,
10 confused GMOs with things like hormones,
11 pesticides, antibiotics, obesity other things
12 like that.

13 And then they were ultimately very
14 skeptical about information from the FDA, other
15 government agencies, and very skeptical about the
16 overuse of the word safety. Every time they had
17 conversations, or they read materials from
18 government agencies, it always had a heavy focus
19 on safety.

20 So with this information in hand, and
21 the outputs from these two focus groups, we
22 decided, we came to some conclusions about some

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1 opportunities we had in terms of building this
2 material.

3 And the first and foremost is that
4 food is very personal. And so we felt, you know,
5 we decided we needed to use the human angle that
6 was value based to that consumer, to put together
7 these materials.

8 Consumers make many decisions on
9 health, wellness, and especially nutrition. And
10 they want their answers about this information to
11 be very brief. We got that out of these focus
12 sessions. And they wanted to connect what was
13 important to them.

14 So we decided that maybe the approach
15 of using storytelling may be helpful. And the
16 storytelling, not from the perspective so much of
17 a federal regulator, but from say, an academic
18 who they trusted very well. Or from a farmer,
19 or from a nutritionist, or from a physician.
20 Those kinds of people providing storytelling to
21 the consumer resonated well with them.

22 And if we were going to use the word

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1 safety, we wanted the word safety to be used in
2 the broader context, not in and of itself. We
3 also decided it was very important for us to
4 address head-on the issues of pesticides,
5 hormones, additives, and other things, rather
6 than letting that stay in the background
7 unaddressed by the federal government.

8 And so in sum, we wanted the message
9 -- it needed to be upbeat, it needed to be
10 positive, it needed to resonate with those
11 consumers.

12 And so these materials that you see up
13 on the screen here were just the things we shared
14 with the consumers. We got their feedback.
15 We're going to go back using all this
16 information. We'll modify these pictures. Have
17 it more connection with a person and the food.

18 And then again, later on in this year,
19 probably sometime this fiscal year, we're going
20 to do another set of focus groups to get those
21 final responses to the material we get out.

22 So let me go back to this frame so

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1 that you know what the next steps are. So we're
2 going to use this, so called "formative research
3 and guidance" from the Steering Committee to
4 develop these final educational materials.

5 The materials will take the form of
6 videos. They make take the form of fact sheets,
7 story boards, or storytelling, and some various
8 types of infographics. We're going to use every,
9 at least to the extent we can, every possible
10 media to be able to share this information with
11 the consumer.

12 We also understand that consumers want
13 basic quick answers to things. So we're looking
14 at maybe a 101 level type information to the
15 consumer. If they want to know more about a
16 particular product technology issue, or a
17 product, they can then go to what we would call
18 a 201 level and get more information out of it.

19 And the last thing I want to just
20 mention real quickly is that, you know, there's
21 the Bioengineered Food Disclosure Law that's in
22 the process. The whole initiative will be

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1 updated relative to the outcome of that final
2 rule once it's been published.

3 And so we've got a lot more work to
4 do, and again the tentative initial launch will
5 be sometime in the fall of 2019, once all these
6 materials are finalized.

7 And let me go back. And so I
8 mentioned the webpage -- there we go. So the
9 webpage is up for USDA. You can go to USDA's
10 webpage, there's Google in there for the, for
11 this initiative. And it should bring up their
12 page and you'll be able to read what we're going
13 in terms of the initiative. So that's the update
14 of this.

15 I think by the next year there will be
16 a lot more information provided to you at the
17 Stakeholder Meeting. The perspective is
18 hopefully by then we'll get everything done.
19 We'll see. With that I'll take any questions,
20 Dick for this group. And then we'll turn it over
21 to questions for all of the speakers.

22 MS. WANEX: We have a question on

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1 line. Which social engineering venues are
2 targeted?

3 MR. ABEL: Okay. That, we haven't
4 made a final decision on those venues. And I
5 think by venues you mean things like, YouTube's
6 type venues. If that's the case, what you mean
7 by venues there's a good chance that we would use
8 those kind of techniques. But there will
9 certainly be web-based.

10 MS. WANEX: They asked, Reddit.

11 MR. ABEL: Reddit?

12 MS. WANEX: Reddit.

13 MR. ABEL: It's certainly an
14 opportunity to use that. I'm a little bit
15 familiar with it, not that much familiar with but
16 it's certainly something we'll take into
17 consideration.

18 (Off-microphone comments.)

19 MR. GEORGE: Okay, so I will invite
20 questions for any of our speakers. Before we go
21 for lunch, I think there were some, might have
22 been some questions we didn't get to. If anybody

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1 has questions for any of our speakers? So far,
2 we'd be willing to take them now.

3 I will mention that for those of you
4 in the room, our speakers will be around during
5 lunchtime if you wanted to ask your question
6 personally, get a one-on-one answer, but -- no?

7 MS. WANEX: We've had two questions
8 that have been waiting since we broke. I
9 wanted to go ahead and make sure that we got to
10 them.

11 The first question is, is there any
12 limit on deleted DNA sequence size for genome
13 editing?

14 MR. FIRKO: No.

15 MS. WANEX: Nope, and the next
16 question is addressed specifically to Dr. Firko.
17 It says, I would like to read the new study on
18 Citrus Tristeza Virus Transmission. Can you
19 provide a citation? Thank you.

20 MR. FIRKO: If you provide us with a
21 mailing address, email address whatever, we'll
22 make sure you get that.

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1 MS. WANEX: Type that into the box.
2 I can make sure that we get you a copy of that
3 document.

4 We've had a couple more questions come
5 in. It looks like some folks are still typing
6 them out, so if you want to switch to the in the
7 room questions for a few minutes, we can come
8 back and make sure that everything here gets
9 addressed.

10 MR. GEORGE: Other questions in the
11 room?

12 MS. WANEX: You're welcome to raise
13 your hand, or come up to the microphone.

14 MR. GEORGE: I think we have one in
15 the back.

16 MR. GIDDINGS: My name is Val
17 Giddings. I'm with the Information Technology
18 and Innovation Foundation. I have a question for
19 Sid about the outreach education, and outreach
20 plans that are being developed.

21 It seemed that most of what you were
22 thinking about as to materials to be shared in

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1 these outreach efforts, you know, it was written
2 documents that could be posted and shared on the
3 web, things like that?

4 Have you contemplated more active
5 engagement such as, Ask Me Anythings, on Reddit?
6 Or you know, engaging in pushing some material
7 out by social media, like Twitter and Facebook?

8 I think those are the places where the
9 disinformation coefficient is highest. And so
10 arguably those are the places in which the
11 opportunities for getting return on the
12 investment that Congress has made in this
13 outreach, would be highest.

14 So I'm curious as to, you know, what
15 thoughts you might have along those lines?

16 MR. ABEL: Excellent question and
17 good timing actually. We are in the process of
18 looking into what we will call amplifiers of our
19 information. Those people that we would use to
20 push this information out, for us.

21 So, go to -- we have mentioned here
22 like using perhaps information that we can share

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1 with STEM schools, or STEM teachers to push
2 information to students at the youngest age
3 possible.

4 And one of the things we've been
5 looking into, these storytellers that we would
6 get to, or recruit to provide information on
7 biotechnology and the products thereof. We're
8 using them as well to push information out.

9 So yes, that's one of the things
10 that's in consideration like now, is what will be
11 the material that we'll actually create? Whether
12 they're in hard copy or on the web? And then of
13 course YouTube and things like that we'd also be
14 considering, yes.

15 MR. GEORGE: Thank you. Take it?

16 MS. WANEX: Anyone else in the room?

17 MR. GEORGE: Anyone else in the room?

18 No, so we're going to online.

19 MS. WANEX: Currently are grants only
20 available to non-profit and government agencies?

21 MR. GEORGE: Sally, I think that one
22 is for you.

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1 MS. MCCAMMON: That's a good
2 question.

3 MR. GEORGE: You need a mic.

4 MS. MCCAMMON: Sorry, I don't know the
5 exact answer to that. It's a good question. I
6 think you can look up on the NIFA website just
7 with the Biotechnology Risk Assessment Grant
8 Program. And it'll give you last RFA, which will
9 have all the context and background on that, as
10 to who can apply and who can't.

11 My sense is, you know, non-profits.
12 I don't know about for-profit entities, but the
13 information is available. I basically just
14 focused on the actual substance of what's in
15 them, the RFA. But there's a lot of other
16 language that can give you the who can apply and
17 when you need to apply.

18 MR. GEORGE: Thanks Sally.

19 MS. WANEX: Next we have a comment for
20 Sid, and related to Margaret's question. Those
21 methods that you mentioned, the videos, the
22 interactives, have all been effective in my

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1 opinion in DoD website updates for better viewer
2 interaction.

3 It's -- I think this is more of a
4 comment. The methods that you mentioned, the
5 videos, the interactives, have all been effective
6 in my opinion in BOD website updates for better
7 viewer interaction.

8 MR. GEORGE: Thank you.

9 (Off-microphone comments.)

10 MR. ABEL: Sounds more like a
11 statement than it does -- sounds more like a
12 statement. And we would agree with that. Yes,
13 those are effective ways of communicating.

14 MS. WANEX: The FDA includes
15 pesticide residues in the family diet survey
16 every year. Can the FDA change the study to
17 include pesticide residues from eating GMO
18 products?

19 MR. ABEL: I'm not sure that I can
20 answer that question completely. But I can say
21 that the foods that are included in the FDA or
22 USDA's food survey that they conduct are

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1 irrespective of whether or not they're
2 genetically engineered, or sourced from
3 genetically engineered materials.

4 It's very possible that many of the
5 foods that they're actually doing surveys on and
6 collecting these residue data, do include
7 products that are sourced from genetically
8 engineered products.

9 MS. WANEX: That's it for the
10 questions we've gotten on line.

11 MR. GEORGE: Other questions in the
12 room?

13 (No audible response.)

14 MR. GEORGE: Okay, so we're going to
15 break for lunch. I'm going to make a quick plug
16 for the afternoon session on eFile. It's
17 something you've been hearing about for a while
18 and it's going to be within 2019. So we'll give
19 you a little sneak peek how that's going to work.
20 So we hope you stick around for that.

21 And when we convened, there's
22 information in your handouts about local eateries

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1 and some of which will deliver. So please take
2 advantage of that. And Elvis will call you back
3 at 1:30. Thank so much.

4 (Whereupon, the above-entitled matter
5 went off the record at 12:23 p.m. and resumed at
6 1:31 p.m.)

7 MR. GEORGE: So as you all know for
8 the past couple of years we've been working on a
9 replacement for ePermits, our electronic
10 permitting system. That system is APHIS eFile.

11 Here to tell you about it is our APHIS
12 eFile team, and they will be running this
13 afternoon's session, starting with the Chief of
14 our APHIS MRP Digital Support Offices, Laura
15 Lewandowski. Laura.

16 MS. LEWANDOWSKI: Good afternoon.
17 Thank you very much. I appreciate the
18 introduction. My name is Laura Lewandowski.
19 And I work in MRP IT, which is part of APHIS.
20 And I work for the Digital Services support
21 office. And our office is responsible for the
22 implementation of APHIS eFile.

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1 So today our main focus of this
2 session is to provide a demo for you. But before
3 we do that, we're going to take a few minutes
4 just to talk a little bit, to give you a little
5 bit of context, a little bit of history, maybe
6 answer some questions about why we're making this
7 change in the first place.

8 So for this session, we're going to
9 talk a little bit, like I said, about why we're
10 making the change. So we're going to tell you
11 about what's going on inside of APHIS and then
12 beyond APHIS through the Department USDA so that
13 you can understand what some of the drivers are
14 in making this change.

15 We're going to go through the demo and
16 run through and show you what an actual
17 application is going to look like. My first
18 caution is that the application and the solution
19 is not completely finished. We are in the middle
20 of the implementation.

21 So we're going to show you the
22 functionality that has been built now. But know

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1 that in three months' time or so there's going to
2 be additional functionality. So this is the
3 first peek.

4 And we're going to continue our
5 communication on how this implementation is going
6 and continue to talk to you about what the
7 improvements are that you're going to be able to
8 see.

9 And then we're going to have Q&A after
10 the demo. And then to close out talking about
11 preparing and forwarding an APHIS eFile.

12 So to talk about modernizing IT in our
13 mission area, I will start by saying that it's
14 been a real vision for Secretary Perdue to
15 modernize IT systems to have your USDA in line
16 with what you expect to see in industry. But
17 also, you know, and probably even more
18 importantly, so that people who are stakeholders
19 of USDA can expect a similar look and feel, not
20 feel like they are off, you know, going from one
21 silo to another silo. So making sure that we're
22 doing this in a well-planned and consolidated

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1 effort.

2 To talk to you a little bit more about
3 that, I want to introduce Mark Davidson. Mark
4 Davidson is the Deputy Administrator for MRPBS,
5 which is Marketing and Regulatory Programs
6 Business Services.

7 MRPBS is in charge of our mission
8 area, not just APHIS, but marketing and
9 regulatory programs, which includes APHIS, which
10 includes AMS and the former GIPSA.

11 And Mark, before becoming MRPBS Deputy
12 Administrator, has a history of being a champion
13 for eFile. Mark came to us from Veterinary
14 Services. So he's a Doctor of Veterinary
15 Medicine, and he was a steering committee member
16 on the VS side of the eFile implementation.

17 So we're very fortunate to have Mark
18 as Deputy Administrator overseeing this project
19 and all of the experience that he brings from his
20 earlier days as an eFile champion.

21 And so without further ado, I want to
22 introduce Mark Davidson.

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1 MR. DAVIDSON: Thanks, Laura, and
2 good afternoon, everyone. We appreciate you
3 staying and joining us for the demo today.

4 I want to talk a little bit about, you
5 know, why we're modernizing APHIS permitting.
6 And if we can go to the next slide. Oh, I've got
7 the clicker. Oops. There we go so.

8 So one of the things as we're moving
9 forward, you know, we've been on the ePermits
10 platform for about 15 years. And it served all
11 of us very well and has been a good mechanism for
12 us to handle all of our permitting issues in
13 APHIS.

14 However, as we start to move forward,
15 we need to look at all of our legacy system. And
16 ePermits is built on an outdated technology,
17 ColdFusion. And as we move into these older
18 systems that very heavily rely on custom coding,
19 we experience increased maintenance costs.

20 And we have some of the lack of the
21 flexibility of where we want to go as we modernize
22 our business solutions and scale up across all of

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1 the APHIS and AMS platforms in using different
2 things.

3 Right now there's a really good
4 opportunity as we're working to embrace digital
5 transformation in the federal government. And
6 Doug will talk with you all in a little bit, but
7 USDA is a leader on that forefront in partnering
8 with the White House and the General Service
9 Administration.

10 I think another important thing is
11 that permitting is the first part of what we're
12 building on this platform. And we're looking to
13 a lot of our different functions, including
14 certifications, registrations, licenses to build
15 off of this platform and be able to support just
16 one platform within APHIS.

17 So what are we hoping to accomplish
18 through our steps here? And we're looking
19 towards implementation in the spring of 2019 with
20 the APHIS eFile BRS release.

21 Now BRS won't be the first component
22 out. We're already doing live dog permitting

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1 with our animal care units. We also have started
2 with registration renewals with animal care.

3 So we're doing some work right now
4 utilizing the eFile system. But BRS will be our
5 next and one of our bigger, more complex pathways
6 that we're addressing as we go forward.

7 And there's three really important
8 areas. First, we want to have an improved
9 customer experience. That's for you all and also
10 for all of our staff that is using eFile. We
11 want to take advantage of some of the newer more
12 flexible intuitive user interfaces, things you
13 would experience as you're doing your banking and
14 other types of internet transactions that I'm
15 sure all of you do every day in your life.

16 We're hoping to use this to improve
17 our business workflows and reduce our submission
18 times, give us some more collaboration tools
19 within the system and have an increased system
20 reliability.

21 And some of the ways we're going to
22 get there is through a more sustainable IT path.

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1 We're using the Salesforce platform, and it's a
2 platform being used not only within APHIS but
3 also strongly within the Department, USDA.

4 We're trying wherever we can to use
5 the more off-the-shelf functionality out of the
6 software. And this gets it where it's easier to
7 maintain your code updates and all of that. We
8 rely on the vendors to help us update and move
9 forward with this.

10 As we bring together all of the
11 information with APHIS, we've got a data
12 management plan with it. And this modern
13 infrastructure helps us from our deployment time
14 frames, our cybersecurity and the enterprise
15 approach within the marketing and regulatory
16 programs.

17 And it all ties into how we work and
18 we support the OneUSDA initiatives around
19 technology. And as I mentioned USDA is embracing
20 Salesforce in a number of platforms. And we'll
21 use this for the system enterprise for our
22 overall CARPOL project. I mentioned

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1 certification, registration, those types of
2 things.

3 So as we do this, we'll build it into
4 other legacy systems as we replace and modernize
5 those. And so as our customers are stakeholders,
6 there will be a more common field across all of
7 our platforms as you move forward.

8 And so I want to thank you again for
9 joining us. And I want to thank the team for all
10 of their work to get us to this point. I think
11 you'll see some very exciting things today. And
12 there's quite a bit of work to get us to the
13 spring of '19 yet but thank you.

14 And I want to introduce Doug Nash.
15 Doug is our Assistant Chief Information Officer
16 for all of marketing and regulatory programs.

17 Doug just joined us from the
18 Agriculture and Marketing Service. We just
19 underwent a consolidation of all of our
20 information technology into MRPBS.

21 And Doug brings a wealth of experience
22 from not only the Department, but also Forest

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1 Service and AMS to here in APHIS. And Doug is
2 going to talk about our broader modernization
3 efforts.

4 MR. NASH: Thank you, Mark. Good
5 afternoon. It's great to be here talking with
6 you. And I appreciate the opportunity to share
7 what's going on with the modernization of
8 ePermitting, eFile and BRS services.

9 The work that APHIS is doing to
10 modernize the ePermitting system is not being
11 done in a vacuum as Mark mentioned. Our new
12 Secretary, Secretary Perdue, has really put a big
13 focus on making USDA one of the best managed
14 federal departments. And he recognizes that to
15 do that is to modernize information technology.

16 You are probably pretty familiar with
17 USDA in the sense it's a fairly decentralized
18 agency in terms of missions and also the IT and
19 how that was managed and developed was very
20 similar.

21 And so what the Secretary with his IT
22 modernization initiative has done is he's really

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1 taken a step back and asked us all to look at how
2 do our stakeholders, like you, how does the
3 public look at the systems that we provide in the
4 USDA so that when you go to each agency it doesn't
5 look like a completely different agency, a
6 different experience, a different technology and
7 all of that.

8 He talks a lot about using the Amazon
9 metaphor, the Amazon experience, where you get a
10 consistent high quality 21st Century digital
11 experience. And so that's what we are part in
12 APHIS and ultimately with the BRS ePermitting
13 modernization is to build a modern technology
14 platform that takes advantage of all of the good
15 work and the capabilities you had with
16 ePermitting but also brings in a lot of new 21st
17 Century features that you didn't have.

18 And so just to provide you some
19 broader context, as we are doing this
20 modernization across the Department, we're
21 approaching IT modernization through five
22 different focus areas.

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1 And the first is around IT
2 infrastructure optimization. So this is where
3 we're taking all of our old applications, what we
4 call on-premise data centers, and we're moving
5 them to the commercial cloud.

6 Why that would be of interest and
7 importance to you is it will make APHIS and how
8 we provide services more agile, more efficient in
9 how we can build, deliver and support IT services
10 plus it ultimately will help drive costs down for
11 IT services.

12 We are using cloud. Cloud allows us
13 take advantage of commodity IT and also just
14 allows us to do things more efficiently and
15 quickly.

16 Another big focus of the Secretary's
17 IT modernization is around the customer
18 experience. So rather than USDA employees alone
19 trying to anticipate what you're looking for in
20 services, digital services you get from USDA from
21 APHIS, USDA is actually doing pretty broad
22 comprehensive stakeholder engagement sessions to

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1 find out what you like, what you don't like, using
2 industry best practices and then building that
3 into our digital modernization.

4 And then we're also building better
5 capabilities for data analytics so that you'll be
6 able to access data more easily. It won't be a
7 stovepipe and difficult to access, but you can
8 use it in much more creative ways and useful ways.
9 And then finally improving our contact centers
10 and how we provide support and reach out to
11 customers.

12 We're on a fairly aggressive time
13 frame to implement these IT modernization
14 initiatives. We started last year. Many of
15 these are going to be significantly -- well, they
16 are all started and many of them are going to be
17 finished by the end of 2019. So it's pretty
18 quick.

19 And certainly we look forward to
20 releasing the BRS ePermitting capabilities in the
21 spring. So that's coming fairly quickly in large
22 part because of some of the technologies that

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1 we're using and also all of the engagement from
2 our subject matter experts and our stakeholders.

3 So we look forward now to giving you
4 the actual demo so we can get away from just kind
5 of this high level discussion. You can actually
6 see precisely what improvements have been made,
7 how that looks. And then we really look forward
8 to your comments and feedback.

9 So I'd like to introduce Monica Galli,
10 BRS Senior Regulatory Specialist and then Ashok
11 Anant, who is our eFile product owner.

12 MS. GALLI: Good afternoon. I'm
13 Monica Galli, Senior Regulatory Specialist for
14 BRS Compliance Evaluation, Enforcement Branch.
15 And over the last two years, I've served as the
16 project manager for the BRS portion of APHIS
17 eFile. And my APHIS colleague is Ashok Anant.

18 MR. ANANT: Hi. Good evening,
19 everyone. Good afternoon, everyone. My name is
20 Ashok Anant. I am the eFile product owner
21 responsible for ensuring the new system meets the
22 business and functional requirements for the BRS

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1 permitting.

2 I want to introduce Mahvash Taqi,
3 Business Analyst. Mahvash and their team has
4 been working with us for the past several months
5 trying to elaborate these requirements and get
6 them implemented into the system.

7 Today Mahvash will navigate the system
8 while me and Monica talk about some of the
9 features in the new system. I can only do one
10 thing well at a time.

11 So I am excited to give you all --

12 MS. GALLI: Oh, just bear with us for
13 a minute. It's going to take a second for the
14 remote users to see the switch between the
15 presentation and APHIS eFile.

16 MR. ANANT: Are you guys ready?
17 Thank you. Today I'm excited to give you all a
18 preview of our new eFile system. The new
19 permitting system as you've heard is cloud based
20 and is built on the Salesforce platform, widely
21 adapted across the federal sector.

22 The cloud-based application has many

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1 advantages for us, scalability, better
2 performance and more availability.

3 The delivery of this cloud-based
4 system puts APHIS in the forefront of the IT
5 modernization effort across the federal
6 government. Before I get into the demonstration,
7 I want to reiterate that what you are about to
8 see is work in progress and many of the features
9 are still being developed and refined.

10 MS. GALLI: So as Mahvash logs in to
11 get us started, come fly away with me to eFile
12 land where Ashok and I will be playing the part
13 as an experienced applicant today. We're going
14 to be applying for an import permit for
15 genetically engineered corn being imported from
16 Peru to Riverdale, Maryland.

17 We're going to be using web entry to
18 apply today, but XML upload is also an option.
19 So buckle up and please hold your questions until
20 the end of the demo. Ashok, take it away.

21 MR. ANANT: Thanks, Monica. Similar
22 to the current ePermits system, access to the new

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1 system requires Level II e-authentication. What
2 you are seeing currently on the screen is a
3 landing page once a user logs into the system
4 with Level II access.

5 Before I create a new application
6 here, I wanted to go over some of the key screen
7 elements on this page. What you are looking at
8 is the applications tab. The applications tab
9 shows the application page where it lists all
10 your current or active applications. As you can
11 see, there are many applications this user has
12 submitted.

13 If you have a large number of
14 applications like this, you will be able to
15 configure the system to allow whatever number of
16 applications that you would like to view.

17 With each of these applications, if
18 you see across the column, there is a status
19 field. The status field shows if your
20 application is still open, submitted or
21 withdrawn. Columns are also sortable if you
22 could see up, if you want to look at application

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1 type, with new applications, you can sort those
2 columns.

3 There is also the search feature on
4 the right side. If you know your application
5 number and you directly want to get into it and
6 work on it, you can type in the number and get
7 directly into your application.

8 On the top of the screen, you see four
9 tabs: dashboard, contacts, applications and
10 authorization. The dashboard has not been fully
11 developed, but this will be the landing page once
12 it's developed.

13 Once developed the dashboard will
14 provide you a quick snapshot of status of
15 applications, authorizations and permits in a
16 visual format.

17 Please note we haven't fully developed
18 so you're not able to see anything. But it
19 should be a more graphical view once it's
20 developed. You'll be able to see the number of
21 open applications, the number of authorizations
22 that have been issued, et cetera.

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1 The contacts tab. The contacts tab
2 is where the user can update his profile
3 information. Sometimes you want to change your
4 phone number or put a different email address,
5 you will go here and update your personal
6 information.

7 And finally, I wanted to talk about
8 the authorizations tab. The authorizations tab
9 is where you can find the disposition or status
10 of your submitted application, whether a permit
11 or notification for an application has been
12 issued or acknowledged.

13 If you notice, every application has
14 an equally valid authorization number. And BRS
15 will eventually issue a permit or notification.
16 The layout of this page, if you observe it, is
17 very similar to the one you saw earlier, the
18 applications page.

19 You have the number of entries where
20 if there are a large number of authorizations,
21 you can control how many you want to see on a
22 page. In this page, you also have a few other

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1 columns on the top, decision type, decision
2 status, permit number, exit draft.

3 If you want to sort those columns, you
4 can click on that and you can see a permit number,
5 that's an issued permit for that authorization.

6 So with that said, now I'm going to
7 take you through the process of creating an
8 actual application. In eFile before you proceed
9 to create an application, the user is prompted to
10 answer a series of questions similar to Turbo
11 Tax. These questions are similar to what you do
12 in ePermits today.

13 Based on the user's responses, the
14 system automatically determines if the user is
15 required to apply for a standard permit or a
16 notification or if a permit is required at all in
17 some cases. In this instant, as we click
18 through, based on the user's responses, the
19 standard permit is required.

20 Now, let us proceed with creating the
21 actual application and putting in the contents.
22 If you look at the top column, there are several

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1 columns. This is called a chevron view. If you
2 look at the top, you see the application data,
3 related articles, constructs, location, SOP,
4 attachments and line item review.

5 We have made filling out the
6 applications very easy for the user by breaking
7 it down into different logical sections.

8 If you look at the top, we also
9 provide instructional text throughout the
10 applications and to make it easier for you to get
11 some instructions on how to fill out the
12 application.

13 We first start by asking CBI
14 information. This will ensure we collect any
15 additional data required in the application as
16 appropriate. Also in some areas of the
17 application, as you just noticed in CBI, the
18 application will only allow certain types of
19 characters.

20 Based on the notification of permit
21 that was required in this, the related active
22 duty section appears below, and it will have the

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1 necessary fields to be filled out based on
2 whether a permit or notification is required.

3 With that said, there are a few more
4 sections, and I will turn it over to Monica to
5 present them to you. MS. GALLI: Thank you.
6 Now we'll navigate to the regulated article's
7 page. Instead of manual text and tree fields, I
8 use a lookup feature to search through a list of
9 regulated articles.

10 Today I'm adding maize commonly known
11 as corn to my import permit. I use the search
12 box to search either by the scientific name or
13 common name and then select the appropriate
14 regulated article. You see that it automatically
15 populated the regulated article text field with
16 the scientific name.

17 If I didn't see the regulated article
18 I was looking for, I would simply email BRS so
19 that the regulated article could be added to the
20 system.

21 So once I click save, I was taken back
22 to the regulated article table where I can

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1 confirm that I've added the correct regulated
2 article.

3 Now I can proceed to the constructs
4 stage. The constructs page has a new feature
5 that I love and I think everyone else will like,
6 too. APHIS eFile has previously submitted
7 constructs.

8 This feature allows me to search and
9 re-add constructs that I previously submitted on
10 other corn applications. This feature is so
11 great because it cuts down on the amount of manual
12 text entry I have to do.

13 Each previously submitted construct
14 is associated to a given regulated article. So
15 I have corn previously submitted constructs and
16 avocado previously submitted constructs
17 associated with my eFile account because in eFile
18 land I'm also conducting trials on non-browning
19 avocados.

20 Another bonus is that I don't have to
21 worry about data security. Only my account can
22 see my previously submitted constructs. Like

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1 regulated articles, constructs also appear in a
2 table format as I add them to the application.

3 I'm going to search -- I'm going to
4 use the search function to locate a construct
5 that I submitted in my last application. I'll
6 click the magnifying glass to review the
7 phenotypic and genotypic details so that I can
8 make sure that I'm adding the proper previously
9 submitted construct. It looks good.

10 So we'll select the checkbox and click
11 add selected. I'm taken back to the construct
12 landing page where I can see that my previously
13 submitted construct was added.

14 Now we'll go ahead and add a new
15 construct to this application. I'll add the
16 construct name and associate it with a regulated
17 article.

18 Next, I'll select the mode of
19 transformation from a drop down list. I make
20 sure to click the claim as CBI box since this a
21 drop down list and brackets are not accepted in
22 this field.

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1 Once I click save, I am given the
2 chance to add the phenotypes and genotypes. So
3 I'll click add phenotypes, select the phenotype
4 category and input a phenotypic description and
5 click save. For this construct we'll go ahead
6 and add an extra phenotype.

7 Next I use the add genotype button to
8 add my genotype details, including the genotype
9 category, construct component name, construct
10 component, the description of the component and
11 the details similar to the experience now with
12 ePermits.

13 Now that I have completed my
14 construct, I will navigate back to the construct
15 landing page to verify I have added all of the
16 constructs needed for this application. So
17 they're all displayed on this table in the
18 construct landing page. So far so good.

19 Next I'll move on to the next section
20 of the application, locations. In this section,
21 I'll enter both an origin location and a
22 destination location since this is an import

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1 permit.

2 In this case, the material is being
3 imported from the U.S. Embassy in Peru. To
4 select a foreign country, I use a lookup table to
5 select Peru as the country of origin. Once I hit
6 save, the option to add location contacts
7 appears.

8 Today we're going to skip adding the
9 contacts for the origin and move into adding --
10 navigate back to the location landing page to add
11 our destination location.

12 Since the destination location is
13 APHIS here in Riverdale, Maryland, I will also
14 use additional lookups to provide the state and
15 country information. I will also indicate
16 whether the location has been inspected by APHIS
17 in the past.

18 Now I will describe the material that
19 will arrive at this location, including the
20 quantity, unit of measure and material type. And
21 then I want to claim my information as
22 confidential business information so I click the

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1 checkbox for CBI.

2 Now I'll add a location contact for
3 this location. The contact is my boss, Secretary
4 Sonny Perdue. Better make sure that I use
5 brackets and checkboxes to claim all of Secretary
6 Perdue's contact information as CBI. I
7 definitely want to make sure that his information
8 is protected.

9 Once I save, I can confirm that all
10 the information for this location is correct.
11 Everything looks good.

12 The next section is SOPs and
13 attachments are pretty straightforward. So
14 we're not going to cover those today. Instead,
15 we're going to jump ahead to line item review.

16 I see that each section of the
17 application is visible, making it easy to review
18 the information that I've entered into my
19 application so far before submitting.

20 Now we're going to jump to the
21 application review page after certifying that all
22 of the information submitted is correct and true

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1 and follows BRS' regulation.

2 The application review page again
3 requires you to certify that all your information
4 follows APHIS regulation. And then you're able
5 to submit your application.

6 In the future, eFile will have
7 validations in place to prevent me from
8 submitting an incomplete application. But with
9 the magic of eFile land, we were able to
10 successfully submit this application today.

11 That's all we're ready to show you
12 today. But hopefully everything you've seen so
13 far gives you a sense of what's coming with eFile.
14 Now Ashok will talk about other exciting eFile
15 features that will be available at Go-Live and
16 then we will take your questions.

17 MR. ANANT: Thank you, Monica. If
18 you could switch back to the presentation? Thank
19 you. All right. Thank you, Monica. In
20 addition to what you saw in this review, there
21 was going to be additional functionality you can
22 expect when you first log into eFile after it is

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1 released.

2 As I mentioned earlier, applications
3 dashboards will be available and fully
4 functional. Application cloning will be
5 available. And we mentioned renewals, self-
6 reporting and XML uploads. These are all going
7 to be part of the first release, but you didn't
8 get to see that today. We are still --
9 development is in progress.

10 MS. GALLI: Well, the next slide is
11 questions. So if anyone has any questions, we
12 can go ahead and get that started.

13 MR. ANANT: Thank you.

14 MR. WEEKS: I'm Michael Weeks, BASF.
15 I'm excited to see the retention of previously
16 submitted constructs for ease of use in the
17 future. If accounts are transferred between
18 applicants then organizations, is there a
19 possibility that they also transfer using
20 previously submitted constructs within the
21 system?

22 MS. GALLI: I'll have to look into

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1 that. But there is a concept we didn't talk
2 about today that has been introduced to all the
3 stakeholders before called organizational
4 applicant where you'll be able to actually manage
5 multiple applications who all work for the same
6 company. And those will actually be able to
7 share previously submitted constructs across the
8 applications. So I think that might get to the
9 business need.

10 MR. WEEKS: Yes. That's excellent.
11 Similar question, will locations and contacts
12 also have retention in the system similar to
13 constructs?

14 MS. GALLI: Locations will not.
15 Contacts will and the article, supplier and
16 developer may function that way to retain that
17 information.

18 MR. BOTTOMS: Jeff Bottoms with
19 Syngenta. A couple of questions. I just want
20 to confirm that your application cloning is
21 copying that application?

22 MS. GALLI: Correct.

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1 MR. BOTTOMS: Good, awesome. Thank
2 you. The other question that I have.

3 MS. GALLI: Copying and also allowing
4 editing, yes.

5 MR. BOTTOMS: Perfect. Thank you.
6 The other part, I noticed there were a couple
7 different ways to designate CBI. Could you
8 address why there's the inconsistency and why
9 certain fields have the checkboxes versus certain
10 fields you actually manually enter the brackets?

11 MS. GALLI: Yes. So today in
12 ePermits you use brackets to signify confidential
13 business information. In eFile, certain fields
14 are formatted to either be a phone number or an
15 email address or you select them by a drop down
16 list, so in those type of fields you cannot
17 physically use checkboxes -- or, I'm sorry,
18 brackets. So we've introduced the checkboxes for
19 those fields to be able to claim CBI. Any other
20 free data entry field you will still signify CBI
21 using brackets.

22 So when you review your PDF, you will

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1 see the checkboxes format that data in brackets
2 also.

3 MR. BOTTOM: Great. Thank you. One
4 last question for me, you noted that if you don't
5 have an article in your drop down list, to contact
6 the USDA to add it. Do you have any estimation
7 on the timelines to get that added?

8 MS. GALLI: No, not at this point we
9 don't. But we're coming up with a process now.
10 And on the last page of your handout is kind of
11 an overview for this afternoon. And there's an
12 email address on that. So if you have any other
13 additional questions or anything, you can start
14 using that email address right away to get in
15 contact with us about eFile.

16 MR. MUNDELL: Scott Mundell, Corteva
17 Agriscience. So first I want to applaud the
18 modernization and --

19 MS. GALLI: Thank you.

20 MR. MUNDELL: -- moving on and making
21 things better for all of us. One question
22 specifically about using cloud that I have

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1 relative to protection of federally protected
2 information under CBI. Can you describe a little
3 bit how you're working in regard to security in
4 this area?

5 MS. GALLI: Wait a minute. Okay.

6 MR. NASH: It's a great question.
7 And security is always the first thing that comes
8 up when we start talking about commercial cloud
9 and those kinds of commodity services.

10 And we have to use -- within the
11 federal government we have to use cloud services
12 that are certified by GSA basically. FedRAMP is
13 our techy term for it. But that's kind of the
14 first level is we have to use federally certified
15 cloud systems.

16 And then on top of that, we do
17 analysis of the kinds of data that gets stored in
18 the cloud in this particular system and how it's
19 used. And then we also have to do a specific
20 what we call re-certification for the
21 application.

22 So we kind of do it in multiple layers

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1 to make sure that all the data is protected. So
2 we take it very, very seriously.

3 MS. WANEX: We have a number of
4 questions online. Does anyone else in the room
5 have any questions before we go to that?

6 MR. MUNDELL: Scott Mundell with
7 Corteva again. Thank you for returning the mic.
8 So you noted that there would be a role -- that
9 there would be an organizational oversight. I
10 suspect a number of us in large organizations
11 have a group and they might like to all see each
12 other's stuff.

13 So can more than one individual be set
14 up at that organizational level? So say you had
15 four employees all working in the same space,
16 they would have cross-visibility on what's been
17 put into the system?

18 MS. GALLI: Let me make sure I
19 understand your question right. Within the same
20 organization or even across organizations?

21 MR. MUNDELL: Within the same
22 organization.

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1 MS. GALLI: Within the same
2 organization, yes, that's correct.

3 MR. MUNDELL: Fantastic. And when
4 might the schema templates for the system be
5 available? Or if you're going to get that later,
6 please feel free to put me on ice.

7 MS. GALLI: We don't have an exact
8 date of when the schema templates will be
9 available. We're working to minimize the changes
10 that will be needed on the new schema.

11 MR. MUNDELL: Okay.

12 MS. GALLI: I suspect we'll have a
13 template available at least a month before Go-
14 Live and then later on I'm talking about the
15 transition period and I think that may answer
16 your question.

17 MR. MUNDELL: Okay. Thank you very
18 much.

19 MS. WANEX: Okay. The first question
20 online that we had is where is the downloadable
21 file with the handouts? It's in the box to the
22 right-hand side of the screen in the webinar.

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1 The next one is there any provision to
2 see previous permit numbers for renewal permits?

3 MS. GALLI: So if you are going to
4 renew a permit, renewals have to happen in the
5 system the original permit was issued in. So if
6 you are going to come in with a renewal into
7 eFile, it would be processed as a new permit the
8 first time it came into the system.

9 MS. WANEX: I think the question might
10 have been more about if the first permit was in
11 eFile would you be able to see the trail from
12 where you started to where you ended up with
13 renewals?

14 MS. GALLI: Yes. So when you renew a
15 permit in eFile, the experience will be very
16 similar to renewing a permit in ePermits.

17 MS. WANEX: The next question,
18 notifications issued during the transition to
19 eFile will be converted to permits automatically
20 or will they need to be reapplied?

21 MS. GALLI: So nothing will be
22 converted. If you apply for a permit or a

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1 notification in ePermits, it will live out its
2 life in ePermits. So, yes, if you need a renewal
3 or a permit or notification the next year, any
4 payment through eFile, it would be a new permit
5 number, a new system.

6 MS. WANEX: Since there is no
7 provision for a user to add a regulated item,
8 they have to email BRS, how long do you expect
9 the response time to be to add the item once you
10 email BRS?

11 MS. GALLI: We're still working on
12 what that process would be, but the delay should
13 not be too long.

14 MS. WANEX: Will there be an unknown
15 choice for inspection history questions?

16 MS. GALLI: Yes, that is something
17 we're working on adding. The question of has the
18 destination been inspected by APHIS before will
19 probably be updated. It will definitely be
20 updated before Go-Live and may not even be
21 required.

22 MS. WANEX: Will preparers have

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1 access to all of the constructs associated with
2 the permit of these accounts?

3 MS. GALLI: We're still working
4 through how the preparers will access the system
5 and interact with it and what data they will have
6 -- will be available to them after it's actually
7 submitted. So I don't have a full answer for you
8 at this time.

9 MS. WANEX: Will we still be issued
10 USDA ID numbers?

11 MS. GALLI: I'm not really sure what
12 the USDA ID number is.

13 MS. WANEX: The format that everybody
14 is used to the numbers being in.

15 MS. GALLI: Oh, of our permit
16 notification numbers now. No. Unfortunately
17 our permit and notification number format will
18 change.

19 Right now it is the year Julian day or
20 the calendar and then it's 101 for the first
21 notification that comes in that day or 102, 103.
22 Unfortunately, we are going to lose that format

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1 and we're going to a standard format that will be
2 used all across APHIS.

3 MS. WANEX: If one simply wants to
4 extend the permit period, how do you do the
5 amendment?

6 MS. GALLI: An amendment never
7 extends the expiration date of a permit. The
8 only way to extend the expiration date of a permit
9 or notification is to apply for a new
10 notification or permit.

11 MS. WANEX: Will eFile have a message
12 box feature for communication with
13 biotechnologists and condition acceptance?

14 MS. GALLI: Yes, it will have a
15 message box. And that's an exciting feature that
16 we will display to you through webinars and other
17 training materials as a way to communicate back
18 and forth with the biotechnologists and have
19 communications retained in the system.

20 MS. WANEX: Will eFile have a way to
21 add a location as an origin destination and
22 release location at one time or will they have to

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1 be entered three different times?

2 MS. GALLI: Unfortunately, no. But
3 we do have a new type of location, which is an
4 origin/destination. So you will only have to
5 enter it twice instead of three times. So not
6 everything you want, but at least it's an
7 improvement.

8 MS. WANEX: Will reporting,
9 planting/field tests be done in eFile or in
10 another system?

11 MS. GALLI: All self-reporting will
12 be done in a system that the permit or
13 notification originated in. And we'll talk more
14 about that in the coming slide.

15 MS. WANEX: Somebody was clarifying
16 their question from earlier, I believe, it was
17 about the renewal. He said if you have Permit 1
18 which is renewed to Permit 2 and then renewed to
19 Permit 3, will there be a trail in Permit 3 that
20 has the other permits listed?

21 MS. GALLI: Yes. In eFile there
22 would be a trail if all those permits were issued

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1 through eFile.

2 MS. WANEX: Will our existing user ID
3 and security levels transfer from ePermits to
4 eFile?

5 MS. GALLI: So I'm assuming you are
6 talking about the eOffice authentication ID?
7 Yes, it will transfer.

8 MS. WANEX: If a new file is very
9 similar to an existing permit, can you reuse the
10 existing file to avoid entering all information
11 all over again?

12 MS. GALLI: The schema file? I'm
13 assuming?

14 MS. WANEX: I believe this might be a
15 question related to cloning.

16 MS. GALLI: So you can go into an
17 application, and it will copy it. You will have
18 to still upload new SOPs and attachments.

19 MS. WANEX: For MRP IT, PPQ has also
20 heard that ePermits was going away. Do you know
21 if PPQ will be moving towards eFile? Will a
22 similar presentation and demo be offered to PPQ

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1 stakeholders?

2 MR. ANANT: Yes. It will happen in
3 the future. We don't have any definite dates,
4 but we have multiple releases planned. And we
5 will get to PPQ and we have some more to add to
6 that.

7 MS. LEWANDOWSKI: I also wanted to add
8 that ePermits will not go away as long as we still
9 have a need for it. So any decommissioning of
10 ePermits while it may be in a planning stage,
11 it's not going to go away until we know that eFile
12 is up and running and handling permits that
13 ePermits is currently being utilized for.

14 MS. WANEX: After transition to
15 eFile, will applicants still be able to access
16 applications that were done in ePermits? I think
17 you might have just answered that.

18 MS. GALLI: Yes. As Laura said,
19 ePermits isn't going away. You'll still be able
20 to access. You might not be able to apply for
21 new permits, but you will be able to access those
22 records.

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1 MS. WANEX: Has the USDA considered
2 creating a similar portal for submitting export
3 applications for health certificates, for
4 example, the VS 16-4 form?

5 MS. GALLI: Yes. Eventually eFile
6 will be built out to handle all of APHIS'
7 permitting and licensing requirements. So a
8 similar system is in the plans for that type of
9 work.

10 MS. WANEX: Will applicants be able
11 to initiate a message to the biotechnologists in
12 the message box? Currently the applicant can
13 only reply to messages initiated by the
14 biotechnologist.

15 MS. GALLI: Chris, do you know for
16 sure?

17 MR. HOLBY: I would say --

18 MS. GALLI: I'll have to look into
19 that question. I'm not exactly sure of that
20 functionality if that exists without the biotech
21 first initiating the conversation.

22 MR. HOLBY: Yes, I would say the same.

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1 MS. GALLI: Yes.

2 MS. WANEX: Will inspection letters
3 be in eFile similar to how they are available in
4 ePermits?

5 MS. GALLI: Yes.

6 MS. WANEX: We have some more
7 questions being typed. Are there any additional
8 questions in the room?

9 MR. MUNDELL: So what steps -- you
10 showed a process there and currently there's an
11 initiation process in ePermits. And then you get
12 to the point where you reach the XML upload stage.

13 MS. GALLI: Yes.

14 MR. MUNDELL: Will that be
15 essentially in the same spot in the process or
16 will it move to earlier or later? Do you have
17 any information on that?

18 MS. GALLI: Yes, so when we went to
19 the question, we clicked a tab kind of up in the
20 corner and there was, like, four different
21 choices, and she chose one that took us to the
22 question. There will be an XML upload right

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1 there. So you'll just select and start the
2 process for XML uploads that way.

3 MS. WIETZKI: Christine Wietzki with
4 Betaseed. I was just curious. After filling
5 out the application, will we still have the
6 ability to generate a PDF to view that
7 application?

8 MS. WANEX: Yes, you will. And if
9 you're filling out a CBI application, you can
10 generate both the CBI version and CBI deleted
11 version of the PDF.

12 MS. WANEX: Online, please make sure
13 you type your question in the chat box. I see
14 somebody pressed 01. I'm going to take their
15 question. Hi, there. You can speak at any time
16 if you have a question.

17 MS. GALLI: So if you're interested
18 in giving input of what you'd like to see in the
19 system, we will be conducting user acceptance
20 testing the week after Thanksgiving.

21 So go ahead and email the email on
22 your handout. And then I'll be soliciting from

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1 some of you who have helped test in the past also
2 to see if you're still interested in
3 participating and available.

4 MS. WANEX: To the individual that had
5 a question, you should be able to talk. Please
6 stay in the chat box because we're not hearing
7 you. I definitely hear somebody talking. Well,
8 we're not hearing anything in the room so I'm
9 just going to read the next question. At any
10 time you should still be able to talk.

11 Will the applicants be able to see the
12 status of submitted applications in eFile?

13 MS. GALLI: Yes, you will be able to
14 see the status of all of your applications in
15 eFile.

16 MS. WANEX: If the applicant already
17 knows that the material is regulated, is there a
18 way to bypass the "am I regulated" questions?

19 MS. GALLI: Unfortunately no. There
20 is no way to bypass the "am I regulated" questions
21 unless you were to clone a previous application
22 that you used in -- or you have already gone

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1 through the questions to get to the correct
2 outcome.

3 MS. WANEX: We have some more typing.
4 Thank you, everyone, so much for your questions.
5 It's been a really helpful discussion for us.

6 MS. GALLI: Yes. We definitely want
7 to hear your feedback.

8 MR. BOTTOMS: Jeff Bottoms, Syngenta.
9 Has there been any explanation of given more
10 descriptive statuses for the applications once
11 they're submitted? Currently, the permit is just
12 ending but you don't know --

13 MS. GALLI: Where it is in the
14 process?

15 MR. BOTTOMS: Exactly.

16 MS. GALLI: That is a possibility.
17 We haven't really explored that very much, but
18 yes. Okay. Thank you. We will definitely
19 write that down.

20 MS. WANEX: We have another question.
21 I think one we already answered. Will current
22 access be migrated from ePermits to eFile

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1 automatically?

2 MS. GALLI: Yes. You will use your
3 eAuthentication logins for both systems. And it
4 will be the same login.

5 MS. WANEX: And if CBI boxes aren't
6 checked, who has visibility to the CBI?

7 MS. GALLI: Well, you would as the
8 applicant and then BRS would. But the main
9 reason that you claim information as CBI is in
10 case that information becomes FOIA'd because the
11 public can ask for it. So anybody that could
12 potentially FOIA that information would be able
13 to see information that you did not CBI protect.

14 MS. WANEX: Will there be a way to add
15 supplemental documents to a submitted application
16 without it having to be kicked back?

17 MS. GALLI: Supplemental documents --
18 but once it's submitted, I don't believe so.
19 There will be a reports and notices section
20 though so we could probably have the documents
21 there after it's issued.

22 MS. WANEX: Do we need to write a new

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1 XML upload program to mesh with the eFile system?

2 MS. GALLI: Yes. You will probably
3 have to make small changes, but we're trying to
4 minimize the amount of changes.

5 MS. WANEX: Last chance for anybody
6 in the room if you have any extra questions. I
7 see a hand.

8 MR. MUNDELL: Scott Mundell for
9 Corteva Agrisciences. More of a comment. The
10 sooner you can get us the schemas for all of this,
11 the faster we can transition and we can be out of
12 ePermits.

13 MS. GALLI: Yes.

14 MS. WANEX: I think you might find
15 some useful information on that topic. One more
16 question, will this system be ready to go for
17 field crops by next March?

18 MS. GALLI: The Go-Live date is
19 planned for spring of 2019. We're not ready to
20 release the exact date or announce the exact
21 date. So March falls in the spring. There's a
22 possibility, but I'm not exactly sure.

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1 MS. WANEX: Thank you, everyone, for
2 the questions. We'll have another opportunity
3 to ask more questions. You're always welcome to
4 type them into the box.

5 MS. GALLI: Okay. So we'll move on
6 to preparing for APHIS eFile. So let's talk
7 about the transition from ePermits to eFile. The
8 dates and timeframes that I mentioned are
9 estimates only and are subject to change. eFile
10 will go live, meaning it will be available to
11 apply for permits and notifications in the spring
12 2019.

13 The transition between ePermits and
14 eFile will occur in three stages. Each stage is
15 expected to last approximately three months. Now
16 let's explore how different business needs will
17 transition.

18 First, we'll talk about reporting
19 requirements. And what we mean by reporting
20 requirements are the required self-reports such
21 as planting reports, field test reports,
22 volunteer monitoring reports and any other types

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1 of reports that you're required to submit for
2 permits and notification.

3 For issued permits and acknowledged
4 notifications, permittees will submit their
5 required reports in the system that issued the
6 permit or notification. So anything issued out
7 of ePermits, you will submit your self-reports in
8 ePermits. Anything issued out of eFile, you will
9 submit your self-report in eFile. And self-
10 reports can be submitted both via web entry or
11 XML upload.

12 Now new permit applications, so this
13 is the diagram that you have in your handout on
14 the last page. To minimize the total transition
15 time between the system, BRS has already stopped
16 accepting applications for multiple year permits.

17 So today you can apply for a one year
18 permit or a one year notification in ePermits
19 using web entry or XML upload.

20 At Go-Live you will be able to apply
21 for one year permits, multiple year permits and
22 one year notifications using XML upload or web

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1 entry.

2 During stage one, both web entry and
3 XML upload will still be available in ePermits.
4 During stage two, only XML upload will be
5 accepted in ePermits. Web entry applications
6 will have to be submitted in eFile.

7 I encourage everyone to use eFile as
8 soon as possible. But we have the stages for
9 those of us that are reluctant to change or to
10 get our XML schemas in order.

11 Beginning in Stage three, BRS will no
12 longer accept applications in ePermits and all
13 applications will need to be filed in eFile. And
14 you'll be able to file those either using web
15 entry or XML upload.

16 So the next business need would be for
17 renewal permits. And only permits can be
18 renewed. Notifications cannot. And you can
19 only renew a permit via web entry. And that will
20 change with eFile.

21 BRS will no longer accept permit and
22 renewal applications in ePermits at the end of

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1 stage one. And to reiterate, any renewal request
2 submitted through ePermits will only be granted
3 for one year. To get a multiyear permit, all
4 applications must be submitted in eFile.

5 And the final business case is for
6 amendment request applications. In both
7 systems, we only issue amendments for permits.
8 Notifications are not eligible to be amended.

9 BRS will accept amendment requests for
10 permits in the system that issued the original
11 permit. So if your original permit is from
12 ePermits, you would need to request in ePermits.
13 And if your original permit was issued in eFile,
14 you would make your amendment request through
15 eFile.

16 And as a reminder, no change can be
17 made to the expiration date of the permit. Once
18 you renew it, the expiration date stays the same
19 as the original permit. I'm sorry, once you
20 amend the permit not renew it.

21 Now I'll turn the mic over to Ashok to
22 talk about what we can expect to see in the long-

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1 term from APHIS eFile.

2 MR. ANANT: Thank you, Monica. Like
3 with any product, we will continue to enhance the
4 product and provide more features. You know, I
5 have my iPhone, which is 6S. I started with 3S.

6 So we hope to do more releases. You
7 know, we haven't decided the time frame of these
8 releases. But some of the features, like, you
9 know, more robust organizational applicant
10 feature. Of course, we will continue to get
11 usability feedbacks from you and others and roll
12 these out as we do future releases.

13 And I think there was a question about
14 plant production and quarantine permitting. So
15 we are also planning towards getting the PPQ
16 permitting into eFile. We don't have a date yet
17 for that. Similar to that, Veterinary Services
18 permitting will also roll into eFile in the
19 future in 2019 or 2020 maybe.

20 So in addition to permitting, we are
21 also looking into a one stop shop where
22 certifications, accreditations, registrations

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1 and other licensing can all be part of this eFile
2 system. In fact, in animal care, annual
3 reporting is already live. They have already
4 gone to the next letter of ours, and they are in
5 eFile.

6 So expect continual releases after the
7 first BRS release, and we will tell you what where
8 those new releases are going.

9 So in terms of getting up to speed
10 with APHIS eFile, as you look at the system, we
11 don't expect it to be very difficult to learn
12 this interface. But we are going to definitely
13 make sure you have the necessary support
14 resources.

15 We will have webinars, which will be
16 recorded and available any time you want to go to
17 it. We will have FAQs. And we will have user
18 guides to support this process of learning the
19 new system. And one more opportunity for
20 questions.

21 MR. WEEKS: Michael Weeks, BASF. The
22 organizational applicant is something we've been

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1 chasing after for years. And now that I'm
2 thinking about it, I'm just curious, what the
3 measures will be when someone becomes
4 eAuthenticated and claims an organization to
5 verify they do belong to that organization from
6 the perspective that once they're in they would
7 have access to everything else that was submitted
8 within that organization. Does that make sense?

9 MS. GALLI: What we're imagining is
10 that the organization will be able to designate
11 their own system administrator, which will be
12 able to control who in the organization shares
13 information with each other. Chris, do you have
14 anything else to add on how that functionality
15 might exactly play out?

16 MR. HOLBY: I think that's right. I
17 mean, I imagine it being a pretty direct to BRS
18 conversation on who is that person and then that
19 person then is kind of the gatekeeper. Yes.

20 MR. ANANT: Any questions online?

21 MR. MUNDELL: Scott Mundell, Corteva
22 Agrisciences. So the current ePermits system

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1 does have some system limitations on the size of
2 the XML file that we can upload. And that
3 creates extra workload for you, as an
4 organization and for us. Do you anticipate file
5 size upload limitations with this system?

6 MR. HOLBY: I understand there's a
7 current page limit XML, and there's no page limit
8 on the new uploads. We expect the system to
9 support up to 500 constructs. So that's how
10 we're measuring the size of the application.

11 MS. WANEX: The next couple of
12 questions online. Will scanned blue and white
13 import label history be in the file?

14 MS. LEWANDOWSKI: So any import that
15 is issued in eFile you would use eFile to get
16 your blue and white import labels from. The
17 history from blue and white labels issued for
18 import permits through ePermits, you would
19 continue to get that label history out of the
20 ePermits system.

21 MS. WANEX: How can we make sure we
22 know when this system is live, when training

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1 occurs, et cetera?

2 MS. GALLI: Don't worry. We will
3 publicize and let you all know when the system is
4 live and ready to use. We will let you know loud
5 and clear.

6 MS. LEWANDOWSKI: Yes. That's
7 absolutely right, Monica, and I just wanted to
8 emphasize that this is really one of the very
9 first of, I hope, several exchanges.

10 We are working on an entire change
11 management plan to assist not only the applicants
12 in their use of the system, but also to
13 communicate with stakeholders, communicate
14 throughout internally as well.

15 So this is -- you know, you're here at
16 the very beginning, seeing the sneak peek.
17 You're seeing the application even without all
18 the functionality. And I know that there are
19 questions about schemas. And so as we are
20 developing more and more, we will be providing
21 more and more detail.

22 And another point I wanted to make

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1 kind of related to that is that we are using an
2 agile methodology. So we are building the system
3 and releasing and then building again rather than
4 the old waterfall methodology where you build the
5 whole thing before you show any of it.

6 So as we go, we will be communicating
7 what's new and as we get closer to dates we will
8 communicate those as well.

9 MR. MUNDELL: Scott Mundell, Corteva
10 Agrisciences. One of my team back home actually
11 texted me this one. So one thing to keep aware
12 of in terms of your user authenticity, that being
13 in the fall here, November/December, that's also
14 the time that our teams inside our organizations
15 are busy writing the applications that you all
16 receive and review typically in December, January
17 and February.

18 So if you could stretch that user
19 acceptance testing out a little bit into January
20 or February as well that also might help us
21 communicate with you more effectively. Thank
22 you.

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1 MS. LEWANDOWSKI: Yes. That's a
2 really good point. And thank you for that
3 feedback. We're taking that.

4 And one thing I want to emphasize is
5 that the user acceptance testing for November is
6 actually for what we're referring to as pass one,
7 which is a portion of the implementation. We'll
8 have another user acceptance testing round as we
9 get closer to the actual release. So we'll have
10 several opportunities.

11 MS. GALLI: Any last questions in the
12 room? Seeing none, thank you, everyone. Thank
13 you for joining us. And we look forward to
14 informing you more about eFile as it develops.

15 (Whereupon, the above-entitled matter
16 went off the record at 2:44 p.m.)

17
18
19