

TRANSCRIPT OF PROCEEDINGS

IN THE MATTER OF:)
)
STAKEHOLDERS MEETING)
COALITION FOR THE ADVANCEMENT)
OF BIOTECHNOLOGY BASED)
PERENNIAL AND SPECIALTY PLANTS))
)
)

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1220 L Street, N.W., Suite 600
Washington, D.C. 20005-4018
(202) 628-4888
hrc@concentric.net

IN THE UNITED STATES DEPARTMENT OF AGRICULTURE

IN THE MATTER OF:)
)
 STAKEHOLDERS MEETING)
 COALITION FOR THE ADVANCEMENT)
 OF BIOTECHNOLOGY BASED)
 PERENNIAL AND SPECIALTY PLANTS))
)

Training Room 1
 4700 River Road
 Riverdale, Maryland

Thursday,
 February 26, 2004

The parties met, pursuant to the notice, at
 11:16 a.m.

BEFORE: CINDY SMITH
 Deputy Administrator

APPEARANCES:

USDA, APHIS and BRS:

REBECCA BECH, Associate Deputy Administrator
 SUSAN KOEHLER
 JOHN TURNER
 NEIL HOFFMAN
 MICHAEL WACH

APPEARANCES (CONT.):

For the Coalition for the Advancement
of Biotechnology Based Perennial
and Specialty Planter _____:

SHARIE FITZPATRICK, Forage Genetics International

Director of Regulatory Affairs and Quality
Assurance for Biotech Traits

DAWN W. PARK, Arbor Gen
Manager, Public and Governmental Affairs

TERRY STONE, Scotts Company
Director, Biotechnology Regulatory Affairs

Participants:

LEVIS HANDLEY
CRAIG ROSELAND
MICHAEL BLANCHETTE

1 We have two purposes for these briefings. The first
2 is to share information about our plans to move
3 forward with the Environmental Impact Statement and
4 EIS, as well as to amend our plant biotechnology
5 regulations. And the second is to gather diverse and
6 informative input, which will support effective
7 decision making on our part in the development of our
8 revised regulations.

9 We have here from BRS most of our management
10 team, as well as a number of staff. And what
11 available other key agency personnel who are involved
12 in supporting BRS in this effort will be attending
13 meetings, as well.

14 I also want to mention two key individuals
15 who have now been dedicated to this effort full time.
16 The first is John Turner, whom you likely know, a
17 very important member of our leadership team here in
18 BRS. John will be providing full time leadership to
19 our effort to complete an EIS as well as our new plant
20 biotech regulations.

21 And a second individual, who may be a new
22 face with whom you are not familiar yet, is Dr.
23 Michael Wach, a recent BRS hire, as an environmental
24 protection specialist within our environmental and
25 ecological analysis unit. In addition to possessing a

1 Ph.D. and an Environmental Law J.D., Michael brings
2 research experience in plant pathology and weed
3 science, as well as legal experience working on cases
4 involving NEPA, the Clean Water Act, the Clean Air Act
5 and other environmental laws.

6 At this point, I'm going to turn it over to
7 John Turner and have him share some additional
8 information with you as well, and then we can open it
9 up for your comments and discussion.

10 MR. TURNER: As you probably know, we've
11 been in interagency discussions with our sister
12 agencies, EPA, FDA and with the White House. And
13 while we concluded that the coordinated framework as
14 it stands has provided a great and appropriate science
15 and risk-based system, we also concluded that the
16 Plant Protection Act of 2000 provides us an
17 opportunity to revise our regulations and potentially
18 expand our authority while leveraging the experience
19 that we've gained through our history of regulation.
20 It is my position as well for future advancements into
21 technology.

22 And so with those discussions, we have some
23 general direction as to how the regulatory approach is
24 likely to evolve, but still, it's early in the process
25 so there's yet plenty of opportunity for public and

1 stakeholder input as we look forward with the
2 specifics.

3 Given this, what we want to do at these
4 meetings is provide an opportunity to hear your
5 thoughts and to have some informal given and take of
6 ideas. And we have a unique opportunity for this
7 discussion, because we're not yet in the formal
8 rulemaking phase of the process. So feel free to
9 speak freely and we'll have an open exchange of ideas.

10 Our discussion will be transcribed primarily
11 for two reasons. First, we want an accurate record of
12 our discussions that will facilitate our ability to
13 capture and refer to your input later. And secondly,
14 in the interest of transparency and fairness to all
15 stakeholders, we will be making this available as part
16 of the public record, potentially maybe even on our
17 website, so that documentation on all of our
18 stakeholder discussions will be available to everyone,
19 so that they can benefit from the discussions with the
20 other stakeholders. the stakeholders.

21 I should emphasize that while we're happy to
22 share information on the direction we are likely
23 taking during the process, what we'll be sharing is
24 our current ideas. And this is going to evolve and
25 change over time. We'll have input from the

1 stakeholders, but also from sources within USDA,
2 including our Administrator, our Undersecretary and,
3 of course, our Office of General Counsel and the
4 Secretary.

5 So while we value all input, it's important
6 for you to know that our thinking will evolve over
7 time. Finally, since it's hard to predict what the
8 final regulations will look like, one thing that we do
9 know is we can share with you basic priority areas of
10 emphasis. And these will guide us through the system.
11 The first is rigorous regulation, which thoroughly
12 and appropriately evaluates and ensures safety and is
13 supported by a strong compliance and enforcement.

14 The second is transparency of the regulatory
15 process and regulatory decision making to stakeholders
16 and the public. This is critical to public
17 confidence.

18 The third is to have a science based system.
19 We want to ensure that the best science is used to
20 support regulatory decision making, to assure safety.

21 Fourth, communication, coordination and
22 collaboration with the full range of stakeholders.

23 And finally, international leadership. We
24 need to ensure that the international biotechnology
25 standards are science based, We want to support

1 international regulatory capacity building and
2 consider the international implications of policy and
3 regulatory decisions.

4 As we prepare to begin our discussions, I
5 would let everyone know that for effective
6 transcription of our sessions, that all statements and
7 questions need to be directed into a microphone.
8 You're all fine, this was more appropriate when we had
9 people at tables that didn't have a microphone. But
10 direct those into a microphone and the first time you
11 speak, if you could give your name for the transcriber
12 and then after that, that will be fine.

13 So with that, then, I think we're ready to
14 start and kick it back over to your side of the table.

15 MS. FITZPATRICK: Thank you. We have a
16 prepared statement that we'd like to kind of work back
17 and forth a little bit here to guide our discussions.

18 We are here on behalf of the Coalition for the
19 Advancement of Biotechnology Based Perennial and
20 Specialty Plants. The Coalition is a group of six
21 companies whose biotech efforts are focused on
22 developing perennial or specialty plants, that is,
23 small market, agricultural crops or plants used for
24 specialty applications.

25 The Coalition's goals include assisting

1 regulators, policy makers or other interested parties
2 in establishing appropriate science based policy,
3 regulatory guidelines and data requirements for
4 biotechnology derived perennial and specialty plants.
5 Our comments address several aspects of APHIS'
6 regulations under 7 C.F.R. Part 340 as they currently
7 exist and as they may be modified under the
8 alternatives described in the Federal Register notice,
9 as well as the possible environmental impacts of such
10 potential changes to the regulations.

11 We would first note the appropriateness of
12 the effort that USDA has undertaken and state our
13 position that statutory authority given to the USDA
14 under the Plant Protection Act provides a strong,
15 sound statutory basis for continuing the regulatory
16 program of the Part 340 regulations and for carrying
17 out appropriate science-based risk assessments under
18 those regulations.

19 The Coalition, like many industry groups and
20 other observers, believes that the existing Part 340
21 regulations and APHIS' implementation of those
22 regulations have provided the basis for the prudent,
23 safe development of the agricultural biotechnology
24 industry in the United States. The regulations have
25 allowed the development and testing of improved crops

1 and other plants to go forward under a system that
2 provided for a science-based assessment of the
3 potential environmental and plant pest risks. This
4 process helped to assure the public that appropriate
5 federal and state oversight was in place. APHIS
6 should be commended for its stewardship of the program
7 and for its continued willingness to examine the
8 scientific basis for these regulations in response to
9 changing circumstances over the years.

10 In the nearly two decades since the
11 establishment of the coordinated framework in APHIS'
12 oversight of biotechnology derived plants was first
13 outlined, the Agency has overseen tens of thousands of
14 field releases and deregulated about 60 biotechnology
15 derived plant varieties, representing 13 plant
16 species. Throughout this period, there has not been a
17 single validated instance of harm to the environment,
18 agriculture or non-target organisms arising from the
19 use of plants regulated under Part 340. Furthermore,
20 new weeds have not developed as a result of
21 outcrossing from a biotechnology derived plant to
22 either other plants of the same species or related
23 species with which it can interbreed.

24 This last point is important to stress.
25 While it is true that there are potential

1 environmental impacts that are important for a
2 regulatory scheme to assess, it is also true that the
3 hypothetical concerns and disaster scenarios voiced by
4 some observers for the past 20 years have failed to
5 materialize. Biotechnology regulation and public
6 policy must continue to be driven by sound science and
7 the enormous accumulated track record derived from
8 real world uses, rather than from hypothetical fears
9 that experience and science have shown to be
10 exceedingly unlikely.

11 Furthermore, USDA's environmental impact
12 statement must take into account environmental factors
13 other than risks. Many of the products of plant
14 biotechnology have proven and will continue to prove
15 to be beneficial to the environment and to the general
16 public. These benefits have been realized through
17 significant reductions in the use of agricultural
18 chemicals, an increased opportunity to use more
19 environmentally benign pesticides and improvements to
20 the food supply and, more recently, greener methods of
21 industrial production and the clean up of contaminated
22 soil and water.

23 As we go forward, products in development at
24 our universities, at the USDA's Agricultural Research
25 Service and private industry will reinforce these

1 benefits. The current applications of biotechnology
2 will be extended to plants of minor or specialty use
3 and advances in trade development will result in
4 healthier food and plants with greater adaptation to
5 the environment through salt, cold and drought
6 resistance, to name a few.

7 USDA should also consider the negative
8 environmental impacts that might occur if overly
9 strict regulations were to prevent or slow the
10 development of environmentally beneficial
11 biotechnology products. The Coalition would like to
12 stress the following points regarding the questions
13 APHIS is seeking comment on during the EIS scoping
14 process and review regulations pertaining to
15 biotechnology.

16 The first point is the authority currently
17 provided under the PPA gives APHIS flexibility to
18 anticipate and keep pace with the evolving array of
19 biotech applications that scientists are discovering
20 and companies are developing for a diversity of annual
21 and perennial plant species.

22 The second point, APHIS should continue to
23 base their assessment of environmental risk on sound
24 science. Risk assessments should be performed on a
25 case by case basis for a particular trait and a

1 particular plant of interest. This approach is
2 essential for new traits under new development
3 intended for an application in perennial plant
4 species.

5 MR. STONE: Excuse me, Terry Stone. The
6 questions we have, we're going to go through these
7 points and we're going to break it up a little bit
8 with questions, so that we're able to keep a dialogue
9 going. But for the first question, we were having a
10 little bit of difficulty understanding completely how
11 environment is actually defined in the documents, so
12 we were hoping that you could provide us with, in your
13 perspective, how are you defining environment? What
14 was in your minds when you were drafting the document?

15 MS. SMITH: Actually, as I understand it,
16 and part of this drafting came from our environment
17 staff at the Agency uses these in writing and I know
18 as we asked the director of that unit how he was
19 defining environment when we first heard talking about
20 it, all of the kinds of things we could put in this
21 notice, he referred to environment as the full
22 environment, which would include, also, human health
23 issues. So it's not the physical world around us, but
24 it's the full environment, is how it was used.

25 MR. STONE: Okay, so then having said that,

1 it kind of leads into what our second question was,
2 then. So the human environment is a part of that,
3 it's not defined differently. Really, you're looking
4 at this very holistically.

5 MS. SMITH: That's correct.

6 MR. STONE: Okay, fair enough. Okay.
7 Sharie, do you want to go on?

8 MS. FITZPATRICK: Point number three, the
9 U.S. and Canadian Bilateral Agreements on Molecular
10 Environmental Characterization data encompass the
11 essential biological and molecular characteristics
12 needed to assess their potential impact on human
13 health or the environment. These same characteristics
14 should continue to form the basis for risk assessments
15 of new plant species and great combinations that take
16 into consideration the unique aspects of these
17 combinations.

18 USDA APHIS BRS guidance documents for corn
19 and cotton are excellent examples of how data
20 requirements can be flexibly applied on the species
21 and trait. We encourage BRS to encourage similar
22 guidance documents for perennial species using the
23 information received during USDA sponsored workshops
24 held to identify appropriate data requirements.

25 MS. PARKS: One of the questions that we had

1 here was we do really believe in the development of
2 guidance documents, especially around as they come
3 from the input that you get from the workshops. We're
4 wondering if there are other mechanisms to be able to
5 provide data as guidance developments, as guidance
6 documents are developed, assuming that guidance
7 documents are going to be developed for each of the
8 new products?

9 MR. STONE: Yes, similar to the OECD
10 documents or even the Canadian documents where there's
11 input taken from all stakeholder groups, so that
12 there's an opportunity to provide, you know, that kind
13 of an input. First of all, are you considering the
14 development of additional guidance documents? And
15 secondly, in doing so, are you looking at input from
16 all stakeholder groups? We assume that you would.

17 MS. SMITH: We're certainly open to
18 considering how to approach that and this is a good
19 time for us to kind of hear your specific suggestions
20 on what kind of additional documents. We have talked
21 about developing additional documents, but this is a
22 good time to hear specifically what kind should be
23 priorities for us.

24 MR. STONE: Well, for companies that are
25 developing new species, I mean, and I think as time

1 goes on, there's going to be more and more new plant
2 species that are going to be transformed, seeking
3 deregulation.

4 The flexibility is fantastic, but having a
5 framework is really very valuable. From a perennial
6 standpoint simple things such as the number of years
7 for field trials, number of locations in adapted, non-
8 adapted or transition zones, things like that, are
9 really fundamental, because the biology is going to
10 be, a lot of the biological characteristics that have
11 been evaluated are going to be very consistent. But
12 the actual implementation of getting that data
13 requires that kind of guidance.

14 So being able to do that as you go forward
15 and when you're thinking about developing the regs, I
16 wouldn't necessarily see it as codifying regulations.
17 You really wouldn't be able to do that, but it would
18 be nice if there was a vehicle that would allow you to
19 continue to develop these guidance documents.

20 And the workshops have been really nice to
21 be able to, that a lot of the concerns having
22 something come out of those would really be helpful.
23 Then once those documents are drafted, hopefully by
24 APHIS, that you're given the, stakeholders are given
25 the opportunity to provide that input, again similar

1 to what's done in OECD.

2 MS. FITZPATRICK: Point number four, if a
3 tiered risk system is to become part of the new
4 regulations, individual products should be assigned a
5 particular level of risk on a case by case basis,
6 using sound scientific evaluation. It is essential
7 that regulations be based on the risk assessment of a
8 particular trait and a particular species.

9 One question we might have to go a little
10 bit further was, we were wondering if you would please
11 describe for us a hypothetical tiered system that you
12 might be thinking about at this point in time.

13 MS. SMITH: John, do you want to do that?

14 MR. TURNER: Yes, in a sense we have a
15 tiered system today. I don't know if you consider it
16 case by case, but they're very specific eligibility
17 criteria that somebody must meet in order to be field
18 tested for notification.

19 Having at least some of it written down as
20 to what puts it in that tier helps with transparency
21 and is the type of tangible things that we could
22 explore in an EIS. So we were actually looking to
23 build on that and then within permits, we have
24 different levels. We have pharmaceutical permits and
25 other types of permits. So one of the things that

1 we're doing is we would get rid of the notification
2 classification, but things similar to notification
3 might fall under the low risk tier of the tiered
4 permitting system.

5 So you might expect similar types of
6 eligibility criteria there. Inasmuch as we need to
7 address AP and there are some human health components,
8 we might additionally add a food safety component in
9 the same way that many have talked about it in the AP
10 proposals. So said things are allowed to be field
11 tested in this way, would need a food safety review at
12 some point.

13 We have special use categories such as
14 pharmaceutical industrials. They might at least start
15 out in a high risk tier. So those are some examples.
16 They can have a tolerance or not have a tolerance,
17 where really the question, what should these criteria
18 be for the tiers. But those are some ideas that have
19 been kicked around at this point.

20 MR. STONE: John, let me ask you then,
21 because you said from a PMP standpoint, that in the
22 beginning, they would be a high risk category. Are
23 you looking then, and maybe that will change. Are you
24 looking then at the safety of a particular trait
25 itself or the protein that's being produced and as

1 more information is known about that protein, maybe
2 it's an antibody. It really has no human health
3 effects necessarily. Would that be part of that
4 assessment, that we move it to a lower degree?

5 MR. TURNER: As field testing goes on, we
6 are certainly thinking that we would need to start
7 asking more and more questions and find out more data
8 about the proteins themselves.

9 MR. STONE: So they're actually based on
10 risk or safety rather than category, PMP versus --
11 okay.

12 MR. TURNER: The idea that we're thinking
13 about is that it might be able to move from one
14 category to another as the situation comes up.

15 MR. STONE: Okay, one other question then
16 related to, you know, different categories. For
17 perennials, I mean, we're at the same product and
18 you're smiling, because you probably know where I'm
19 going. I mean, we'll have the same trial for numerous
20 years. And the way it's done now is you have to
21 continue to get a new notification each year.

22 I've got to tell you, it's a pain in the
23 neck because we get new notification numbers each year
24 and then from a compliance standpoint and from a
25 record keeping standpoint, it's difficult to keep

1 track of. You guys are doing a great job from an
2 inspection standpoint, but I think for everybody's
3 sake, it would be wonderful if that could be
4 simplified, where maybe an acknowledgement or a
5 notification back to the Agency each year saying,
6 nothing is changing. We're doing the same trial or
7 maybe we're using the same construct but we've added a
8 couple other lines or events. But it's going to be at
9 the same place, performance standards are going to be
10 the same, nothing is changing, can we just get a sign
11 off for renewal so that that number stays the same.
12 That's where we're at, you guys.

13 MR. HOFFMAN: I was just wondering how
14 keeping the number the same is beneficial to you?

15 MR. STONE: Oh, my gosh, I'll tell you, it's
16 really important. Because what happens is, from a
17 compliance standpoint, when you have a number of
18 different cooperators, you're sending out compliance
19 packages to each one of them. And they're all told,
20 you do not plant until you have acknowledgement.

21 Well, the notification number goes to them
22 and then they're waiting to hear from us. You tell
23 them that it's been acknowledged and everything after
24 that, the file, the data that's collected, all the
25 monitoring forms, is all based on that notification

1 number, okay, for us. Each company does it
2 differently to some extent. And then the next year,
3 we get a new notification number. Well, it's not a
4 different file, it's a new notification. From a
5 record keeping standpoint, it sounds simple, but if
6 the numbers can stay the same, then you're using the
7 same file from one year to the next and everything is
8 staying together.

9 What happens if you have new people coming
10 in, into that mid-stream, say you're at a university
11 and they have a technician that's taking the
12 monitoring data. One year he's there and the next
13 year, you know, they have somebody else come in, they
14 may have a tendency to start another file. And it
15 gets very confusing in trying to get information back.

16 I mean, you can imagine if you're a
17 stockbroker and you've got a client and you're dealing
18 with, you know, their transactions and then she gets
19 married and changes her name. And then where does
20 that information go and how does that continue to move
21 on?

22 So in some respects, it's similar to that.
23 And for our company or as a coalition, I think, this
24 has been something that we've been concerned about and
25 certainly we'd love to see changed. Sharie, did you

1 want to say something?

2 MS. FITZPATRICK: We would do things a
3 little bit differently, where we use the new
4 notification number. However, then, when inspected,
5 you need to say, well, yes, our planting date is
6 before the effective date of that --

7 MR. STONE: Right, right.

8 MS. FITZPATRICK: So we're effective, say,
9 February 1, but it was up 2004, but it was in the
10 ground. So actually, our trial predates the effective
11 period.

12 And you say, but we established it under a
13 previous notification. It's just a matter of you have
14 to just connect all the dots. And if things change in
15 your number of locations per year, it's a web. And it
16 is not straightforward and even though we're working
17 under -- I mean, we are being compliant. There are
18 aspects of that that could be misinterpreted or it's
19 just more difficult to show your full compliance in a
20 very clear way. And so adding clarification, one way
21 to add clarification and transparency would be able to
22 keep the same. Even if we had to renew every year, if
23 we could still have a permit of record that you guys
24 would always reference and we're always looking at the
25 same file, not three or four or five.

1 One of the other challenges comes when we
2 need to apply for new permits before the other one
3 expires. That works real well most of the time, but
4 if it's been in process for six weeks, seven weeks,
5 two months, we haven't heard back, there's been
6 instances where a day before it expires, you take the
7 plot of it and you tear it out, just to be sure that
8 you're not out of compliance. And that's not useful.

9 So we want to avoid those situations as much
10 as possible. One other point I might just bring
11 forward for consideration for multiyear and for, I
12 think of it when you do your taxes, the paperwork
13 reduction sort of idea. If there were, very often I
14 believe, and I could be wrong on this, that
15 biotechnology laboratories are inspected and then they
16 can work with organisms within that confined or
17 defined area. And they have a permit or a license.
18 I'm not sure if licensure is the right term, but
19 having a site permit to work as opposed to individual
20 permits for individual trials, I think that especially
21 if you're working with, and again, we can predefine
22 that and do a notification and, you know, define and
23 stay within our limits on genes released or, you know,
24 the elements that go into that. But given a certain
25 list, laundry list of what we're working with, then be

1 available to work with that on site as needed in
2 following -- as long as the performance standards are
3 homogenous across that set. So in other words, you
4 weren't mixing permits and notifications through that
5 example. So you'd have a site permit and I think that
6 would be very useful for primary research stations.
7 It may not work for all instances, but I think it
8 might reduce your paperwork, would reduce numbers in
9 the system and still aid the compliance. Thank you.

10 A little further on point four, the
11 Coalition believes that some product types represent a
12 low risk to the environment and some product types may
13 be perceived to have additional risk associated with
14 them, due to the degree of scientific experience by
15 APHIS with the product, trade or species.

16 As APHIS updates its regulations, it should
17 not be a move towards broadly defining or categorizing
18 the risk associated with new traits, species or
19 products. Rather, APHIS should continue to address
20 risk on a trait by species basis, incorporating
21 information available from the scientific community at
22 large for products that have not previously been
23 through the regulatory process.

24 It is through this process that APHIS can
25 identify the risk posed by a specific product, trait

1 or species and whether it should be considered of low
2 risk or in need of additional considerations.

3 MR. STONE: Well, actually, I think the
4 comments you provided us, John, which you are thinking
5 or which you all are thinking about the way it's going
6 to be structured, I think that covers where we are at,
7 actually. Glad to hear there's that kind of
8 flexibility involved. I think that makes an awful lot
9 of sense.

10 MS. FITZPATRICK: I have one question. With
11 regard to the tiered system for field release, would
12 that at all impact, can you give us some guidance on
13 how you might feel that would influence time for
14 deregulation or review of a submission?

15 MR. TURNER: You're to a level of detail,
16 certainly, that's not resolved. I don't think the
17 tying directly impacts the deregulation decision in
18 terms of length of time.

19 MS. FITZPATRICK: Okay, there was a note,
20 something regarding expedited review at another point
21 and I was wondering if that would at all apply to, if
22 you could foresee that things of low risk may get
23 something like an expedited review?

24 MR. TURNER: It's something that's under
25 consideration and we would love to hear your comments

1 on what the types of things would be appropriate for
2 that.

3 MS. FITZPATRICK: Point number five --

4 MR. STONE: We'll come back to that.

5 MS. FITZPATRICK: Okay. In the past ten
6 years, APHIS has deregulated more than 60 plants under
7 the Part 340 regulations without the need for
8 additional conditions to address minor unresolved
9 risks. Among these are plants with a wide diversity
10 of traits, including those conferring disease and
11 insect resistance, herbicide tolerance, male sterility
12 and quality enhancements.

13 Both annual and perennial plants were
14 evaluated, including several having the ability to
15 outcross to related species. Many of these plants
16 provide substantial environmental benefits are being
17 sold today if there has not been a single confirmed
18 case of these plants posing a risk or becoming a weed.

19 Given this track record, it will be the rare case
20 that would require additional conditions to address
21 unresolved risks for the product to be commercialized.

22 APHIS should continue to review each product
23 on a case by case basis and base their decisions on
24 sound science. We support APHIS having the ability to
25 impose restrictions that will permit commercialization

1 to occur while insuring the safety of the environment,
2 agriculture, humans and other non-target organisms.
3 This is consistent with APHIS' ability to approve
4 products of biotechnology in whole or in part, under 7
5 C.F.R., Part 340.6(d)(3)(i) and to reach a finding of
6 no significant impact through the risk assessment by
7 identifying alternate measures under 7 C.F.R. Part
8 372.5(c) to address potentially unresolved risks.

9 MR. STONE: One of the questions we've got
10 is almost fundamental, really. IT's that when you
11 look at the risk equation that's hazard time exposure,
12 so exposure, if you, just to use as an example, pollen
13 flow. You can calculate the frequency that pollen
14 might flow different distances, so you have an idea
15 what the frequency is. But the hazard is a differing
16 question and to really understand what minor
17 unresolved risks are, it's really valuable to
18 understand what the real hazard is, what the hazard is
19 that's being, you know, evaluated.

20 So we were hoping that you might be able to
21 give us some insight on how you view both the hazard,
22 how you would define hazard and obviously that's
23 pretty broad, but also how you would use that to also
24 then determine what is a minor, unresolved risk.
25 Because when you do get to that point of evaluating a

1 product, you've done a risk assessment. And a lot of
2 these issues should have been or should be very close
3 to being resolved.

4 So if there still are some that are not, it
5 would be really helpful to understand that thought
6 process and to arrive at that point.

7 MS. SMITH: I want to start by making two
8 quick points and then I'll let John answer. First,
9 what I would say is we agree with you, it would be the
10 rare case where we would need to exercise this kind of
11 flexibility, where we'd want to be able to potentially
12 consider it approving something with conditions.

13 MR. STONE: Cindy, could you speak up a
14 little bit more, please?

15 MS. SMITH: We agree with you that we think
16 it would be the rare case that the majority of what
17 will come through the system would come through the
18 system and achieve, as is the current case, full
19 deregulation or approval without condition, assuming
20 all the safety requirements are met.

21 So what we're really intending to do with
22 this provision is to look at building additional
23 flexibility into the system for those rare cases, and
24 these may be cases that we're not aware of what they
25 are yet. One of the things we're trying to do is

1 we're aware that part of why we're evolving the
2 regulations now is because we want to make sure that
3 we're positioned for the new technologies that we're
4 aware are in their infancy stages. And given that, we
5 are trying to be mindful that this system needs to be
6 as flexible as we can. We want to build that
7 flexibility in to address things that -- some things
8 we may be thinking about, but some things we may not
9 even be aware of yet. So I just wanted to make that
10 point, this is really about building in enough
11 flexibility to really keep the system strong in the
12 future.

13 John can probably speak a little bit more
14 specifically to it.

15 MR. TURNER: That's a great segue and I
16 can't really be too much more specific, because it is
17 based on this concept that the regs are going to be
18 forward looking. We see now issues with PMPs and
19 industrials that we weren't thinking much about in the
20 late 1980s. And so this will allow us some
21 flexibility for different types of things. Certainly
22 don't have a class defined at this point --

23 MR. STONE: Yes.

24 MR. TURNER: -- and hazard is definitely
25 case by case.

1 MR. STONE: Right.

2 MR. TURNER: There's no specific hazard in
3 mind that would kick this end. But it's something
4 really depending on how you look at it, you can think,
5 wow, there's going to be an extra regulatory burden,
6 or alternatively, to let something go forward into
7 commercialization that wouldn't be if you didn't have
8 this mechanism. That's our thinking, just to allow
9 flexibility and to amplify what Cindy said, in rare
10 cases.

11 MR. STONE: Yes.

12 MR. TURNER: Certainly this is probably not
13 going to be the norm.

14 MR. STONE: That's helpful. So I would
15 guess, then, from the teleconference that you had a
16 few weeks ago prior to the release or the day of the
17 release, listening to what you're saying, it seems
18 that products that are either in the process or have
19 gone through the process probably would be
20 characteristic of those things that would be more
21 likely to continue to be deregulated without these
22 kinds of conditions potentially.

23 Whereas other traits that may or may not be
24 understood at this point are probably different than
25 the kinds of input traits, are probably looking, have

1 the potential to be -- it gives that flexibility for
2 you to allow those products to get to the market with
3 perhaps some condition.

4 MR. TURNER: Certainly we're not thinking
5 about second looks at that.

6 MR. STONE: Yes, I would hope not. Let me
7 ask you something, because from a perennial
8 standpoint, this is a pretty important issue for us.
9 If you do go down that road, it makes sense, I can
10 understand why you would and actually I think it's
11 great that you're looking at ways to be flexible,
12 because technology is going to continue to change and
13 there are going to be a lot of different traits, will
14 that kind of -- I'm just going to use the word
15 approval, okay -- will that kind of approval mean that
16 -- and I'm thinking about it from a perennial
17 standpoint, so where people are making an investment
18 over five, ten years or more, they'll be much less
19 likely to do that if there's a belief that that
20 approval, whatever that is called, is taken away
21 because of a particular issue, versus allowed to,
22 well, based on this, you know, will continue to gather
23 information or use another mechanism to be able to
24 restrict the use but not necessarily say that that
25 product can't remain on the market. Do you see where

1 I'm going with this?

2 I know you can't envision it all, but
3 there's a certain amount of, certain concerns that
4 hopefully you'll consider when you're going through
5 this, that those are, it's different than an annual.
6 Perennials have a much greater economic commitment
7 that's being made when the decision is before they go.

8 MS. SMITH: That's a good comment and we'll
9 certainly factor that in. I would say that if there
10 is some low, unresolved risk that we were to make a
11 decision, if we move in this direction of having this
12 kind of flexibility and we issue, say, an approval of
13 the conditions, let's say, for the sake of argument,
14 and it was something that we wanted to gather
15 information on, we certainly would do a legitimate
16 evaluation of the information gathered through that
17 period and come to a conclusion in terms of what we
18 learned as a result of that information that we might
19 have looked at.

20 And whether that would be addressed, you
21 know, let's say if something were to show that was
22 more of a risk than we had anticipated, then we would
23 certainly have to decide at that point whether one
24 option was to change the approval.

25 MR. STONE: Right.

1 MS. SMITH: But, you know, what I would say
2 is that's really not entirely different than the
3 situation we have today.

4 MR. STONE: That's right.

5 MS. SMITH: We have the ability today that
6 if there is some unanticipated effect, to revisit our
7 regulatory decision and bring something back in. So
8 we would look at what the results were with that, you
9 know, what we learned in that time period and consider
10 our options at that point.

11 MR. STONE: Sure, because right now if
12 there's an adverse risk of some kind, you're required
13 to look at that anyway so you could take it off the
14 market. So we're appreciative of that.

15 It seems that you probably would not go
16 forward with actually deregulating a product if there
17 was an unresolved risk that were to be realized. It
18 would probably be something that you would have to
19 pull off. I guess that's where it's at, okay.
20 Thanks, that's helpful.

21 MS. SMITH: That's correct.

22 MS. FITZPATRICK: And one bit more of
23 clarification. When you talk about the potential for
24 conditionals, would you see that as something that
25 would have a sunset or a point in time that the

1 conditions would exist for a certain period of time?

2 MS. SMITH: I believe that would be the
3 case.

4 MS. PARKS: I have an additional question
5 that's kind of a clarifying question. Terry, you used
6 the term unfamiliar when you were talking about minor
7 unresolved risks. And John used the term products in
8 their infancy. There are a lot of products in their
9 infancy, but by the time they come forward, I would
10 guess probably aren't unfamiliar any longer. I'm just
11 trying to get a distinction between something in their
12 infancy. Is that related to your definition of being
13 unfamiliar at this point?

14 MR. TURNER: Familiarity, and we talked a
15 bit about it the other day, there's familiarity with
16 the trait in that species, but in a general sense,
17 it's having enough information to do a risk
18 assessment, enough knowledge about the host plant,
19 enough knowledge about the trait and the receiving
20 environment and how they might interact.

21 MS. PARKS: Okay, thanks.

22 MR. TURNER: Not necessarily the same, I
23 think, as infancy.

24 MS. PARKS: Okay, yes, because infancy was a
25 term that had been used as what might characterize

1 something in the tieing system. So I just wanted to
2 make sure that with enough information, it doesn't
3 matter if it's new technology, it's the amount of
4 information that's available.

5 MR. STONE: Just out of curiosity, if you
6 were going to approve a product or deregulate it or
7 say there was a condition placed on it and it
8 required, I'm thinking like the EPA with insect
9 resistance management and the need for monitoring it
10 or the need for a refuge being placed or something
11 like that. If that happened, how would you enforce
12 something like that? Would that enforcement be placed
13 back on the developer of the technology or the
14 distributor who delivered it or the people who are
15 actually the farmers or whatever?

16 MS. SMITH: That's exactly the kind of
17 question that we're looking for comments on so that we
18 can evaluate what the options would be in that case
19 and come to some conclusion. At this point, we're
20 really open.

21 Another thing that's also worth noting is
22 that as we are considering this option of maybe
23 approving something with the condition to gather a
24 certain amount of data over a certain number of years
25 to see if it really can be moved to a full approval,

1 that gathering of information is something that, in
2 terms of the sources of where that information can
3 come from could be, you know, we're looking at lots of
4 options. So it might be a requirement to the company,
5 it might be that we're going to establish some kind of
6 a grant or work with another agency to do research or
7 professional scientific society to do some research to
8 gather some information.

9 So a lot of this really, at this point, is
10 really open. And even when we come to our
11 conclusions, we really want to build as much
12 flexibility in terms of how we proceed as we can.

13 MR. STONE: Right. Maybe this is a segue
14 into it, because we continually are talking about
15 flexibility. You guys know this better than us, it's
16 taken a lot of time to get products through the system
17 and realize fully that there's a lot of issues that
18 you've been dealing with between lawsuits and changes
19 in regulations and compliance investigations and all
20 of that.

21 But is it possible that, and we would like
22 you to consider that, that if you're looking at a
23 product that, especially if it's vegetatively
24 propagated and you need to each time, just like
25 potatoes was, you need each time to retransform

1 another variety for, you know, same, it's going to be
2 planted in the same area necessarily, same trait, same
3 construct oftentimes, is it possible to get to a point
4 where you're essentially -- given that there's
5 bridging data, molecular data there to demonstrate,
6 you know, what's been inserted in the biology data can
7 bridge easily to the existing or the original line
8 that was approved, the antecedent.

9 Can you get to a point where this is really
10 more of an acknowledgement, where you can provide that
11 data provided to you and within 60 or 90 days, similar
12 to a permit, frankly, that you can review that data
13 and say this is consistent with the antecedent?
14 There's no unresolved risk at that point, because you
15 really dealt with that with the antecedent organism.
16 It allows that to go forward.

17 I can tell you for specialty companies that
18 are dealing with that kind of an issue, that would be
19 incredibly helpful. It doesn't take away any
20 responsibility, of course, to EPA or to FDA or even
21 internationally, because you'd still be developing the
22 same data set. But the important thing is actually
23 being able, especially for a smaller company, being
24 able to get through with USDA, which is really going
25 to be the agency on those for something that adds just

1 so much.

2 MR. TURNER: I would encourage you to lay
3 out that argument as a response to a number of --
4 expedited review.

5 MR. STONE: Good, okay.

6 MR. WACH: Would these be articles that
7 would not qualify for notification?

8 MR. STONE: I'm sorry, could you repeat
9 that?

10 MR. WACH: Would these be article that would
11 not qualify for notification, the ones, the particular
12 --

13 MR. STONE: Right.

14 MR. WACH: When you say 90 days, that's
15 longer than we'd take to review a notification. So
16 you're talking about articles that would require an
17 annual permit, is that what you're --

18 MR. STONE: In the case I'm talking about,
19 it actually would be whether it's an annual or a
20 perennial. As long as an antecedent was already
21 approved. Let's use potatoes again. If you have a BT
22 potato variety that's been approved and it has --

23 MR. WACH: Approved meaning deregulated?

24 MS. SMITH: Deregulated.

25 MR. STONE: Yeah, I'm sorry, deregulated.

1 I'm not talking about registration at EPA, I'm talking
2 about it's deregulated by USDA. The promoter, the
3 gene of interest and the terminator and perhaps even,
4 you know, the selectable marker, were identical. And
5 then you had another one and you deregulated that and
6 then you had another one that was coming through. It
7 wouldn't matter in my mind if it was annual or
8 perennial or whatever, because the original risk
9 assessment would have been done on that antecedent.
10 The assumption would be if you can bridge to that
11 original data base, either by the gene of interest, in
12 particular, with that second article, that as long as
13 you can bridge to the original data set, that it would
14 be more a matter of reviewing that that second line is
15 no different than the first line.

16 You would do the same data set, you'd do the
17 same studies, more than likely. That's where the
18 guidance documents offer so much value, but then the
19 review process would be really short. Because it
20 would be more of an acknowledgement that, and what
21 APHIS would essentially be saying is this line is no
22 different from the antecedent, which is the risk
23 assessment was based on, and then you'd be able to go
24 forward.

25 MR. WACH: Thanks.

1 MR. STONE: Does that answer your question?

2 MR. WACH: Yes.

3 MS. KOEHLER: Thanks for the comment.

4 MR. STONE: Oh, sure. I've got to tell you,
5 if you guys are able to do something like that, it
6 would be tremendous for this industry.

7 MS. FITZPATRICK: Moving to point six,
8 familiarity can be established through science.
9 Science should be the basis for making scientific
10 decisions regarding safety and risk. The National
11 Academy of Sciences describes familiarity as having
12 enough data for regulators to make a determination of
13 safety. Many new products that will enter into the
14 regulatory system may be new to APHIS, but have
15 substantial underlying scientific familiarity through
16 product performance standards based on biology of the
17 organism, trait and management practices.

18 Additional information about the trait is
19 gained through scientific research, laboratory work,
20 greenhouse experimentation and field trials. APHIS
21 should allow applicants to use all of this information
22 to demonstrate familiarity. Anything else?

23 Point seven. Finally, we are supportive of
24 APHIS' effort to insure transparency in the process of
25 assessing risk. Input from all interested

1 stakeholders should be considered when determining the
2 regulated status of a new product. We believe that
3 APHIS should continue to work towards increasing the
4 public's understanding of how biotechnology is tested
5 and regulated. Doing so will further enhance the
6 dialogue regarding these products and help to insure
7 potential risks are evaluated appropriately so that
8 this valuable technology continues to be employed and
9 its benefits realized.

10 MS. SMITH: I'm sorry, can I ask you to back
11 up to APHIS would continue to work toward --

12 MS. FITZPATRICK: We believe that APHIS
13 should continue to work towards increasing the
14 public's understanding of how biotechnology is tested
15 and regulated. Doing so will further enhance the
16 dialogue regarding these products and help to insure
17 potential risks are evaluated appropriately so that
18 this valuable technology continues to be employed and
19 its benefits realized.

20 MS. SMITH: Thank you. We agree.

21 MS. FITZPATRICK: With that, that completes
22 our formal prewritten. There are a couple of other
23 comments that we'd like to kind of bring up. Should I
24 offer one? Sort of the miscellaneous at the end here.

25 Regarding the question in the Federal

1 Register surrounding performance based containers for
2 movement of interstate movement, etc. I guess we
3 believed we kind of would like to put forward the idea
4 that currently we write performance standards
5 surrounding our field trials and that they could be
6 encompassing and performance based and also encompass
7 the containers under which you would move. And they
8 would need to be appropriate trait by species again,
9 as well, rather than prescriptive.

10 We clearly support that, but we believe that
11 the mechanism could be quite easily molded, the
12 mechanism right now for field trial performance
13 standards could actually be consistent with that or
14 compatible with that for containment to during
15 movement. Any other comments on that?

16 MR. STONE: No, I think you said it really
17 well. It's all about containment. Your performance
18 standards are about containment in the field, then it
19 would just transfer over to how it would ship. Rather
20 than being prescribed, it would just be part of the
21 performance standard.

22 MS. PARKS: I have one question. In point
23 five, you all discussed the notion of non-viable
24 material and we were curious as to how far does that
25 extend? What are some of your thinkings? Is it

1 really plant material?

2 MS. SMITH: As far as our thinking, well, to
3 clarify it, if you look in the definition of the
4 Noxious Weed Act, it refers to not just plants, but
5 plant parts. And so you can have some non-viable
6 plant material -- it's not the whole plant. We're
7 just acknowledging that within that definition, it can
8 go to that authority, that that's a new component that
9 we've not dealt with in the past. So we're just
10 laying that out for public discussion to consider and
11 make recommendations to us about whether there's some
12 way that we should take, whether there's some way we
13 should be addressing non-viable plant material?

14 MR. STONE: Was there a particular example
15 that you had in mind when you were thinking about it,
16 or was it just --

17 MS. SMITH: No, not really. It's just the
18 fact that within that noxious weed definition, we're
19 just trying to highlight for the public that that's a
20 change from what we can regulate currently, since
21 currently we're regulating viable plant material.

22 So we really don't have something in mind
23 for what we're looking at there, but it's just the
24 recognition that that's something different than what
25 we had done in the past. We just want to put that out

1 for comment.

2 MS. PARKS: The question refers to plants,
3 it includes not only plants, but plant products, but I
4 heard you say plant materials. There are products
5 from plants, so I'm just trying to -- is it actually
6 the plant, the growing material?

7 MS. SMITH: It's not our intention to look
8 at -- well, actually, no. We're early in the process.
9 I guess I don't want --

10 MR. TURNER: Our thinking is in our infancy
11 here.

12 (Laughter.)

13 MS. SMITH: One thing I would feel
14 comfortable in saying clearly it's not this that we're
15 thinking about, but acknowledging John's remarks this
16 morning that our thinking will need to evolve based on
17 the issues that are raised. Maybe it's better just to
18 say that that's something that's in the noxious weed
19 authority. We could look at that and we'll have to
20 think about that.

21 MS. PARKS: Great, thank you.

22 MR. STONE: It's been an interesting one to
23 discuss. Here another one for the AP question and the
24 issues related to that. Rather than give you our
25 perspective so much, we would be very interested in

1 understanding what kind of data or information you
2 would need to be able to establish an AP threshold for
3 a product? What would that look like, for you to be
4 able to make that happen? You're aware of how
5 important it is for the industry to have something
6 like this and certainly internationally being able to
7 have the United States establish a precedent. What
8 would you need to be able to make that happen?

9 MS. SMITH: Well, in order for us to
10 consider if something should be exempted, if it
11 occurred at a low or an intermittent level, that would
12 have to be determined by criteria that we would set.
13 And so, of course, the data would have to speak to
14 those criteria.

15 MR. STONE: Right.

16 MS. SMITH: So, for example, it might be not
17 a known allergen, you know, it's safe for human
18 consumption. So whatever that series of criteria is
19 that we would establish would be the kind of
20 information that we need to be able to --

21 MR. STONE: So are you looking for input on
22 what that criteria would be at this point?

23 MS. SMITH: Yes.

24 MR. STONE: Okay. How would you view, well,
25 that's all right, I won't go there. Okay, thanks.

1 MR. TURNER: And those criteria may relate
2 in some way to the tiered system, which is the low
3 risk category for which there would be allowable AP.

4 MR. STONE: Thanks, John.

5 MS. SMITH: That would be a logical fit.

6 MS. FITZPATRICK: Another brief topic would
7 be also one of the questions in the Federal Register
8 talked about exemptions from interstate movement
9 notification for Arabidopsis, that question. If a
10 group were interested in asking for an exemption, what
11 would the process be to get that exemption?

12 MR. TURNER: What we're really asking on
13 this one, Arabidopsis is already exempt, so you don't
14 have to ask for it.

15 MS. FITZPATRICK: Right.

16 MR. TURNER: In the regulations. We're
17 saying should we list maybe some other plants that are
18 exempt from needing a notification or permit for
19 interstate movement. So maybe we didn't ask it
20 clearly. Should we treat some other types of plants.
21 So it wouldn't be granting it on a case by case as
22 maybe saying these types of plants are exempt from
23 interstate movement permit requirements.

24 MS. FITZPATRICK: These types or these
25 species?

1 MR. TURNER: It would be some sort of
2 specific listing.

3 MS. FITZPATRICK: So then you would offer a
4 specific listing at this point in time, but for future
5 flexibility, what would the, how could you amend that
6 list, I guess, is what would be the process?

7 MS. SMITH: Consider also what a process
8 would be?

9 MR. TURNER: Yes.

10 MS. SMITH: So we'd want to lay out,
11 potentially, in our regulation what the process would
12 be to -- with a list, to add to the list.

13 MS. FITZPATRICK: For example, I'm just
14 thinking in terms of fairness and benefit to the
15 public at whole. If one company had an interest in an
16 organism on the list and that's great, it's already on
17 the list and someone wanted to add one, they would be
18 the first ones to bear the burden of, you know,
19 pushing it through the process. And if it's -- I'm
20 just trying to look for some guidance around how would
21 that process move forward, be thinking about that.

22 MS. SMITH: That's the part I think we'd be
23 open for comments on.

24 MR. TURNER: Yes, and to check legally, can
25 we do that without amending, but yes, that is a good

1 point.

2 MR. STONE: Maybe just a process question.
3 And when we were developing our comments to finally
4 submit to you in written form, how would you like, are
5 you splitting up the questions amongst yourselves, you
6 know, or is one person going to get the whole list and
7 then go through them? We want to be able to develop
8 them so it's easy for you to be able to review and
9 consider our comments.

10 MS. FITZPATRICK: We're building redundancy
11 --

12 (Laughter.)

13 MS. PARKS: Do we need to be so redundant as
14 we answer the questions, so if there is one group that
15 was considering question two, you wouldn't refer in
16 question three back to question two, if they didn't
17 have those responses in front of them as they were
18 working through it. So it's kind of the process.

19 MR. STONE: Process oriented.

20 MS. SMITH: We appreciate your willingness
21 to make the process easy on us. The concern I have is
22 we could give you some suggestions, but since we
23 wouldn't expect that everyone else would get the same
24 suggestions, asking you to repeat in every section,
25 for example, you know, it would be a lot more work for

1 you, but as a system, it's probably not going to work
2 overall. So my suggestion is just follow in the order
3 of the questions and use your best judgment and we'll
4 have a really top notch process put together with some
5 top notch, talented individuals that will be reading
6 through the comments and evaluating them.

7 MR. STONE: Retain flexibility.

8 MS. SMITH: That's right. We appreciate
9 your sensitivity to our situation.

10 MR. STONE: Let me just ask you a couple of
11 other process type things. So are the transcripts of
12 each of these meetings going to be in the docket? Is
13 that how it will be made available?

14 MS. SMITH: There will be some kind of
15 documentation related to all of these meetings, as
16 part of the public record. I'm not sure, yet. We
17 still need to check with our lawyers and see what's
18 appropriate. I'm not sure if that's a verbatim
19 transcription of each of these sessions or if it's
20 some kind of a summary.

21 MR. STONE: Okay.

22 MS. SMITH: But something will be in the
23 administrative record and then we're also looking at
24 whether that would also be useful just to post on our
25 website so others have that information, as well.

1 MR. STONE: Okay, that's great. Then the
2 other question, then, is so after these scoping
3 meetings which you're having now, are you planning on
4 having additional public meetings for scoping purposes
5 and then --

6 MS. SMITH: Well, not for scoping purposes.
7 At the moment, we're not planning public meetings for
8 scoping purposes for the EIS. We are talking about a
9 number of different kinds of meetings, some on more
10 general topics, some specifically scientific meetings
11 that will be public in nature.

12 MR. STONE: Okay.

13 MS. SMITH: We see probably more of those
14 coming in conjunction with putting out the proposed
15 rule, where we have more specific proposals for people
16 to talk to and react to and talk with us about.

17 MR. STONE: Okay.

18 MS. SMITH: But we're really very open. As
19 we go through the process, our thinking evolves almost
20 daily in terms of how we plan to proceed. So we're --

21 MR. STONE: So then you do look at, then
22 after this series of meetings here, you'll be able to
23 go back and draft the EIS?

24 MS. SMITH: Actually, we've already begun
25 the initial work of kind of laying out the framework

1 for the EIS.

2 MR. STONE: Oh, great, so then the public
3 meetings would be a round, commenting on the EIS and
4 the rest?

5 MS. SMITH: Well, we're thinking that the
6 public meetings may be more commenting on the proposed
7 rule.

8 MR. STONE: Oh, on the proposed rule? Okay.

9 MS. SMITH: But again, we may change our
10 thinking there.

11 MR. STONE: Okay, still looking for next
12 year to be able to have this done, or is it two years?

13 MS. SMITH: Well, our intention is to try to
14 complete the EIS this year. That will be largely
15 influenced by the kinds of comments that we get and
16 the range of issues that we feel like we need to
17 address.

18 MR. STONE: Okay.

19 MS. SMITH: I guess our mantra is this is a
20 priority for the Agency, we're bringing a lot of
21 resources to bear. We certainly are giving it full
22 attention, but we also are not going to rush through
23 to the extent that it compromises the integrity, so it
24 is a priority.

25 MR. STONE: You'll also keep as a priority

1 the products that are in the que for deregulation, I
2 guess?

3 MS. SMITH: And all the other work that we
4 have on our plates.

5 MR. STONE: Just kidding.

6 MR. HANDLEY: Can I ask who those six
7 companies are that were on the Coalition?

8 MS. PARKS: Sure.

9 MR. STONE: Sure.

10 MS. PARKS: It's ArborGen, Scotts, Forage
11 Genetics. We also have U.S. Sugar, Applied
12 PhotoGenetics and Plantgenics.

13 MS. SMITH: Good question, thank you. Do we
14 have some other questions?

15 MS. BECH: Yes, I had a question. When you
16 were talking about the AP issue and you said that of
17 course looking at this issue is very important to the
18 industry and what kind of criteria you would be
19 considering. Did you say something about establishing
20 some sort of threshold or something and could you
21 elaborate a little bit on what you mean by threshold?
22 Are you talking about like .9?

23 MR. STONE: Yeah.

24 MS. BECH: Do you mean to go to that level
25 or here's a set of criteria that we would consider

1 eventually talking about?

2 MR. STONE: Maybe, I don't think you can set
3 a certain threshold for every species and every crop.
4 Certainly, it's got to be case by case in that
5 respect.

6 And some of that probably would be based on
7 the ability to actually meet that. But, you know,
8 maybe really, and from what John said, too, maybe a
9 way to look at that is based on a threshold based on
10 what the potential risk is. I don't mean of it
11 occurring, I mean for the trait, for example.
12 Thresholds being considerably higher, more flexible
13 for things that have a very well documented safety
14 record.

15 For those that, and I mean the trait in
16 particular. For those that don't have that same kind
17 of record, perhaps it could be a tighter threshold,
18 lower, based on, you know, again the degree of
19 potential risk, either to the environment or to humans
20 in that target safety.

21 MS. BECH: Okay.

22 MR. STONE: That's kind of off the record,
23 but generally we're weight considerate is a way to
24 think about it. Having a threshold of some kind is
25 very important and for perennial crops or even for

1 specialty, and you're thinking of minor uses and the
2 like, it's when you talk to companies and individuals
3 who are trying to bring those products to the market,
4 regulatory is the hurdle. I mean, it is the barrier
5 to entry.

6 So when you have a situation where a company
7 is wanting to bring something forward but they're
8 faced with having to get approval in every country in
9 the world that has regulations where there may be even
10 a small portion exporting to, especially now with the
11 CBD, the Convention of Bio Diversity, frankly, it's
12 not doable.

13 So being able, and not only that, the risk
14 and the uncertainty of even attempting something like
15 that makes getting any kind of venture capital funding
16 impossible. Having something that enables you to take
17 some of that risk away, and if it is a threshold, then
18 you're able to design a system, whether it's identity
19 preservation or distribution or whatever, that allows
20 you to work within that framework, so then your
21 product concept becomes based on what that limitation
22 is and you're able to actually move forward.

23 So take a vegetable, for example, that you
24 can develop strictly for a fresh market. It's going
25 to stay in the United States, although there are

1 frozen product that is also exported to Japan. Well,
2 if you can establish a threshold and you know that you
3 can bring that product to the market, to the fresh
4 market and that it's not going to go into the frozen
5 market, you have an ability to have a product. You
6 have something you can bring to the market. And
7 that's very encouraging versus, again, the idea that
8 you've got to go to every potential country where
9 something might be exported. That's where thresholds
10 can be helpful.

11 MR. TURNER: One aspect of that and, of
12 course, we're open at this point. I'm sure you're
13 aware there's been discussions within the Government
14 and the outside as to whether there should be an
15 actual number or whether the concept of low and
16 intermediate, if it meets certain criteria, then some
17 low level would be tolerated. So, I mean, you're
18 clearly coming down on one side or the other of the
19 issue.

20 MR. STONE: Yes.

21 MR. TURNER: We'll be hopeful to see that in
22 the comments.

23 MR. STONE: That's good.

24 MS. SMITH: This is great discussion.

25 MR. STONE: Yes, thank you very much for

1 your time, everybody.

2 MS. SMITH: There's a lot of information to
3 share. We need to bring this to a conclusion, so I'll
4 just thank you again. This has been really great.
5 Thank you all.

6 (Whereupon, at 12:25 p.m., the meeting was
7 adjourned.)

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REPORTER'S CERTIFICATE

DOCKET NO.: N/A
CASE TITLE: Stakeholders Meeting
HEARING DATE: February 26, 2004
LOCATION: Riverdale, Maryland

I hereby certify that the proceedings and evidence are contained fully and accurately on the tapes and notes reported by me at the hearing in the above case before the United States Department of Agriculture.

Date: February 26, 2004

Renee Miskell
Official Reporter
Heritage Reporting Corporation
Suite 600
1220 L Street, N.W.
Washington, D.C. 20005-4018

Heritage Reporting Corporation

(202) 628-4888