

DEPARTMENT OF HEALTH AND HUMAN SERVICES

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PUBLIC HEALTH SERVICE

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FOOD & DRUG ADMINISTRATION

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CENTER FOR DRUGS EVALUATION AND RESEARCH

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ADVISORY COMMITTEE FOR PHARMACEUTICAL SCIENCE

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SITE SPECIFIC STABILITY SUBCOMMITTEE

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Wednesday,

September 22, 1999

The meeting took place in the CDER Advisory Committee Conference Room, 5630 Fishers Lane, Rockville, Maryland at 8:30 a.m., Steve Byrn, Ph.D., Chairman, presiding.

PRESENT:

STEVE BYRN, Ph.D.	Chairman
KIMBERLY LITTLETON TOPPER	Executive Secretary
LEON LACHMAN	Academic Representative
GARNER PECK, Ph.D.	Academic Representative

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ALSO PRESENT:

BILL BRADLEY	Industry Representative
ROBERT KASUBIK	Industry Representative
KAREN MALIK	Industry Representative
SCOTT REYNOLDS, Ph.D.	Industry Representative
ERIC SCHEININ	FDA Representative
ROBERT SEEVERS, Ph.D.	FDA Representative
ROGER WILLIAMS, M.D.	FDA Representative
CHI WAN CHEN, Ph.D.	Working Group Member
ANTON H. AMANN, Ph.D.	Public Comment
TOBIAS MASSA, Ph.D.	Public Comment
SEAN BRENNAN, Ph.D.	Audience Comment
BOB CLARK	Audience Comment
COLIN GARDNER, Ph.D.	Audience Comment
BOB JUERSSI, Ph.D.	Audience Comment
BOB POLLOCK, Ph.D.	Audience Comment
SUVA B. ROY, Ph.D.	Audience Comment

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I-N-D-E-X

Call to Order 4

Conflict of Interest Statement 4

Introduction of Committee 5

Review of Questions and Past Meeting 7

Discussion of Approaches 117

Open Public Hearing 79

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

2 (8:35 a.m.)

3 CHAIRMAN BYRN: Good morning, everyone. I'd
4 like to call this meeting to order. The order -- the
5 early order of activities is that Kimberly Topper is
6 going to read a conflict of interest statement, and then
7 we'll introduce the members of the committee.

8 MS. TOPPER: The following announcement
9 addresses conflict of interest with regard to this
10 meeting and is made as part of the record to preclude
11 even the appearance of such at this meeting.

12 In accordance with 18 USC 208, general
13 matters limited waivers have been granted to all
14 committee participants who have interest in companies or
15 organizations which could be affected by the
16 subcommittee's discussion of the March Site Specific
17 Stability Proposal from the Agency and the public
18 comments submitted to docket 98D362.

19 A copy of these waiver statements may be
20 obtained by submitting a written request to the Agency's
21 Freedom of Information Office in Room 12A30, Parklawn
22 Building.

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1 In the event that the discussions involve
2 any other products or firms not already on the agenda for
3 which FDA participants have a financial interest, the
4 participants are aware of the need to exclude themselves
5 from such involvement and their exclusion will be noted
6 for the record.

7 With respect to all other participants, we
8 ask, in the interest of fairness, that they address any
9 current or previous financial involvement with any firm
10 whose products they may wish to comment upon.

11 Thank you.

12 There is a couple of administrative things.
13 We have new microphones. All you have to do is press the
14 button and it will be on. If it's red, you're live.
15 Please make sure you speak directly into the microphones.
16 Press the button and it will go off.

17 CHAIRMAN BYRN: Okay, let's go around and
18 introduce ourselves.

19 My name is Steve Byrn. I'm a Professor and
20 head of the Department of Industrial Pharmacy at Purdue
21 University.

22 MR. LACHMAN: I'm Leon Lachman, Lachman

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1 Consultants Services.

2 MR. SHEININ: Eric Sheinin, Office of
3 Pharmaceutical Science, FDA.

4 DR. SEEVERS: Bob Seevers, Office of
5 Pharmaceutical Science, FDA.

6 DR. WILLIAMS: Roger Williams, CDER, Office
7 of Pharmaceutical Science.

8 MR. BRADLEY: I'm Bill Bradley, Vice
9 President, Technical Affairs of the Consumer Healthcare
10 Products Association.

11 DR. KASUBIK: I'm Rob Kasubick representing
12 the generic industry.

13 DR. REYNOLDS: I'm Scott Reynolds
14 representing PhRMA.

15 MS. MALIK: Karen Malik representing HIMA.

16 DR. PECK: Garnet Peck, Professor of
17 Industrial Pharmacy, Purdue University.

18 CHAIRMAN BYRN: Okay, as you can see -- did
19 we hand out an agenda to the -- as you can see from the
20 agenda, the plan is to have some presentations from the
21 committee members. I want all committee members who are
22 not listed to realize that if you would like to make a

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1 presentation, we can include you after Scott Reynolds'
2 presentation.

3 We'll then have committee discussion and
4 proceed through -- and then have an open public hearing,
5 followed by a discussion of approaches to resolution of
6 the issues brought up.

7 So I think we can begin with Bob Seevers
8 from the FDA reviewing the questions and discussions from
9 the last meeting.

10 DR. SEEVERS: Good morning. Everybody got
11 me in back?

12 It's good to be here, particularly because
13 the participants have worked hard to come to some sort of
14 consensus about what's been a very controversial issue.

15
16 Kimberly, if I could have the next overhead,
17 please.

18 This is a very brief history. If you look
19 at the 1987 stability guideline, the red book from the
20 Agency, you'll see that the concept of site specific
21 stability is present; but over the years, it's been
22 implemented by the Agency in a very inconsistent manner.

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1 What we tried to do in the draft domestic
2 stability guidance that was put out in June of 1998 is
3 provide a framework for a consistent regulatory policy on
4 site specific stability. There were a number of
5 stability guidance comments related to this topic.

6 I think it's safe to say it's the one most
7 discussed, most concerned issue in the stability
8 guidance. In July, we had a meeting -- July of '98,
9 after the guidance came out, we had a meeting on site
10 specific stability.

11 We presented the proposal in the draft
12 guidance. We heard from a number of interested
13 participants from industry, who raised a number of
14 concerns. As I said, the guidance received a number of
15 comments.

16 On February 3rd of this year, we had a pre-
17 meeting with the academic experts who are members of this
18 subcommittee to bring them into the loop on this issue.
19 On the 29th, we put out a draft tiered proposal for site
20 specific stability.

21 And on the 31st of March of this year, we
22 had our previous subcommittee meeting, at which a number

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1 of presentations were made. We then reopened the
2 guidance for comment so that anyone who wished to comment
3 on this issue, or indeed any other, could address that.

4 Overall, more than 60 entities,
5 corporations, individuals and trade organizations
6 commented on the guidance. In my office, you will find
7 what amounts to a ream of paper just of comments. When
8 we organized that by specific comments addressing
9 individual issues, there were nearly 3,000.

10 The stability committee, of which I am
11 chair, is currently engaged in making revisions to the
12 guidance based on the comments we've received. All
13 aspects of the guidance were covered.

14 Now let's talk a little bit about what we
15 heard from the public on the site specific stability
16 issue. The comments break down into four basic areas:
17 the regulatory basis for site specific stability, the
18 scientific validity of requiring site specific stability,
19 the logistical and economic concerns of the
20 pharmaceutical industry if the proposal either in June of
21 '98 or the revised March 31st, '99 proposal were
22 implemented, and technical aspects of it.

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1 If I could have the next slide, we'll share
2 with you some of the scientific comments that we heard.

3 One thesis presented to us by a number of
4 commenters is that stability is intrinsic to the drug
5 product; and therefore, site specific stability would not
6 be necessary. I presented a number of examples at the
7 March 31st meeting which the Agency has seen over the
8 years indicating that that's not universally true, that
9 there can be problems.

10 I'll come back to those examples, without
11 going through them again, later in my talk.

12 The main message that we heard from industry
13 is the second bullet point here, that process validation
14 and technical transfer, when done correctly, provide
15 sufficient assurance that the product made at the new
16 site will be the same as the product made at the pilot
17 site.

18 We heard the concern that a site change is
19 less critical than a scale up at the same site, but no
20 additional stability is required by the Agency for scale
21 up up to a factor of ten. We also heard that site
22 specific stability should not apply to drug substances.

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1 The regulatory comments we heard can be
2 summed up on this slide. First, it's contrary to or goes
3 beyond ICH or the spirit of ICH. The Agency
4 understanding of ICH Q1A has been that topics not
5 addressed there were not addressed for a couple of
6 reasons.

7 One, because they did not come up in the
8 drafting of the document. Or two, because they did come
9 up and a consensus among the ICH parties could not be
10 achieved. That being the case, the Agency understanding
11 has been that where ICH is silent, the domestic
12 regulatory agency can set policy, and we feel that's the
13 case here.

14 We have heard that site specific stability
15 is inconsistent with what is in FDAMA, specifically where
16 FDAMA says that we can approve based on pilot data. And
17 the Agency agrees that we can and would approve a new
18 drug based on pilot data -- we do that -- but that what
19 would be approved would be the pilot site of manufacture.

20 FDAMA, similarly to the ICH situation, does
21 not address what data would be needed from the commercial
22 site. Similarly, the theory behind ICH, and behind the

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1 domestic guidance I would say as well, is that we're
2 looking for a conservative expiration dating period.

3 We want the drug to be good at the end of
4 its expiration dating period and it doesn't suddenly turn
5 into a pumpkin at midnight on that date. Therefore, if
6 there is a minor concern about stability due to a change
7 of site, the conservative expiration dating period would
8 take that into account and allow for a little wiggle
9 room, if you will.

10 Let's talk about what we heard in terms of
11 the logistic, economic and technical issues. Site
12 specific stability submission in the NDA is burdensome to
13 industry. This was said over and over again. We had
14 recommended, both in the '98 draft and in the '99 tiered
15 proposal, that for complex dosage forms three batches of
16 site specific stability be submitted.

17 This was viewed as excessive. The term
18 "intrinsically unstable" and "complex dosage form," both
19 of those terms need to be clarified. And I would agree
20 with both of those comments.

21 Over the summer, in two different individual
22 new drug applications, we received from two different

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1 firms alternative proposals to site specific stability.
2 In neither case were these proposals submitted to the
3 public docket.

4 What I am going to talk about here is not
5 proprietary information; however, the submitter of those
6 NDAs and anything connected with them obviously is. The
7 first proposal as an alternative --

8 DR. CHEN: I just want to make a correction.
9 These are not already NDAs. They are pre-NDAs.

10 DR. SEEVERS: Thank you. That's Dr. Chi Wan
11 Chen, who received -- whose chemistry division received
12 this communication from both firms. This was a pre-NDA
13 communication. I apologize for the error.

14 But as in all of the guidance policy, we are
15 open to valid alternatives. If a firm can present an
16 alternative to what we've suggested in the guidance is
17 necessary, we are open to that. And taking advantage of
18 this policy, these two firms presented alternatives.

19 The first proposal was the following. The
20 firm would submit full ICH data on a combination of two
21 primary stability batches made at the pilot site and one
22 batch made at the commercial site, and they asked would

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1 that satisfy our need for site specific stability.

2 The second proposal made the following
3 suggestion: that instead of submitting site specific
4 stability proapproval, the release data on the three
5 validation lots made at the commercial site would be
6 submitted, plus a summary of the validation process;
7 would that be acceptable.

8 We spoke with this firm. And let's go to
9 the next slide. I have something on the bottom of the
10 current slide. This slide spells it out in a better
11 fashion.

12 In each case, we spoke to the firm and said
13 that in those specific instances, the proposal had merit,
14 we would look at it further, but one assumption had to be
15 made.

16 And that's key to the discussion that we're
17 going to have today. That assumption is the following.
18 If we're going to look at any alternative to site
19 specific stability data for new drug applications, the
20 firm must have an adequate primary stability data
21 package.

22 The question is: how do you define this?

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1 Fortunately for us, that work has already been done.
2 Industry, and the Agency, and the USP, and our
3 international partners in Europe and Japan have already
4 agreed on what is an acceptable primary stability data
5 package.

6 That is 12 months on three batches at 25
7 degrees, 60% RH; six months on three batches at 40
8 degrees, 75% RH.

9 I want to emphasize that this assumption
10 underlies any discussion that we have this morning that
11 if those data are available at the time of submission,
12 then alternatives to site specific stability may be
13 workable.

14 Last slide, please.

15 And so the question that the Agency is
16 posing to the subcommittee for discussion today is to
17 discuss the merits of the proposals. The third proposal,
18 which I have not spelled out in great detail, is in the
19 meeting package, is the three tiered proposal from the
20 Agency.

21 So we have three proposals: the site
22 specific stability proposal from March from the Agency,

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1 the proposal to use a combination of pilot and commercial
2 site batches, and the proposal to use release data on
3 validation lots and a summary of the validation process.

4 That being said, I look forward to the
5 discussion today.

6 Thank you.

7 CHAIRMAN BYRN: Okay, I think we can go
8 ahead. Unless there are specific comments or questions
9 for clarification for Bob, I think we can go ahead with
10 Scott's presentation.

11 Any specific questions for Bob?

12 MR. LACHMAN: Bob, are you covering ANDAs in
13 your summary here or just the NDAs?

14 DR. SEEVERS: At this point, my view is that
15 what is currently submitted three months on one batch
16 accelerated for ANDAs represents the primary stability
17 data.

18 MR. LACHMAN: All right.

19 DR. SEEVERS: And as I said, that the
20 primary stability data is essentially nonnegotiable for
21 NDAs, that would stay. In the event that an ANDA
22 submitting firm wished to change its commercial site

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1 before approval, something that can happen but is
2 extremely rare, then one of these alternatives might be
3 useful.

4 MR. LACHMAN: Okay, I just want to get that
5 clarified.

6 CHAIRMAN BYRN: Any other questions for
7 clarification?

8 Okay, Scott.

9 DR. REYNOLDS: Good morning. I'm
10 representing PhRMA with a summary of some issues on this
11 site stability issue.

12 In the first slide here, I've just recapped
13 the proposals that I believe we're here to discuss. What
14 I'd like to do today is briefly recap a few of the issues
15 that we discussed in the March meeting, particularly
16 those that I think are pertinent to a compromise position
17 that PhRMA is proposing to try and address this issue.

18 But, as was discussed just a few minutes
19 ago, the three proposals are the original site stability
20 plan; the second is what I would call a hybrid plan; and
21 the third being the plan with some release data and
22 summary of validation process with the caveat of the full

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1 ICH package to accompany that.

2 And the following slide is just a summary of
3 the issues that we discussed at the March meeting, which
4 -- and that is that the primary issue that we were trying
5 to tackle really was one of ensuring successful
6 technology transfer, and the question was how do we best
7 do that.

8 And what we presented was that this requires
9 several things: a thorough process development
10 experience, evidence that the design and operation of the
11 manufacturing plants conform with GMPs, and a
12 demonstration of process robustness through process
13 validation in the final manufacturing plant at final
14 manufacturing scale.

15 And the other comment, of course, was the
16 one that had been made to the docket by many of the
17 firms, is that the value of site stability just hasn't
18 been demonstrated to provide that assurance, and there's
19 a better tool, and that tool is process validation.

20 In the next several slides, again I want to
21 just emphasize how validation is linked to other
22 activities that go on in the course of drug development.

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1 We discussed that process development is continuum; that
2 this relies heavily on laboratory work, subsequent pilot
3 plant work, and finally work that goes on to take that
4 process out of the manufacturing plant.

5 And during that continuum of process
6 development, the formulation composition is determined,
7 the processing conditions are established, the
8 environmental control conditions that are necessary in
9 the manufacturing plant are established, and this is all
10 done during this process development phase.

11 The key here is, of course, that during that
12 development phase is when this process validation
13 exercise actually begins. That's when the process and
14 equipment conditions are established to ensure that we
15 have robust manufacturing conditions.

16 That's when we begin to identify the
17 critical quality attributes of intermediate products and
18 the final product.

19 It's also during this process validation
20 phase that we begin to identify and define critical
21 process parameters, the in process controls, those that
22 are established for regulatory purposes, those that are

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1 internal to the firm to ensure that they control every
2 step of the process, and these all form the basis of
3 these scale up plans and the process validation exercise.

4
5 Now the last point on here is really the key
6 point, I think, for discussion here, is that it's really
7 the link between that process development and the
8 validation plans as they're reviewed during a proapproval
9 inspection that is most important to understand.

10 It's the development exercise, the GMP
11 aspects of the plant and the validation plans all are
12 reviewed as a single package, and that's where the most
13 benefit can be achieved.

14 So I'll briefly go through the PhRMA
15 comments on the three options and try to end here with a
16 -- what we feel is a significant compromise to try and
17 arrive at something that will provide the best possible
18 tool, but also provide the best vehicle for providing
19 that evidence of successful technology transfer.

20 The first option that was discussed was site
21 specific stability, and our response is the same that we
22 presented in March: site specific stability is not the

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1 best marker; we're not answering the right question with
2 the best possible way; and that the best tools for
3 success include, as I mentioned earlier, thorough process
4 development, adherence to GMPs in the manufacturing
5 plant, and completion of process validation in that
6 manufacturing plant.

7 The second option we have basically the same
8 comments and also again a comment that the commercial
9 burden to the firm really isn't removed with that option.
10 So I think we quickly move to the third option.

11 Now the option is presented. It's to
12 provide release data on three validation lots made at the
13 commercial site, plus a summary of the validation process
14 the firm submitted that full ICH program in their
15 stability package.

16 PhRMA agrees with the release data on three
17 validation lots in the form of a certificate of analysis,
18 and that this would be submitted prior to the PDUFA data.

19
20 I'd like to go to the last slide here and
21 just summarize this.

22 So, in summary, the PhRMA proposal is to

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1 confirm the completion of successful technology transfer
2 with that certificate of analysis of the release data on
3 three successful validation batches, and that would be
4 done prior to the PDUFA date.

5 Most importantly, we would continue to rely
6 on the existing systems of proapproval inspections to
7 ensure that that process development, the GMP stature of
8 the manufacturing plant, and the process validation in
9 that manufacturing plant are all properly reviewed.

10 And this should provide everything that we
11 need to have here. We need to hang our hat on something
12 that says we've got good technology transfer. We've got
13 the certificate of analysis to certify that those
14 validation batches were carried out and here's a piece
15 of data that's easy to get our hands around, the release
16 data on those three validation batches.

17 And we use the existing framework within the
18 Agency that works within the industry as well to make
19 sure that that validation as completed is linked properly
20 with the plans of the plant, the manufacturing status at
21 the plant, and the process development experience at the
22 plant.

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1 And that's done now, and we propose we
2 continue to use that mechanism to review the details,
3 those nitty-gritty details we got into a little bit back
4 in March, to truly review all the details of process
5 validation.

6 So that was the completion of my
7 presentation. I'll be glad to answer any questions.

8 DR. SEEVERS: Scott, I notice a difference
9 between what you were saying makes sense to PhRMA and the
10 third option as I presented it, which is as we received
11 it in the pre-NDA package from one individual firm.

12 DR. REYNOLDS: Right.

13 DR. SEEVERS: And what's missing, of course,
14 is the quote, unquote, "validation summary."

15 DR. REYNOLDS: Correct.

16 DR. SEEVERS: Could you comment on that,
17 please?

18 DR. REYNOLDS: Yeah, I'm sure that -- and
19 different firms can approach this in different ways. The
20 key issue here from the PhRMA perspective is that across
21 the industries that we represent it's -- one, it's not
22 reasonable for every industry to be able to do that.

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1 And secondly, from the PhRMA perspective, we
2 feel that we're much better off relying on the existing
3 framework that already exists from -- within the field to
4 review the details of process validation. We feel that
5 we can provide that one piece of pivotal information in
6 terms of the release data on those validation batches,
7 and that provides a good, simple, streamlined framework
8 to make this happen.

9 Individual firms can certainly come up with
10 embellishments upon that, and that's fine; but as a solid
11 baseline that PhRMA felt comfortable with, this seemed to
12 be the most appropriate way to manage that.

13 DR. SEEVERS: So PhRMA is agreeing with the
14 third option minus the validation summary, but including
15 primary stability data?

16 DR. REYNOLDS: That's correct. I'd say it's
17 actually a little stronger than that. I'd say PhRMA is
18 agreeing with this validation data -- excuse me, with the
19 release data on the validation. And PhRMA emphasizes the
20 fact that the details that would be provided in the
21 summary validation are there to be reviewed as part of
22 the proapproval inspection and as part of the ongoing

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1 interactions with the field.

2 And so I think we're trying to emphasize
3 that the whole package is there and we're trying to make
4 sure that the parts of the package are deployed in the
5 areas where all the skill sets are there and where things
6 work right now.

7 DR. SEEVERS: I want to thank you for the
8 misstatement you just made because it's one I've made
9 before talking about validation data instead of release
10 data on validation lots. In our internal discussions in
11 the Agency, we've had to learn to speak very carefully
12 and slowly because what we're not talking about -- and I
13 want to make this clear to everybody here -- is
14 validation data.

15 That's already being reviewed by the FDA
16 field inspectors and there's no need for the center
17 reviewers to look at those data. We're talking only
18 about the release data, the certificates of analysis.
19 And so you made the same trip that I've done many times,
20 and I think it's important that we all agree and
21 understand that that's what we're talking about. It's
22 the release data.

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1 DR. REYNOLDS: Correct.

2 CHAIRMAN BYRN: Okay, thanks very much,
3 Scott.

4 Any other questions for Scott?

5 MR. LACHMAN: Scott, normally you'd have a
6 validation summary for your three validation batches,
7 isn't that correct? You would summarize the validation
8 data in the summary report.

9 DR. REYNOLDS: That would be -- I'm not
10 quite sure I understand the -- it would be -- certainly
11 there's a detailed validation report assembled by the
12 firm, and that's done at the conclusion of a validation
13 exercise.

14 MR. LACHMAN: Yes, but generally there's an
15 overall summary of the validation? You know, the
16 individual validation data could be cumbersome many
17 batches, many folders, and then there's an overall
18 summary of the data.

19 DR. REYNOLDS: I don't --

20 MR. LACHMAN: Executive summary.

21 DR. REYNOLDS: I mean, like any good report,
22 there's always a summary section. Whether that summary

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1 section includes a -- well, I would say I don't believe
2 that summary section includes a standard assembly of
3 validation data primarily because, as you said, it's a
4 complicated collection of data.

5 And to have a codified mechanism to cull out
6 the critical parts of that just doesn't exist right now.
7 And that's really one of the reasons for being concerned
8 that, in a general sense, across the PhRMA companies,
9 that we could come up with a consistent, codified way of
10 presenting every part of that validation summary.

11 I don't think there exists a consistent
12 mechanism for providing that summary data.

13 MR. LACHMAN: Well, I think you can develop
14 a framework depending on a dosage form whether it's an
15 injectable or an ointment or a solid. You can have a
16 structured summary if you want to do it.

17 DR. REYNOLDS: Perhaps, but I think it's
18 more complicated than that because I think, you know, a
19 good validation exercise which really -- and we talked
20 about this in more detail last March. A good validation
21 exercise that really goes and probes the nuances of the
22 process really builds on all of the work that was done

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1 during development.

2 So I think even within certain dosage forms,
3 you'd find nuances of formulations, composition, process
4 conditions that a firm would perhaps want to probe in
5 their validation exercise which would not be necessarily
6 consistent even across dosage forms.

7 Now, those details are looked over in detail
8 during a proapproval inspection and in subsequent reviews
9 of validation at the site. But they're not necessarily
10 -- my experience has been that even within dosage forms,
11 there's a fair variety of complexity.

12 MR. LACHMAN: No, that's true, but generally
13 I see summary reports with the validation which the field
14 looks at, not the reviewing group. Reviewing group
15 doesn't look at the validation.

16 DR. SEEVERS: I think the question that we
17 as a committee need to address in the sense of the
18 summary is how much value does it add to the review
19 process in the center, not the field, to have the
20 validation summary in addition to the certificates of
21 analysis.

22 And I'd like to hear what the different

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1 members of the committee think about that.

2 CHAIRMAN BYRN: Maybe we go back to Scott.

3 I think what Scott was saying was that the PhRMA position
4 is that this is already reviewed by the field. Is that
5 --

6 DR. REYNOLDS: Yes, that's correct. I think
7 Bob's question is right on the money, what is the value
8 of that. And it depends on what we're trying to find out
9 here. But if what we're trying to identify is did the
10 validation get done and show us an easy to find
11 collection of data that we use to just hang our hat on.

12 And that is here's the release data from our
13 validation lots, here's a certificate of analysis that
14 says these are from three successful validation lots, and
15 the center is assured that the validation was carried
16 out.

17 Now, beyond that, the next step is into a
18 fairly high level of detail, which is the details of the
19 process validation work. To cull that out and -- I think
20 would be difficult to do. And I don't know if that would
21 truly be a value.

22 Since the detail work with the whole context

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1 of the plant and development work is already being
2 reviewed, I don't know if that really adds value to the
3 overall process as long as there is clear assurance that
4 that validation was carried out and some simple and easy
5 to codify collection of data associated with that and the
6 release data seem like the most appropriate collection
7 data to do that.

8 DR. KASUBIK: Yes, I believe, speaking for
9 the generic industry, that they would go along with that
10 in saying that since it's already being done at the
11 district level for the inspections, resubmitting it again
12 really wouldn't generate anything extra for assurance of
13 the process.

14 DR. SEEVERS: So what I hear both of you
15 saying is that the certificates of analysis, by
16 themselves, would serve as tokens, if you will,
17 demonstrating the process validation has been completed
18 successfully; and the actual release values of the
19 specific specifications could be compared to the release
20 values of the pilot data to show the sameness, is that
21 correct?

22 DR. KASUBIK: Yes.

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1 DR. REYNOLDS: Yes, that's how I see it.

2 CHAIRMAN BYRN: One question in the C of
3 A's, of course, is are the -- how are the specifications
4 determined, are the critical specifications on the C of
5 A? Without a summary, the assumption -- that would be
6 assured under this -- under the PhRMA scenario, that
7 would be assured by the field.

8 DR. REYNOLDS: Actually, the release data
9 from the validation lots would be the same criteria that
10 would be applied to the product, and the justification
11 for those would be already have reviewed through the NDA.

12 So this is simply comparing the release data
13 on those validation batches to the release data -- to the
14 release criteria that would be established in the NDA.
15 And any discussion about the justification for that would
16 be -- would have been established as part of the NDA.

17 CHAIRMAN BYRN: Okay.

18 DR. SEEVERS: You need to have a target to
19 aim at, and the release data can help set final
20 specifications if there's any disagreement between the
21 Agency and the firm. As sometimes happens, the Agency
22 will recommend a tighter specification, for example, on

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1 an impurity, and a firm often says wait 'til we make some
2 batches at the commercial site before we tighten this as
3 far as you want it to go.

4 Right now, the specifications are being set
5 based on the pilot data and the pilot stability data.
6 Having these certificates of analysis in hand would be an
7 advantage in setting data based specifications for a
8 drug.

9 So I see that as one advantage of this
10 proposal. Those times when it's difficult to set the
11 final range of a specification, this would provide
12 additional data to the center reviewers to work with the
13 firm to come up with a usable specification.

14 MR. SHEININ: When you're doing the
15 validation studies during technology transfer, are the
16 validation batches consecutive batches or can they be
17 three batches that just happen to meet your acceptance
18 criteria?

19 I think I've heard that. If I can remember
20 correctly, the validation batches have to be three
21 consecutive batches. Is that always true?

22 DR. REYNOLDS: I'm not a complete expert on

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1 the -- every regulatory aspect of the validation work.
2 I know that the guiding principle is that the process has
3 to remain in control through the course of the validation
4 batches. So that if a hurricane hits in between batches
5 two and three and there's a problem -- I'm being
6 facetious.

7 But I think the issue -- the process has to
8 be under control. And so, and clearly running, you know,
9 20 batches and picking out three that work I don't
10 believe would ever be accepted as showing the process is
11 in control.

12 So that's all I could really say. Whether
13 that -- the nuances of what makes things consecutive or
14 not I'm just not in a position to comment on.

15 DR. KASUBIK: I believe, just to comment on
16 that, the intent is to provide three consecutive batches
17 unless there was some reason, you know, a reactor would
18 break down, and then obviously that batch is not
19 considered as one of the consecutive ones.

20 But the intent is to have three in a row.

21 MR. SHEININ: And in general, can you -- I'm
22 sure there's no standard number of batches that you're

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1 making, but I would assume that you just don't go in and
2 move this process into your commercial facility and the
3 first three batches that you make are your validation
4 batches.

5 Is that a correct assumption, that there may
6 be a number of batches that you make before you're able
7 to get three consecutive batches that are meeting all of
8 your acceptance criteria? Or would it be fair for you to
9 say there are times when you just go in and you set up
10 your equipment and you test out your equipment and the
11 first three batches that you actually make meet the
12 criteria?

13 How often do you think that would happen?

14 DR. REYNOLDS: I think there's a mixed
15 practice that exists there partly because of the mixture
16 of complexity of processes. And I think firms sometimes
17 conduct specific trials of particular parts of a process
18 that they think needs to be studied most effectively.

19 I think also some firms may elect, if they
20 think it's overall a complex process, to try and study
21 the entire process in its entirety prior to setting the
22 criteria that they'll use to go into their validation

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1 exercises.

2 But I think it's a mixed practice and it
3 depends a lot on the strength of their own development
4 work, how confident they are in the scale up. And it
5 really is, I think, a mixed practice. But I don't think
6 you could say that it's always at either end of that
7 spectrum.

8 MR. SHEININ: Would it be fair to say then
9 if you did try to prepare a summary of what you did
10 during validation, it would include successful runs as
11 well as what led up to it and maybe unsuccessful runs as
12 well?

13 I mean, those kind of data I think probably
14 would be helpful to the reviewers taking a look at the
15 certificates of analysis given that, if we accept that
16 proposal, there would not be site stability from that
17 site up front.

18 DR. REYNOLDS: My experience in proapproval
19 inspections and discussions with the field is that very
20 topic is discussed in great detail. And any scale up
21 work that was done in the plant, any failures during that
22 scale up exercise are subject to a fair amount of

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1 discussion and scrutiny.

2 So again, I don't -- and so that information
3 is reviewed as part of that whole continuum of
4 development and process validation. That's been my
5 experience with field investigators during a proapproval
6 inspection.

7 So in that forum, I think it is reviewed in
8 quite a bit of detail.

9 DR. SEEVERS: Can I ask the committee a
10 general question? Because we're getting into some
11 interesting details here. There's three different
12 proposals here and we're getting into a great amount of
13 detail about the third.

14 Does the committee feel that the merits of
15 the first two proposals, relative to the third, are such
16 that we should spend more time discussing the third? Is
17 there anything we need to talk about there or should be
18 just dive in? That's -- which we seem to be doing.

19 CHAIRMAN BYRN: Yes, I think this is --
20 maybe we should step back for a minute and look at all
21 three proposals and see if there's discussion on the
22 first two. If there's no further discussion on the first

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1 two, then we can go back and discuss the third proposal.

2 We got into this because we were trying to
3 clarify some points that Scott made and now we're getting
4 into the details. So if there's no objections on the
5 committee, let's step back and let's hear any comments on
6 the first proposal, which is the original three tiered
7 FDA proposal.

8 Are there any comments that anybody would
9 like to make on that proposal? Maybe I should say is
10 there any support for continuing to investigate the
11 merits of that proposal or can we consider that the
12 committee has lost interest in that proposal, if you
13 will?

14 DR. SEEVERS: From an Agency perspective,
15 one thing that I think we would like to see -- as I said
16 in my presentation, a guidance offers suggestions as to
17 the types of data and the timing of data to support new
18 drug applications and changes.

19 I think that if we all agree that PhRMA's
20 proposal is the way to go in that event, there still is
21 going to need to be some alternatives. And what I would
22 like to suggest to the committee is that the Agency

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1 proposal from March may serve as an alternative if we go
2 in that direction.

3 We still feel that that has validity and may
4 make sense in terms of the needs of some specific
5 applications. We feel that the data that we've requested
6 in that proposal would be adequate to support the new
7 site.

8 CHAIRMAN BYRN: Okay, so let's discuss this
9 option which Bob is proposing. Now, one scenario would
10 be to go ahead and rule this out as a primary option.
11 And we have two alternatives. One is to discuss this
12 option now, to assume that this will not be our primary
13 -- a primary alternative, but it would be an alternative
14 in some future guidance.

15 Maybe we can just go ahead and discuss that
16 now. So the question on the table is what does the
17 committee think about the merits of the first proposal
18 being a primary -- an alternative to some other option in
19 a guidance?

20 Maybe I can just say so you're proposing,
21 Bob, that if people -- if one or the other two
22 alternatives were accepted as the main alternative, that

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1 people would still be allowed to follow the original
2 Agency proposal, the three tiered proposal, as an
3 alternative?

4 DR. SEEVERS: That's right, because we'll
5 get more into this with details. For example, not every
6 firm right now is doing validation before approval. And
7 it may not be possible for firms to do validation before
8 approval.

9 For a particular case, the time line
10 involved in the three tiered proposal may be advantageous
11 to them. The Agency is not saying that we no longer
12 believe the data we're requesting there are adequate to
13 support this.

14 So yes, I think it would be a worthwhile
15 alternative.

16 CHAIRMAN BYRN: Discussion.

17 MS. MALIK: Speaking from a HIMA
18 perspective, I think -- and I certainly understand why it
19 might be important to retain that as an alternate
20 mechanism. And I think certainly there will be times
21 when either there's limited data available or there may
22 be some questions about a process validation or a

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1 technology transfer where you may want to reserve that.

2 I think leaving that in as an alternate, I
3 think there were still some comments in terms of
4 categorization, but I think those could be -- those get
5 into the details and perhaps could be worked out, just as
6 some of the details about the third proposal.

7 DR. SEEVERS: And we do have those comments
8 in the public record. And if that is adopted as an
9 alternative, those comments will be taken into account
10 and any revisions that we feel are appropriate would be
11 made.

12 DR. REYNOLDS: Yes, I think in discussions
13 that I've had with the industry group that I represent,
14 I think we could certainly accept the two choices of an
15 alternative. We'd want to have that choice that the firm
16 could make.

17 And I think an additional comment is, with
18 regard to complexity, is there's different ways to look
19 at that, but one way to look at that is to say that
20 actually the complex processes really do require the
21 complex analysis that process validation provides.

22 So there's several ways to look at that

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1 complexity issue.

2 MR. BRADLEY: I think it's in keeping with
3 the concept of a guidance to have alternatives. Guidance
4 is not considered binding on either the Agency or the
5 industry, but it does give guidance, as the name applies.

6 We would certainly not object to having
7 alternatives. What we would object to is having a
8 requirement that we would feel is not suitable. So if
9 there are to be alternatives, then it comes down to a
10 discussion of how to craft those alternatives so that
11 they are acceptable.

12 DR. KASUBIK: Yes, I believe I can go along
13 with Bill in saying that, in a previous comment, that
14 some of the definitions of what constitute moderate and
15 minor certainly need to be clarified and rethought.

16 But the general idea of having that as an
17 alternative would be fine.

18 DR. SEEVERS: I agree with you. And as I
19 said in my presentation, we recognize the fact that we
20 did not provide sufficient information in the '98
21 guidance as to the issue of complexity. We tried to be
22 more specific in the March proposal by putting basically

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1 as many dosage forms as we could on there and saying if
2 your dosage form is this one, this is the route that you
3 would want to take.

4 Let me note for the record, and Kimberly I'm
5 sure will correct me if I'm wrong, while the official
6 comment period is closed, the docket still exists. And
7 if you submit a comment, we will receive it and, given
8 whatever time constraints we have, do our best to take it
9 into account.

10 So if you have not yet commented or, on the
11 basis of today, feel that you need to add a comment to
12 the public record, that option is still open. If you
13 submit a comment, we will receive it and do our best to
14 take it into account as we revise the domestic guidance.

15 Am I correct in that, Kimberly?

16 CHAIRMAN BYRN: Bob, on this -- the three
17 tiered proposal, we still have these questions about the
18 definition of intrinsically unstable and complex dosage
19 forms. Would that be resolved by your committee, those
20 definitions, or how do you propose to handle that?

21 DR. SEEVERS: As I said, we have a more than
22 adequate set of commentary from the public at this point

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1 to address that and knowing what the concerns are and
2 perhaps what changes need to be made. I'm not prepared
3 today to make a specific proposal and say this is the
4 change that we're going to do.

5 We are aware of that and I think can make
6 specific changes. It's very important that this be done
7 properly, but that's very much at a detailed level that
8 I don't think would be appropriate for the subcommittee
9 to spend time on today.

10 MR. LACHMAN: You have some examples here,
11 Bob, don't you, in the draft document here of the ones
12 that are complex or could be problematic? And that's the
13 modified release solid dosage forms, lyophilized
14 products, liposomal formulations.

15 CHAIRMAN BYRN: Which one are you reading
16 from?

17 DR. SEEVERS: That's in the question that we
18 handed out today?

19 MR. LACHMAN: Yes.

20 DR. SEEVERS: Okay.

21 MR. LACHMAN: So that's in here as examples.
22 If there are other ones that have to be added, that has

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1 to be looked at. But there are examples in here.

2 DR. SEEVERS: There are examples in there.
3 What we've heard from industry is if a firm is making
4 modified release products, generally they feel modified
5 release products don't belong in the major concern
6 category.

7 If a firm is making sterile lyophilized
8 powders, they feel that sterile lyophilized powders don't
9 belong in the major category. And each of those examples
10 we've received comments with specific arguments
11 addressing whether or not it should belong in that
12 category.

13 What we need to do is go through those
14 comments, address the scientific issues that are
15 presented there, and make a final determination. The
16 basic idea that we tried to come up with is less based on
17 the manufacturing process, more based on the complexity
18 of the drug product itself, and the liability of the drug
19 product to stability failure.

20 Without going into too much detail, I think
21 we can all agree that most of the stability failures that
22 are seen in practice relate to drug release

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1 characteristics, dissolution, etc., and less to
2 impurities or to potency.

3 That's why dosage forms that are -- where
4 the modified release of the dose is a key characteristic
5 of the dosage form present in our mind a greater concern.

6
7 But again, I think that for each of those
8 dosage forms here, I can point you to specific comments
9 in the docket where firms that are making that dosage
10 form have said "for the following reasons, you can be
11 less concerned about our dosage form." We need to
12 address those.

13 DR. PECK: Steve.

14 In the comments you received, were there
15 comments about the definitions for major, moderate and
16 minor in terms of expansion of those notations?

17 DR. SEEVERS: No, there were not. Let me
18 say that we are working with the group within the -- the
19 stability committee is working with the group within the
20 Agency that is revising the 31470 regulation and the
21 31470 guidance where these concepts are key, and we will
22 be consistent with what comes out of that group.

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1 So at this -- but we will be following them
2 in time. At this point, it's premature to discuss that
3 because that group has to do its work first.

4 DR. PECK: Thank you.

5 CHAIRMAN BYRN: One more question. How
6 about that definition of "intrinsically unstable"; is
7 that being addressed?

8 DR. SEEVERS: That will have to be
9 addressed. I don't have a nice, neat sentence to trod
10 out for you at this point. I think the concept that we
11 are likely to rely on is the stability history, what's
12 been seen in primary and supportive stability data.

13 CHAIRMAN BYRN: Just as a matter of sort of
14 a side bar, the academic experts spent considerable time
15 talking about intrinsically unstable drug substances and
16 issues surrounding those, so that's an issue. While
17 there aren't that many, the ones that are intrinsically
18 unstable are problems.

19 Okay, so that's the first -- we've had
20 discussion on the first proposal. And it seems, if I
21 could summarize, that there would be minimal opposition
22 to that as an alternative based on these discussions that

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1 we've had.

2 Is there anything else anybody would like to
3 say about that?

4 Okay, let's go to the second alternative
5 which we're calling a hybrid, which is a hybrid between
6 the original site specific proposal and the third
7 alternative. Can we have some comment on that to
8 determine whether there is any support for that either as
9 an alternative or as a primary approach to the guidance?

10 Maybe Scott just wants to reiterate. You
11 mentioned that that would not achieve any of the
12 logistical goals, to use Bob's comment. That would not
13 achieve any of the logistical goals of PhRMA, is that
14 correct?

15 DR. REYNOLDS: Yes, I think it carries
16 basically the same burden as the first, and it carries
17 the same liability of not providing the same
18 opportunities for the best tool as the first as well.

19 DR. SEEVERS: I would suggest that it
20 actually has greater liability because, in order to
21 develop adequate stability as a primary stability batch
22 at the commercial site, you would have to move your time

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1 line back a year or more.

2 That being said, my own personal sense is
3 there may be cases where this would be useful. If we
4 leave it out of a recommendation in the guidance, that
5 would not preclude a firm from doing just what the firm
6 who suggested this did, and that is to bring it up on
7 their own.

8 What we would like to avoid is doing
9 everything on a case by case basis, but to provide
10 guidance that's useful to the vast majority of cases.
11 And where a firm has an alternative that may be to their
12 advantage in a specific case, we're always open to
13 discussing that.

14 MR. BRADLEY: I would say that while the
15 guidance should give a comfort level to the industry as
16 to what is acceptable, it shouldn't necessarily preclude
17 something that everyone would consider valid even though
18 most companies would not want to use it.

19 So therefore, it might be easier for the
20 Agency to outline several alternatives that would be
21 acceptable if a company chose to use those over the
22 primary one that's stated in the guidance. So as long as

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1 it's not required -- I think that's been the problem is
2 not whether something was allowed, but whether it would
3 be required.

4 And if it's -- if what is being required is
5 not reasonable or possible by the vast majority of firms,
6 then it would be unacceptable in industry's sight. But
7 that doesn't mean that something else that one company
8 might prefer to use for one reason or another should be
9 excluded.

10 CHAIRMAN BYRN: Are you proposing, Bill,
11 that we -- because one alternative would be that we could
12 remove that and not mention it at all. We could
13 recommend that it not be mentioned in the guidance. But
14 I think you were saying that maybe some sentences that
15 allowed this or indicated that, you know, this is another
16 alternative should be left in the guidance.

17 Is that what you're suggesting?

18 MR. BRADLEY: I'm not recommending one thing
19 or another, but it would seem to me to be easier on the
20 Agency if it were to include alternatives that then it
21 would not have to address on an individual product basis.

22

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1 DR. SEEVERS: I agree with that. My concern
2 is that the guidance not grow unwieldy with covering
3 every alternative that's possible. Just as Kimberly
4 beautifully read the standard conflict of interest
5 statement, there is a standard paragraph that's in the
6 microscopic print in a footnote on the first page of
7 every industry guidance.

8 I can't quote it exactly, but basically it
9 says this places no obligation on the Agency or on
10 industry. The sense of that, apart from the legalese, is
11 that if a firm has another way of supporting what it
12 wants to do, another data set, another way of obtaining
13 the data, the firm is welcome to discuss that with us and
14 we can come to an agreement that, in that particular
15 case, a different approach is acceptable.

16 I would rather not, in revising the
17 stability guidance, come up with what amounts to a
18 Chinese restaurant menu for site specific stability to
19 address the issue we're trying to address of sameness.
20 Two options -- speaking just from myself and the revision
21 process, two options are workable in terms of spelling
22 something out in the guidance.

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1 When we go beyond that, I think it may
2 become unwieldy and less useful to both the Agency and to
3 industry.

4 MR. BRADLEY: I agree with Bob that we
5 wouldn't want to see an unwieldy guidance either, which
6 is why I didn't specifically recommend that this be
7 included.

8 CHAIRMAN BYRN: So maybe the most
9 appropriate response is to leave this with the committee
10 to determine whether -- it sounds like we have this -- if
11 this were presented, it would be a second alternative,
12 not a first alternative, and we can leave it with the
13 committee to determine whether it makes it unwieldy and
14 falls under the standard disclaimer at the start of the
15 guidance.

16 Is that okay with everybody if we just leave
17 it to the committee? Okay, so we're going to leave
18 option two to the committee. Option one is the first
19 alternative. Well, by process of elimination, that means
20 option three would be the primary approach.

21 So let's continue our discussion of option
22 three. As we said, the discussion was continuing along

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1 the lines that first there's a discrepancy between the
2 Agency's proposal of option three and PhRMA, and that
3 discrepancy is whether a validation summary would be
4 provided, and we were discussing the details of that.

5 So I think we can go back to that discussion
6 now.

7 DR. SEEVERS: Let me suggest an alternative
8 to a validation summary that would be something that I
9 think could be readily done without getting into this
10 gray area between the proapproval inspection and the
11 review at the center, and that would be the following:

12 Right now, firms submit executed batch
13 records typically of pilot batches. And at least one,
14 sometimes more, are submitted with a new application and
15 with an ANDA. Could we have the executed batch record of
16 one of the three validation lots along with those three
17 certificates of analysis?

18 That would not be qualitatively different
19 than the executed batch record that's being submitted for
20 the pilot data. It would provide useful information to
21 the reviewer in that he or she would be seeing the batch
22 record of the material produced as it is going to be

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1 produced for commercial sale.

2 DR. KASUBIK: Are you proposing that as
3 instead of or in addition to?

4 DR. SEEVERS: Heavens, instead of. One
5 discussion that we've had with industry over the years is
6 how many batch records are really necessary. And we've
7 seen volumes and volumes of batch records. We do not
8 need all of those. And as we complete work on the
9 technical document, some of those issues will be resolved
10 and they're on paper.

11 But my proposal would be instead of an
12 executed batch record for a pilot batch. It seems to me
13 on the fact of it that that would be more valuable for a
14 reviewer because it's the actual -- right now we're
15 seeing the proposed batch record for commercial.

16 Seeing one executed I think would be
17 valuable, but I would not propose it in addition to; I
18 would propose it as an alternative to.

19 DR. REYNOLDS: I want to make sure I
20 understand. The mechanism by which you feel you see a
21 pilot batch record is through the NDA.

22 DR. SEEVERS: Right now we see it in the

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1 NDA. Typically it's either for a primary stability lot
2 or for a clinical lot. We see at least one, sometimes
3 more, executed batch records. What I'm suggesting is,
4 instead of a validation summary, which, Scott, you're
5 saying gets the review function well into the field
6 inspector's job, something that a reviewer now sees is
7 the executed batch record for a batch made at the pilot
8 plant either clinical or stability.

9 If instead of that we saw the executed batch
10 record for the validation lot, you would not be
11 submitting additional information, but the information
12 that you submit would be connected to the commercial
13 site.

14 DR. REYNOLDS: Yes, I think it might be a
15 little hard to manage the either/or aspect of that
16 because the -- you're trading off the pilot batch record
17 in the NDA versus the validation batch record at some
18 point during the review process.

19 So that might be a difficult way to manage
20 that. And I guess I would also ask -- we should think
21 carefully about what benefit that really provides the
22 reviewer. If the manufacturing process description is in

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1 the NDA, the obligation for the firm is to validate the
2 process using that same manufacturing process.

3 The confirmation of that is done as part of
4 proapproval inspection. So I think we should ask
5 ourselves are we really adding new value by having that
6 there and could we really manage this either/or aspect
7 since we're talking about information coming in by two
8 different mechanisms.

9 DR. SEEVERS: Well, I think it would add
10 value and here's why. In a significant proportion of
11 proapproval inspections of the commercial site, no
12 product has been made as yet when the inspector arrives
13 because the inspection is scheduled as soon as is
14 practical so that it can be completed and any issues that
15 might result in a 483 can be resolved before the goal
16 date.

17 That's beneficial to the Agency and to
18 industry. What that means then is that the actual
19 validation process data that we're saying is not a center
20 review function but a field review function may not be
21 seen until the next GNP inspection, which could be the
22 following year or two years later.

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1 That's the situation now. And that would
2 not change under this proposal. By seeing the executed
3 batch record instead of the one for the pilot batch, the
4 actual validated lot production could be looked at.

5 Again, not as an inspector would look at it,
6 but as a reviewer in the center would look at it.

7 DR. KASUBIK: If this record had to be
8 submitted as part of making the NDA acceptable for
9 review, then this would change the timing considerably.

10 DR. SEEVERS: No, no, we're not talking
11 about submitting it at the time the NDA comes in. It
12 would come in at the same time the certificate of
13 analysis comes in for the validation lot. And that's a
14 topic that we all know we need to get to is timing.

15 We may not want to go there just yet, but --

16 DR. KASUBIK: Okay.

17 DR. SEEVERS: -- I'm suggesting that this
18 would come in at the same time as the certificates of
19 analysis, which would be very much toward the end of the
20 review process.

21 DR. KASUBIK: Okay.

22 CHAIRMAN BYRN: And you're suggesting this

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1 would replace the need for a validation summary? So now
2 what --

3 DR. SEEVERS: Right.

4 CHAIRMAN BYRN: Your proposal would be that
5 the three certificate of analyses would come in along
6 with one executed batch record from one of those
7 certificate of analyses?

8 DR. SEEVERS: That's correct.

9 CHAIRMAN BYRN: And then no summary?

10 DR. SEEVERS: I think we could live with
11 that.

12 DR. PECK: I'm curious as what is being
13 defined as the summary of the validation process. What
14 does it encompass?

15 DR. SEEVERS: I need to comment on that.
16 Remember, this came from a specific firm's proposal. We
17 have talked with that firm and, as Dr. Chen mentioned,
18 that NDA has not yet been submitted. We have not come to
19 a final agreement with that firm.

20 I think Scott's point is that that notion is
21 somewhat amorphous and, if it were to be used, would have
22 to be very carefully defined and limited. So your

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1 question is a good one. It's not one that has been
2 answered yet in our discussions with this individual
3 firm.

4 And I think we would need to work further
5 with industry in general to come to an agreement if we
6 decide that this validation summary is an important part
7 and adds value to the validation lot release data.

8 The reason I suggested the executed batch
9 record -- and I want to give credit to Dr. Chen for the
10 original idea -- is that that's a concrete document that
11 already exists. It could take the place of a document
12 that we're seeing now that industry is submitting at the
13 time of NDA submission.

14 It would add value in the sense of being the
15 actual executed batch record for the commercial site.

16 DR. REYNOLDS: Do you see it as value
17 because it's an additional confirmation that yes, the
18 validation batches were actually made; or do you see it
19 as something that would be scrutinized and reviewed for
20 completeness and whether it was -- provided all the
21 possible -- I'm just trying to understand what the
22 specific intent is to get out of that.

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1 DR. SEEVERS: One thing it will provide is
2 the exact equipment that's used. It will make clear any
3 changes in the manufacturing that have been made in
4 moving from the pilot site to the commercial site,
5 something that is not always present in an NDA submission
6 prior to approval.

7 Now, let me make a general comment here. We
8 will, as an Agency, if we adopt something like option
9 three, have to do a great deal of education both of the
10 center reviewers, of the field personnel, and then an
11 industry training on the guidance.

12 I spent a very productive afternoon last
13 week with our compliance staff discussing this option in
14 preparation for today, because they're concerned as well.

15 What we don't want to have is center reviewers trying to
16 perform functions that are better done by field
17 inspectors.

18 You, as an industry, do not want to be in
19 double jeopardy. So we're in complete agreement here.
20 Now, no matter what we do, there will always be
21 individual errors in judgement. Our commitment would be,
22 one, to provide the appropriate education to our staff;

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1 and two, to follow up on any problems that arise.

2 There is no doubt in my mind that by
3 focusing attention at the center on the validation lots
4 it will create some confusion. We will do our best to
5 avoid that by education. And when problems arise, we
6 will deal with them appropriately.

7 DR. KASUBIK: I presume that the same
8 criteria would then be applied to an ANDA, that the
9 validation record would be substituted for the current
10 batch record that's submitted?

11 DR. SEEVERS: Let me speak to that. This
12 goes back to what Leon asked me before. I think it would
13 be appropriate to say that the current requirement of one
14 batch three month accelerated stability data when an ANDA
15 is submitted represents the primary stability data for
16 the ANDA.

17 If we can agree on that, then that's
18 analogous to the ICH data package for an NDA. That would
19 not change. What would be available is if an ANDA firm
20 wished to change its commercial production site during
21 the review process, this validation lot release data
22 option would be available to them.

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1 My understanding is that that is an unusual
2 occurrence. So I don't think that the stability data for
3 an ANDA, in terms of its submission, would change
4 dramatically.

5 DR. KASUBIK: Let me make sure I understand
6 that then. When an ANDA would get submitted, it would
7 get submitted as it is now --

8 DR. SEEVERS: Correct.

9 DR. KASUBIK: -- and the approval would not
10 depend upon submitting then a validation record later on?

11 DR. SEEVERS: Not unless --

12 DR. KASUBIK: Unless they changed the site
13 from the original.

14 DR. SEEVERS: Right, because generally an
15 ANDA has that one batch made at the proposed commercial
16 site. In those rare instances where the site has
17 changed, this would provide a way of dealing with it.

18 DR. KASUBIK: Okay.

19 MR. LACHMAN: If the site isn't changed,
20 normally the validation batch is made after approval. So
21 it's --

22 DR. KASUBIK: Yes, that's correct.

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1 CHAIRMAN BYRN: Okay, back on this
2 discussion. Now we're talking about substituting the
3 validation summary with a validation batch record on one
4 of the three lots they had the certificate of analysis.

5
6 Are there any other thoughts that anybody
7 would like to express at this time about that concept?

8 DR. REYNOLDS: I think the only comment I
9 want to make is that we need -- from the PhRMA
10 perspective, we view the proposal that we made actually
11 as a significant effort towards compromise. Validation
12 is not a requirement prior to approval.

13 And we're looking for as simple and
14 streamlined a manner to provide evidence that validation
15 has been completed, a tidy document to provide that,
16 provide all of the additional information to support the
17 details of validation were carried out, that the plans
18 for validation were carried out and established in
19 accordance with the development work that was done and
20 the site situation.

21 And we're trying to do that in as simply a
22 way, provide all that information and not provide an

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1 opportunity for confusion to develop, as Bob mentioned,
2 as a result of duplicate review and, you know, potential,
3 you know, different skill sets that people look in at
4 those data.

5 And I think we start to run -- this option
6 of providing the batch record starts to get into that
7 arena. And I would again suggest that we can get the
8 best benefit out of establishing that the validation was
9 completed through that certificate of analysis, and that
10 we really don't have to go to that batch record level,
11 and we don't beg the other issues of potential confusion
12 or potential double jeopardy or potential duplicate
13 review of the information.

14 MR. LACHMAN: Can I ask a question on this?
15 As part of the submission of these batch records for the
16 validation batches or the certification, or C of A for
17 those validation batches, based on that submission,
18 you're certifying that the validation was completed
19 adequately?

20 DR. REYNOLDS: I think that could be done
21 implicitly and it could be done explicitly. I think
22 implicitly it's there. I think it's also possible to

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1 develop an explicit statement to that certificate of
2 analysis that yes, these were three validation batches,
3 and yes, the firm is establishing that the validation was
4 completed.

5 MR. LACHMAN: I would think that would be
6 more useful than a batch record personally.

7 DR. SEEVERS: I proposed the batch record
8 because it seemed like a reasonable alternative to the
9 validation summary. I think that what I'm hearing from
10 the committee members is the certificates of analysis
11 ought to be able to stand by themselves without
12 additional submissions.

13 MR. LACHMAN: With the certification that
14 the validation was completed.

15 CHAIRMAN BYRN: When you say certification,
16 Leon, you're talking about a --

17 MR. LACHMAN: It was successfully completed.

18 CHAIRMAN BYRN: -- a statement that would
19 just say -- a statement would go along with these batch
20 records.

21 MR. LACHMAN: With the three C of A's.

22 CHAIRMAN BYRN: So there would just be a

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1 simple one sentence or two sentence certification, but it
2 would state -- it would state that the validation had
3 been completed successfully.

4 MR. LACHMAN: And then it's the field to
5 verify it, right.

6 CHAIRMAN BYRN: Is that -- are there
7 comments by the committee on that proposal?

8 MR. LACHMAN: I think that doesn't interfere
9 with the field's responsibility and also probably
10 satisfies the reviewer's concerns.

11 DR. SEEVERS: Can I go back, changing the
12 topic just a little bit, to a statement that Scott made
13 a few minutes ago, which I think is a crucial one. Two
14 things.

15 One, you noted that PhRMA has moved
16 considerably on this. And I say that we appreciate that.
17 One concern is the concern of timing. Right now it is my
18 understanding that a significant proportion of firms do
19 their validation at the commercial site post approval.

20 How would that affect this proposal? How
21 would that be workable?

22 DR. REYNOLDS: You're exactly right. And

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1 that is -- that's the burden that the firm is going to
2 carry with this compromise. This makes validation an
3 assumed condition for approval now, and that's going to
4 add burden to the firm to carry out that exercise always
5 before approval rather than being able to manage it right
6 around the approval time.

7 So we're talking about people having to
8 routinely -- or not routinely, but every time shift that
9 exercise to always occur shortly before approval.

10 DR. SEEVERS: Let me suggest how the Agency
11 might handle this issue and then I'd be interested to
12 hear what the committee members think. I think we could
13 handle the availability of these certificates of analysis
14 in a similar way that we currently handle the
15 availability of a final report on the inspection.

16 Which is to say if an inspection has been
17 done, a 483 issued, and the issues are not resolved at
18 the time that we have to take action, we would recommend,
19 if everything else is okay, an approvable action pending
20 resolution of the inspection issues.

21 We could do the same thing saying that we
22 would recommend an approvable action pending availability

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1 of acceptable certificates of analysis on the validation
2 release data.

3 MR. LACHMAN: That would still hold up
4 marketing though.

5 DR. SEEVERS: It would indeed.

6 MR. LACHMAN: Okay.

7 MS. MALIK: If I could comment and maybe ask
8 for some information. I would agree that having to
9 submit process validation in the time frame that PhRMA
10 suggested would, for some product lines, companies, part
11 of the industry, essentially preclude them from that
12 option because yes, they do perform either all or some of
13 that process validation post approval.

14 And some of that is -- a lot of it, in fact,
15 is related to, you know, is it a new drug entity. I
16 mean, even many NDAs are not new drug entities today.
17 How many similar products you're manufacturing, the
18 complexity of the dosage form and the manufacture.

19 If we move towards what you just proposed in
20 terms of the review of that information, what type of
21 timing do you see as reasonable for the review?

22 DR. SEEVERS: Well, remember that it would

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1 not hold up marketing any differently than completing
2 validation holds up marketing now. What we would need to
3 do, if we issue an approvable action -- let's make it
4 very, very simple.

5 Based solely -- not on clinical issues or
6 pharm tox or any other CMC issues. Based solely on the
7 availability of those data, we would want to turn around
8 an approval as promptly as possible when those data
9 become available.

10 The result would be no significant change in
11 the time line from the present.

12 DR. REYNOLDS: Yes, I think you'll hear some
13 other comments about how this would relate to FDAMA in
14 the presentation this afternoon. But the details of how
15 this would be done I think are going to have to be looked
16 at pretty carefully because, you know, FDAMA does not
17 allow for anything but a very, very significant
18 deficiency to CMC section to withhold approval.

19 So I see it being a little -- we're going to
20 have to spend some time looking at the details of how
21 this would be implemented because proapproval -- I mean,
22 sorry -- validation has to be done before the product is

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1 sent out the door.

2 But I'm concerned that we're going to end up

3 --

4 DR. SEEVERS: You make a good point. It
5 might be more appropriate then to put this in as a post
6 approval commitment that those data would be provided
7 prior to marketing. That's one option that's consistent
8 with what you're saying.

9 DR. REYNOLDS: And that's basically the
10 burden that people have right now.

11 DR. SEEVERS: I think the goal would be, in
12 adopting this, to take what works in the current system
13 and provide as minimal a change as possible.

14 MR. SHEININ: I think the whole gist of this
15 alternate proposal that came in from one of the drug
16 companies was a -- is an alternative to what we were
17 suggesting in terms of site specific stability. And the
18 proposal, as I remember it, was that those -- the
19 certificates of analysis and those three batches would be
20 submitted a minimum of three months prior to the due
21 date.

22 Then there was some thought of maybe phasing

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1 that in over a period of time because of schedules that
2 companies have come up with in terms of their marketing
3 plans. So over a three year period, that timing would be
4 moved up from one month before the due date to two months
5 to three months over that period of time to allow capital
6 expenditures and building and things to be done.

7 It seems to me if we were to go to a system
8 where this was a Phase IV commitment, then we're in the
9 same place we are today, but we have no other data to
10 verify that technology transfer has been done because
11 there wouldn't be any site specific stability.

12 So I don't think that's a workable solution
13 to make it a Phase IV commitment. I do think the fact
14 that we're talking about the timing and some of the
15 problems that the timing might create for some companies
16 is a very strong argument on why we want to have more
17 than one proposal in the guidance, if that's the
18 direction we end up with.

19 To limit it to one, yes it's a guidance and
20 companies can always have an alternate approach; but if
21 we have more than one option available, then, depending
22 on the company's marketing plans, they could choose one

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1 over the other and I think that would be a good thing to
2 have.

3 I just -- I would really be strongly against
4 saying that would be a Phase IV commitment. The whole
5 idea was that those data on those three batches would be
6 available prior to the approval of the application. And
7 I agree, we do not want to hold up approval of an
8 application waiting for those data.

9 So it would have to be one approach or the
10 other. And either way, there would have to be something
11 done either prior to approval or depending on the three
12 tiered approach. There's one option in there for the
13 products where there would be a minor -- that in the
14 minor category, that those stability data could come in
15 post approval.

16 DR. REYNOLDS: Again, I think you'll see in
17 the subsequent presentation some -- you know, the
18 suggested kind of roll out of when that could be
19 submitted prior to the PDUFA date. I think the question
20 still is out there about why an approvable letter
21 couldn't be issued and with the understanding that it was
22 contingent upon receipt of these data.

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1 DR. SEEVERS: I think that's what I said, an
2 approvable letter. An approval letter with a Phase IV
3 commitment is what Eric is saying would not work because
4 then there would be no up front -- there would be no data
5 before approval in the normal user fee review time.

6 So part of what we're hearing from PhRMA --
7 and, as you say, I snuck a peek at Toby's notes. What
8 we're hearing is that part of this proposal would
9 represent a phased in implementation in terms of the
10 timing of the submission, but it would always be before
11 the goal date.

12 And if the data are not available before the
13 goal date -- and we recognize that schedules change,
14 things happen -- then what I understand Eric to be saying
15 is we would not be able to recommend, from a CMC point of
16 view, straight approval, but rather an approvable pending
17 submission of those data.

18 Now, one of the things that we need to say
19 is right now, if you have an approvable action for CMC or
20 anything else and you submit the data to be a complete
21 response, there is, according to FDAMA, a certain period
22 of time in which the Agency must then act on that

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1 submission.

2 If the only thing you're submitting are
3 those three certificates of analysis, it would be
4 unlikely that we will take that full amount of time to
5 respond. I don't know that we need to provide a separate
6 commitment and schedule because I don't think this is
7 going to happen very often that the only issue would be
8 the availability of those data.

9 However, if it is, we ought to be able to
10 respond very promptly so as not to delay marketing as
11 soon as those data are available. In practice, however,
12 there will be clinical questions, there will be pharm tox
13 questions, probably there will be other CMC questions to
14 be addressed that result in an approvable action rather
15 than a straight approval.

16 MR. SHEININ: I want to clarify what I said.
17 I think if the only thing standing between approval of an
18 application is the data on those three certificates of
19 analysis, I don't think we could make that an
20 approvability issue.

21 And I think that's the fallacy here, that
22 either those data have to come in prior to the due date

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1 or we have to have the other alternative as an approach.
2 I don't think it would be workable to hold up approval if
3 that was the only issue.

4 And I agree with Bob. Most of the time
5 there will be more issues than that. But as we move
6 further into FDAMA too, I think the tendency is to try to
7 resolve as many of the issues as possible prior to the
8 initial due date so that the initial action would be an
9 approval.

10 And I believe the data showed from last year
11 that somewhere in the order of 50% of the NDAs were being
12 approved on the first cycle. You know, I could sense
13 that I don't think the Agency would look very favorably
14 on holding up approval only for those certificates of
15 analysis.

16 And I don't want to speak for industry, but
17 I can almost guarantee that if it was one of your
18 companies and the only thing standing between you and
19 approval were those three certificates of analysis,
20 there would be a very loud squawk that could be heard
21 across the country.

22 DR. SEEVERS: All the way to Capitol Hill.

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1 MR. SHEININ: So I don't think that's a
2 workable solution.

3 DR. SEEVERS: So what you're saying, Eric,
4 is that there has to be an absolutely firm commitment to
5 provide those data in a timely fashion. And that's going
6 to be a problem because not every firm is going to meet
7 that commitment.

8 MR. SHEININ: That's why we have -- you
9 would have an alternative program in the guidance and
10 that would fall back to the three tiered proposal.

11 DR. SEEVERS: So we're saying do one or the
12 other, but don't do one and then not get the data to us
13 on time?

14 MR. SHEININ: That's right.

15 CHAIRMAN BYRN: Maybe this -- we're
16 scheduled for a break at 10:15. Why don't we take a
17 break right now and reassemble at 10:30. It seems that
18 we have two open questions that we're discussing or we
19 need to work on a little bit more, and that is the
20 validation -- the question of the validation summary, and
21 then we probably need to discuss this timing issue in a
22 little bit more detail.

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1 So let's reassemble at 10:30.

2 (Whereupon, the foregoing matter went off
3 the record at 10:10 a.m. and went back on
4 the record at 10:31 a.m.)

5 CHAIRMAN BYRN: We'll start in about two
6 minutes.

7 Okay, we've decided to move ahead with the
8 open public hearing. The reason for this is that these
9 timing issues that we were discussing prior to the break
10 are intimately related to some of the presentations in
11 the open public hearing, so we felt it would be most
12 appropriate to go ahead and have those issues addressed
13 by the public, and then the committee could continue
14 discussion.

15 The order of the open public hearing is Tony
16 Amann from Eon Labs will speak first, then Toby Massa,
17 and then we will open it up to you all. And any of you
18 that would like to make a presentation would be welcome.

19 So we'll begin with Tony.

20 DR. AMANN: Okay, thank you, Steve.

21 I'm speaking on behalf of the NAPM. I am
22 the chairman of the NAPM Technical Committee, and the

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1 comments will result as a joint of the generic -- at
2 least from the generic, one of the generic associations.

3 Next slide, please.

4 I think the overall principle, as we've
5 already mentioned this morning, one thing is that NAPM is
6 not challenging the requirement of three full validated
7 production batches at production site.

8 However, because of the situation with
9 generics and because there is really no target date set
10 of when we have approval, basically we want to have the
11 little caveat with our requirement be prior to marketing
12 rather than prior to the approval.

13 Next slide, please.

14 There were some comments, at least some
15 proposals, that came out and I'd like to make a couple of
16 comments on those proposals. The comment one was that
17 there's a major requirement for modified release and
18 transdermal patches.

19 And again, they require stability studies of
20 three batches.

21 Next slide, please.

22 I think again -- and we've talked about it

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1 previously, at least for generics, is that there should
2 be a consideration to be given for the body of data
3 available at the same time that a certain amount of SUPAC
4 change are allowed, which actually can be done prior to
5 approval as well, and some parts are already being used
6 right now.

7 And the other one at the end is there's
8 really no evidence that modified release and transdermal
9 patches behave any different from the simple dosage
10 forms. At least at the last advisory committee meeting,
11 when Dr. Seevers pointed out quite a few of the failures
12 when we reviewed those things, we pretty well felt that
13 those failures were random event as it relates to site,
14 but were more involved with issues that would have
15 occurred even if they would have been done at the same
16 site.

17 Next slide, please.

18 What the NAPM recommends, at least for the
19 modified and transdermal, is that the stability studies
20 on one batch would be sufficient or should be sufficient
21 if sufficient primary data is available. Again, at the
22 time that the project is approved, we're talking about

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1 for transdermal patches 20, 25,000 units versus 100,000
2 for tablets.

3 And our contention is that it's probably
4 more viable and certainly more meaningful to have full
5 production batches of three, four hundred thousand, maybe
6 a million patches, as well as a million or plus tablets.

7 And certainly if there's no body of
8 information available, then certainly one can review
9 again whether or not the three data or three lots is
10 sufficient. And certainly some of these, one or maybe
11 two of those batches, could be laboratory scale up
12 batches.

13 Next slide, please.

14 A common one again was that the
15 consideration of -- at least for generics again -- that
16 the metered dose inhalers in dry powder inhalers should be
17 major changes and would require again three stability
18 batches even prior to submission.

19 And next slide, please.

20 The comment we have here is that basically
21 with all those, the device really controls the particle
22 size, spray pattern, amount delivered; that the

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1 formulation in itself or for these metered dose and dry
2 powder inhalers is really a minimal insofar as what is
3 being done really at the site.

4 Therefore, it is questionable whether or not
5 there really needs to be three batches to be done when
6 you have a site change rather than to have one.

7 Next slide, please.

8 The third comment really comes again.
9 Again, I think it really is a point where it comes to
10 about the submission of stability data. There was one
11 proposal being made about having it midpoint in review
12 cycle.

13 Well, with ANDAs, we don't really know when
14 the midpoint is. And if sometime doing the time data
15 review process being done, how is it going to be handled?
16 Certainly there's no issue when you have to do it with
17 the approval with initial submission.

18 Certainly there's no issue when you do it
19 after the review cycle is completed. But during there,
20 there's a couple of things that really is sort of
21 concerning to us.

22 Next slide, please.

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1 And that is really that when you do have a
2 submission, with a submission, the first response from
3 the FDA, would that -- if we do submit it with a first
4 response or any response, are you going to go back again
5 to the beginning.

6 Because, at this point, certainly any kind
7 of stability information would be considered a major
8 document to be submitted during a review. And in this
9 case, in most cases, we're going to wind up being at
10 beginning again and lose all of our sight.

11 That's really not acceptable from a generic
12 point of view. We don't want to do that. Then the other
13 case is this first response minor? Would that be
14 considered midpoint? Doing a major, certainly you can
15 submit things because a major amendment is going to put
16 you back more or less than you would release anyway, so
17 therefore submitting that takes time.

18 But again, it's really not an ideal
19 situation, so we really don't recommend to have major
20 amount of data to be submitted during a review cycle
21 because it will kick us back again. It will affect our
22 approval, and that's not what we're trying to do.

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1 Last slide, please.

2 Really what we come down to is again that
3 the support -- and this is really sort of in concurrence
4 with everything I've heard this morning -- is we
5 certainly have the same recommendation that the statement
6 about the release data on three validation lots made at
7 the commercial site plus a summary of the validation
8 process, if the firm has submitted the recommended
9 primary stability data required for ANDAs.

10 That certainly is not unusual because those
11 things are being done right now. We don't want to get in
12 double jeopardy, as Dr. Seevers pointed out this morning,
13 that we will have this information at both the district
14 reviews and then we have the Agency -- CDER review it as
15 well.

16 That's going to cause some conflicts. But
17 the information is there. Validation batches are being
18 done. And we have -- the contention is that based upon
19 everything that we're doing, we are validating the
20 process at the manufacturing site prior to manufacturing.

21 And I think I want to hit the -- prior to
22 marketing. And I want to point it out because there is

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1 some major differences in how the submissions are being
2 handled and NDAs and ANDAs.

3 Thank you.

4 CHAIRMAN BYRN: Are there any points of
5 clarification for Tony, any questions, clarification
6 questions?

7 DR. SEEVERS: I just want to point out that
8 Dr. Amann's comments are reflected in the public record
9 already, and these are exactly what I was referring to
10 before when I said that we want to take these comments
11 into consideration as we provide a revision of the site
12 specific stability option for the final guidance.

13 The key point I just want to clarify that
14 the generic industry is concerned about is that we had
15 proposed that three batches would be necessary up front
16 with accelerated stability rather than one for certain
17 dosage forms, the ones that you outlined in your
18 presentation, and that is your key concern.

19 Is that correct?

20 DR. AMANN: Yes, that's one of the key
21 concerns, yes.

22 DR. SEEVERS: Okay. Would you agree that

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1 the data submitted in an ANDA, currently one batch, three
2 months accelerated for all dosage forms, serves as the
3 primary stability data for that drug?

4 DR. AMANN: Yes, I would.

5 DR. SEEVERS: Okay.

6 CHAIRMAN BYRN: Any other questions?

7 Okay, thanks, Dr. Amann.

8 MR. SHEININ: I have a couple of questions.
9 One, in your -- on your slide with the NAPM
10 recommendation where you said stability studies on three
11 batches, if insufficient primary data are not available
12 would be a moderate change, you didn't mention this, but
13 it's on your slide that, of the three batches then, two
14 could be lab scale in your opinion and only one would
15 have to be pilot scale.

16 Is that what you're saying?

17 DR. AMANN: Yes, one would be the regular
18 normal one-tenth batch or 100,000 plus.

19 MR. SHEININ: And the other two would be lab
20 scale --

21 DR. AMANN: Yes.

22 MR. SHEININ: -- for an ANDA?

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1 DR. AMANN: Yes.

2 MR. SHEININ: Okay. And from your
3 conclusion, what you're saying -- I want to get clear in
4 my mind -- is that if you went with your recommendation
5 that you would have release data on the three validation
6 batches, from your perspective this would come in after
7 approval?

8 DR. AMANN: There's two things. The answer
9 is it could be after or before. There's two things.
10 Approvals for ANDAs sometimes occurs a year or so prior
11 to the market exclusivity. So we don't need to want to
12 make the batches before then because at that time that
13 the market exclusivity expires and we can go on the
14 market, we basically have to throw the three batches away
15 because we don't have enough expiration dating.

16 So this is why we're talking about the point
17 prior to marketing, which is really a requirement now.

18 MR. SHEININ: Those are called tentative
19 approvals, I think. Is that what they call them?

20 DR. AMANN: Yes.

21 MR. SHEININ: Okay. And if it was an
22 approval where there is no question about -- the patent

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1 is expiring now and you're able to market the day it's
2 approved, how would that fall into that situation?

3 DR. AMANN: If we would know exactly when we
4 would get the approval, then that would be certainly a
5 way that we can organize it so it can be done prior. But
6 we -- at this point, at least at our firm, we have a very
7 difficult time anticipating when we get the final
8 approval.

9 DR. SEEVERS: I have a suggestion for
10 knowing when you get the final approval. If you agree to
11 user fees, then --

12 (Laughter.)

13 DR. AMANN: No comment.

14 CHAIRMAN BYRN: Other questions for Dr.
15 Amann?

16 Okay, thanks very much, Tony.

17 Okay, our next speaker will be Dr. Toby
18 Massa from Eli Lilly speaking with PhRMA comments. And
19 as I said, many of these comments will be related to the
20 timing issues that we were discussing.

21 DR. MASSA: Good morning. I'm Toby Massa.
22 I'm Director of Regulatory Affairs at Eli Lilly, and I am

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1 chairing the working group at PhRMA on site specific
2 stability and I'm addressing my comments today as a PhRMA
3 rep.

4 PhRMA has commented numerous times in the
5 recent past, and these are just some of the interactions
6 we've had with FDA on the issue of site specific
7 stability. Obviously we've been very involved and have
8 commented quite frequently.

9 In the past, we've made comments to the 1987
10 guidance, as well as the draft guidance from '98 and the
11 revised guidance in '99. And I'd like to review some of
12 the comments that we've made. And some of these are kind
13 of rehash from the March 31st meeting, but I think it's
14 important for the committee to hear them again.

15 In the 1987 guidance, there is no explicit
16 requirement for site specific stability for the drug
17 substance. As a matter of fact, that guidance says that
18 the stability of the drug substance is to be demonstrated
19 once per method of manufacture. And there is nothing in
20 there that refers to site changes or scale up.

21 Bob and I have debated quite a lot on the
22 second issue as to whether or not there is a product

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1 requirement. And even if we concede on the fact that
2 there is a product requirement, we feel that that's
3 superseded by ICH Q1A which FDA signed and published in
4 1994.

5 And that brings us to comments on the '98
6 document. We definitely do feel that the ICH document
7 does make a statement regarding site of manufacture. The
8 issue and debate revolves around the comment on pilot
9 scale versus pilot site.

10 But clearly the ICH document does say that
11 the batches should be representative of commercial, they
12 can be made at pilot scale. We've always interpreted
13 that meaning pilot site. But it also goes on to say that
14 if production batches are not included in the initial
15 application, that the applicant is to make a commitment
16 to put the first production batches into the commercial
17 stability program.

18 And in the ICH Q1 revisions, there is a
19 definition being proposed of what a production batch is.
20 And a production batch specifically is being defined as
21 made at the commercial site with commercial equipment at
22 commercial scale.

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1 I think I have that right. Now, to our way
2 of thinking, it may be intuitive, but why would ICH have
3 those comments in there if they did not feel site
4 specific stability was not a requirement? Also in the
5 '98 draft we kept asking for what is the question we're
6 trying to answer with site specific stability.

7 It did not become clear to us until the
8 March 31st meeting when FDA presented their example of
9 issues that they felt were related to site stability
10 issues or site stability factors. And a group of us in
11 industry looked at these and we felt that in nine out of
12 the ten cases, and maybe ten out of the ten cases, that
13 these issues are really more related to validation and
14 qualification rather than stability.

15 Next one, please.

16 Based on that and some discussions that have
17 been held since the March 31st meeting, we've put
18 together a compromised position, and a lot of this has
19 been discussed earlier, and that consists of certificates
20 of analysis for the three validation lots, submission to
21 the NDA three months prior to the PDUFA action letter
22 date with the three year phase in, and that addresses

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1 some of the issues that were mentioned before about some
2 companies not doing validation as part of the proapproval
3 requirement.

4 And we felt that this would be an adequate
5 way of getting those companies adequate time to modify
6 their plans to come up to the three month submission
7 date. The validation batches, since more than likely
8 they are going to end up being the first three commercial
9 lots, would go up onto a stability program, and those
10 data would be submitted in the annual report as per
11 current practice.

12 We do not feel that validation date, nor
13 summaries of the validation, should be submitted. Now,
14 our compromise we feel better addresses FDA concerns
15 because it addresses the issue of validation and has the
16 process been properly transferred.

17 And we've talked a lot about that this
18 morning already. I think the issue of should validation
19 data or summaries be submitted is addressed by the second
20 bullet. We have a system in place right now in which the
21 field addresses GMP issues and validation issues.

22 And this is consistent with the 1994 letter

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1 that Janet Woodcock and Ron Chesemore sent to industry
2 sponsors in which the responsibilities between the field
3 and the center were delineated.

4 And with regard to validation, with the
5 exception of sterile process validation, which is the
6 responsibility of the microbiology group at the center,
7 all validation issues were assigned to the field.

8 And there's a logical reason, as Scott
9 mentioned, for that. And that validation is not just
10 looking at the three validation lots. It's looking at
11 the continuum of development through scale up and
12 validation at the site.

13 So we feel very strongly that that's the
14 place where validation ought to be looked at, including
15 validation summaries, because that's where the primary
16 responsibility lies. If we do that, we avoid any
17 potential for disagreements between the center and the
18 field on interpretation of validation data, adequacy of
19 validation.

20 The field are the ones who are charged to do
21 that, and we think it ought to stay that way. And we do
22 feel that this does represent a true compromise.

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1 One of the things that we were asked to do
2 in preparation for this meeting is address the issue of
3 sameness. And I think what we're proposing is consistent
4 with something else that was in FDAMA, Section 116, which
5 dealt with manufacturing changes.

6 What we're talking about here is a site
7 change. It may or may not be associated with scale up.
8 Most times it is. But basically what we're talking about
9 here is a manufacturing change. In Section 116, FDA said
10 that a major change -- or a change would not be
11 considered a major change if there were no changes to
12 specs or formulation.

13 It also said that any manufacturing change
14 had to be done in a GMP environment and that the process,
15 whatever it was, had to be validated. So we think that
16 if that's good enough for demonstrating sameness with
17 manufacturing changes, it ought to apply here in going
18 from a pilot plant to the commercial site.

19 Also, as we've discussed numerous times,
20 this relies on validation as the indicator of process
21 transfer. I think it really needs to be driven home that
22 this really is a compromise for industry. For those of

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1 you who may not be familiar with FDAMA Section 124 or the
2 Senate report that accompanies it, these are comments
3 that come from the Senate report.

4 And I think it's important to look at what
5 that says, that the FDA can review and approve new drugs
6 and biologics on the basis of pilot and small scale
7 manufacturing information; that the company can be
8 permitted to scale up to a large facility after the
9 product is approved; and it is not the intention that the
10 pilot plant is what's approved here.

11 Scale up can be done on the basis of process
12 validation. And the key thing is that only in very rare
13 cases should this information be required as a condition
14 of approval. Now, in the interest of compromise, because
15 we know that the issue of site specific stability has
16 been a very contentious issue, we are foregoing this.

17 De facto, validation is going to be a
18 condition of approval. So this truly is a large step for
19 certainly PhRMA to take because we fought very hard to
20 get this into FDAMA. So we really do feel that this
21 represents true compromise.

22 We also feel that by virtue of the fact that

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1 these batches will go on to stability, that FDA will get
2 to see site specific stability, albeit it will be part of
3 the annual report. FDA also gets to see that validation
4 is completed and now what will be in all cases prior to
5 approval.

6 Now, there's one thing I want to make sure
7 that everybody understands what we're talking about when
8 we talk about -- you can turn the slides off. Thank
9 you.

10 We keep talking about three validation
11 batches and three certificates of analysis. And now
12 we're talking about possibly submitting one batch record
13 from that validation. The reality is we're talking many
14 batches here.

15 Because in most cases, you're talking
16 multiple dose strengths, multiple package presentations.
17 In some cases, you're talking about multiple sites. So
18 I want to emphasize this primarily to the FDA
19 representatives because what you're asking for is to get
20 this data -- now we're talking about a phase in over
21 time.

22 The certificates of analysis and

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1 certification that the validation is completed we think
2 is something that can be reviewed very quickly and should
3 not impact on issuing of the ultimate letter in concert
4 with the PDUFA action letter date.

5 While we're not necessarily opposed to
6 submitting a batch record, because a batch record is part
7 of the NDA whether or not it's submitted, we don't have
8 a problem with that. The concern I would have is the
9 review of those batch records and is that going to be
10 done in a timely fashion that will allow any issues to be
11 discussed and hashed out before the action letter date.

12 And obviously it takes time for an action
13 letter to circulate through the Agency for signatures, so
14 we really don't have three months. In reality, we
15 probably only have a month and a half or two months in
16 order for that process to occur.

17 So if we're talking multiple batch records
18 here, we need to make sure that that's what we really
19 want to do, and what's the value-added of that going to
20 be when validation batches will be looked at or can be
21 looked at by the field.

22 That's some of my comments and I'd be happy

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1 to answer questions.

2 CHAIRMAN BYRN: Questions for Toby?

3 MR. SHEININ: I have more -- just some basic
4 comments and questions. I think Toby is correct in
5 saying PhRMA is coming a long way from your previous
6 position and this does represent a true compromise.

7 I think the same thing can be said about the
8 FDA position. And I hope everybody recognizes that also,
9 that we are coming a long way from our previous position
10 and trying to compromise to get to a point that both the
11 regulators and the industry will be comfortable with what
12 we have and FDA will still be fulfilling our mission of
13 protecting the public health.

14 I don't want to debate some of the things
15 you said, Toby. You know I don't agree with everything
16 you said and you don't agree with everything that we've
17 said, and I don't think this is the place to do that
18 since we're moving towards compromise.

19 I did want to bring up one thing though,
20 that I think at some point we may have to have a group
21 that will try to standardize on what should be in a
22 certificate of analysis. Those of you who worked for one

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1 company your whole career, you probably see one type of
2 certificate of analysis.

3 If you change companies or if you ever have
4 the opportunity to work for the Agency, you see
5 certificates of analysis that range all over the board.
6 Some give a lot of information, some give almost no
7 information.

8 And one of the areas that we would like to
9 see in the certificate of analysis is actual numerical
10 values. So, for example, if you're testing for the
11 presence of an impurity or several impurities and your
12 acceptance criteria say less than .2% of this impurity or
13 less than 1% of total impurities, we would like to see
14 in a certificate of analysis actual values for those
15 impurities and not just have the COA say pass.

16 And I think that's something that we need to
17 get across to all the industry, that the certificate of
18 analysis has to have some value if it's going to
19 supersede our desire to see the site specific stability
20 data.

21 DR. MASSA: One comment I do want to make,
22 Eric. And it's true we don't always agree, but I think

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1 if we look at how this process has gone where there has
2 been open dialogue and a good exchange of information,
3 and if we also look at the BACPAC 1 process, we think
4 those are really two good examples of how all guidance
5 ought to be handled where there is open dialogue rather
6 than trying to, you know, get a guidance out there by a
7 certain time for whatever reason.

8 And I think it's important that we have
9 these discussions before we get to even the draft
10 guidance being out there, that there be -- as in the case
11 of BACPAC. Because I think it does result in a better
12 process and certainly a better guidance that, while we
13 may not be totally in agreement on the guidance, it does
14 get industry and FDA a lot closer to where we end up.

15 DR. SEEVERS: I'd like to comment, Toby, on
16 your point, which I think is a very important one, that
17 we have this magic number of three C of A's in our mind.
18 But in reality, there will be many different packaging
19 presentations, different strengths, etc.

20 I think that what would need to be done is,
21 during the pre-NDA meeting, we would have to come to an
22 agreement with the firm on which dosage form -- which

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1 packaging presentations, which strengths and so forth
2 would need to have the actual C of A's submitted --

3 DR. MASSA: Yeah, we'd agree with that.

4 DR. SEEVERS: -- rather than come to the end
5 and have a reviewer say, "But what about the HTPPE bottle
6 intermediate size?"

7 DR. MASSA: Yes, we'd agree with that. That
8 ought to be a discussion we have at end of Phase II when
9 we talk about what the plans are to get to the actual
10 NDA. I think that's something that absolutely ought to
11 be included there.

12 I think that's the right place for it.

13 DR. SEEVERS: But I think that the sort of
14 bracketing principles that we've proposed in the draft
15 guidance may have applicability here.

16 DR. MASSA: Yes, we wouldn't argue with
17 that.

18 CHAIRMAN BYRN: Any other questions?

19 Okay, thanks very much, Toby.

20 DR. MASSA: Thank you.

21 CHAIRMAN BYRN: Okay, are there comments
22 from the floor? Would anybody like to make a comment

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1 from the floor?

2 Bob Juerssi.

3 Bob, if you'd just come to one of the
4 microphones. Here's one on this side and also on this
5 side.

6 DR. JUERSSI: I'd like to point out that the
7 requirement, if it goes into effect of three validation
8 batch -- the validation being done before approval, is
9 going to have a rather large impact in the generic area
10 even though it's only limited to where a firm
11 manufactures the commercial batches at a different site
12 than the bio or test batch.

13 And that's because there's a lot of virtual
14 companies in the generic business. Not every generic
15 company manufactures or has a manufacturing facility. So
16 they may have a bio batch made here and a commercial
17 product made here for several reasons.

18 This outfit may not be able to make the size
19 batch that's needed commercially, etc. Now, this is
20 going to have an impact on exclusivity because it's going
21 to affect the date of approval. And that's big. The
22 Agency just went to a lot of trouble to talk about some

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1 of the excesses that occur with exclusivity.

2 Okay, they've put out a notice, a *Federal*
3 *Register* notice, that it's open for comment yet. So I
4 think that's something this group has to consider, the
5 impact this is going to have on the generic industry,
6 because most generic validation is done after approval.

7 Some is done before. It depends on how long
8 you have to wait for approval.

9 The other thing I'd like to point out or I'd
10 like to mention, that I think I heard the following this
11 morning: that if you took the option of sending in the
12 three C of A's but didn't make it in in time, say three
13 months before the PDUFA date, or you didn't make it in at
14 all, it would not hold up approval.

15 I thought that's what I heard Eric Sheinin
16 say. If that's true, who would take the other option?

17 MR. SHEININ: That's a very good point, Bob.
18 And I guess partly what we would be relying on is a
19 commitment made by a firm, and we would expect that firm
20 to live up to that commitment. And what you're proposing
21 is that a firm would make a commitment and then not honor
22 it.

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1 And that does happen. I would hate to think
2 that that would be the norm for the pharmaceutical
3 industry. There are perhaps other things that could be
4 used to try to help a company meet their commitments such
5 as what would your expiration dating period be if you
6 didn't meet the commitment as opposed to if you did meet
7 it.

8 I don't know. We would have to discuss
9 internally, I think, some other options that we might
10 have. But my feeling is the pharmaceutical industry is
11 an ethical industry. And if a company makes a
12 commitment, I would expect them to live up to it.

13 And as I said, I hate to think of where
14 we're going if companies knowingly say we're going to do
15 this and have no intention of doing it. I think we would
16 take the pharmaceutical industry back probably 200 years.

17 And I hope that's not what you're suggesting
18 will happen.

19 DR. JUERSSI: We would only take them back
20 11 or 12 years to the generic drug scandal, Eric, okay?
21 We don't have to go back 200 years.

22 Hey, the other point is that some companies

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1 may make an honest commitment to meet this, but not meet
2 it. Maybe they can't make it by that time.

3 DR. SEEVERS: Let me suggest that what we
4 would have to do is look for a pattern of abuses. If a
5 certain firm makes a commitment and, because of
6 circumstances beyond their control, can't meet it one
7 time, that can be dealt with as an individual case.

8 If the same firm makes a commitment and
9 repeatedly does not honor its commitments, that, I think,
10 would be a different situation and would have to be dealt
11 with appropriately.

12 CHAIRMAN BYRN: Okay, any other questions?
13 Any other comments from the floor?

14 Colin.

15 MR. GARDNER: Colin Gardner from Merck. I
16 think I can give a little bit of perspective on this,
17 Bob, give some historical perspective earlier in sort of
18 Toby and his presentation.

19 But this really takes us back about three
20 years when we first learned of the FDA's belief that we
21 have to provide site stability and we felt we were the
22 only lone voice out there talking to the Agency about

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1 site stability.

2 So I really want to commend everyone who has
3 worked on the industry side. Not only the PhRMA side,
4 but also the other trade organizations on the FDA on
5 really coming to grips with this whole issue and looking
6 at it in a scientifically sound manner, which I think has
7 been the right way to go.

8 It's taken us three years to get there, but
9 I really think we're very close to achieving something
10 that is workable and I want to thank everybody involved.

11 I would just encourage my colleagues in
12 industry to recognize that the FDA has, in fact, made
13 significant compromise, as well as PhRMA making
14 significant compromise, and that we are so close now that
15 we shouldn't try to throw up a number of hurdles into the
16 way of achieving the recognition of what I think is a
17 sound way to move forward here.

18 Just a very brief comment on what Toby
19 mentioned about the validation batches. He said there
20 might be multiple strengths and multiple packages. The
21 package doesn't really enter into this because these are
22 initial release data.

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1 So regardless of the package you're going to
2 put it into, it's the release data. So really only it's
3 the multiple strengths that we have to address with
4 respect to the C of A's.

5 The question has been asked about whether or
6 not the C of A is sufficient for the FDA to really
7 recognize that we've done the validation batches, and I
8 think Scott spoke to that in the sense that we can
9 include a statement that the validation batches have, in
10 fact, been completed and these are the data representing
11 those batches.

12 If we really feel that we have to go beyond
13 that and have some additional information provided to the
14 Agency, I think I'd prefer to go with the summary of the
15 validation batches rather than the individual batch
16 record, and I think Pat's going to speak to this in a
17 moment.

18 But I think the individual batch record
19 speaks to one particular batch. And as Toby also
20 indicated, although you make three validation batches,
21 you have, if you're going to launch in a timely way, you
22 have made probably 20 or 30 batches by the time you're

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1 ready to launch.

2 So there would be many, many batch records
3 available. All of those batch records will, of course,
4 have minor deviations between them because there's a
5 range for all the parameters to be made. So submitting
6 one batch record I think does put us in double jeopardy
7 in terms of saying this is what would be looked at
8 historically as the perfect batch when, in fact, it's
9 just one of many batches.

10 Whereas, putting -- submitting something of
11 a summary which would indicate the critical process
12 parameters and the critical quality attributes with the
13 range of acceptability as a summary of how the validation
14 batch was constructed and relating that back, as Scott
15 indicated, to the entire development cycle is a continuum
16 starting off from the early stages coming up through the
17 bio batch where you actually set many of these parameters
18 and then subsequently to the validation batches.

19 There is that historical perspective to put
20 in place. And looking at those quality attributes and
21 control parameters, I think -- and their range would be
22 one appropriate way in providing one single batch record

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1 to the Agency.

2 So again, I just want to thank everybody
3 who's been involved in this process and I hope that we
4 can come to an agreement today so that we can all move
5 forward.

6 Thank you.

7 CHAIRMAN BYRN: Any questions for Colin?

8 MS. TWAY: I'm Pat Tway, also from Merck.

9 And just to elaborate a little bit more, because I agree
10 with everything that Colin has said, and I certainly do
11 appreciate that this is huge compromises that have been
12 made on all sides.

13 And I will acknowledge that our NDA is one
14 of the two NDAs that was used as an example that has not
15 yet been filed, but we've reached agreement on how we are
16 going to file it and we did commit to file the C of As
17 and a validation summary.

18 That was the commitment we made. And
19 certainly we will live up to that commitment if, you
20 know, that's where we end up and that's what people want
21 us to do. And I honestly believe that -- while we need
22 to work out exactly what information the center might

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1 like to see, and I recognize double jeopardy and the rest
2 of it as well, I think providing some form where we
3 potentially give the critical quality attributes, we give
4 the in process test, we give the results.

5 It would be easier for the reviewer to look
6 at. We could formulate it and tabulate it and work with
7 the center prior to filing this obviously -- than a batch
8 record. Batch records are tremendously large. Unless
9 you are very familiar with this batch record, you're not
10 going to have a clue where to look for information.

11 And to provide one batch record, which we do
12 now provide -- we recognize the market container batch
13 records. But since we have never once received a single
14 question on any of those batch records, I have to believe
15 they sit in the back and they don't get reviewed very
16 actively.

17 So while we could certainly live with
18 providing a batch record, I think a summary in some form,
19 which I recognize is at this point a morphous, as someone
20 described it, but we certainly, as a company, would
21 commit to work with the Agency for the one NDA that we've
22 already committed for and to try it as a trial.

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1 The NDA is to be filed in the year 2000, so
2 we could work on that as a step forward if we wanted to.
3 But the batch record, to me, is going to be very hard for
4 the center to get much useful information out of,
5 particularly when it comes in near the end of the review
6 cycle.

7 CHAIRMAN BYRN: Any questions?

8 MR. BRENNAN: Sean Brennan, Parke Davis,
9 Division of Warner Lambert.

10 I certainly also acknowledge that a lot of
11 compromises have been made with industry and FDA, and
12 FDA's come a long way. Just a comment back to my
13 colleagues in industry.

14 I think we have to be very careful in
15 talking about summaries of the validation process because
16 a lot of things go on in validating the process that
17 aren't application commitments. And if we start to open
18 up that data or a lot of those observations again to FDA
19 scrutiny, I think we're back into the double jeopardy
20 situation.

21 So I'd just like to make that observation.
22 And one more observation regarding certificate of

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1 analysis. Many of us have laboratory systems that print
2 out C of A's, having completed all the tests. And I
3 think we should talk about a summary of the results as
4 opposed to the actual C of A's, and I'm sure that's what
5 you're looking for as opposed to the actual C of A used
6 by a facility.

7 So it would be a summary of the results
8 versus the performance criteria for that batch is really
9 what you're looking for in terms of the validation batch.
10 And I think we should maybe remove the term C of A from
11 the guidance and focus on the actual results.

12 CHAIRMAN BYRN: Questions, comments?

13 Yes.

14 DR. ROY: Suva Roy, GalxoWellcome. I'd like
15 to support the PhRMA position of providing the C of A's
16 and no summary of the validation data. The validation
17 data should reside where it resides, that's with the
18 field.

19 Batch manufacturing record is a very useful
20 tool as a reviewer. People over here know I used to be
21 at FDA. I found it a very useful tool to refer an
22 application because I could see, step by step, what was

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1 done.

2 And if one batch summary of the validation
3 batches is provided, I think that does the job.

4 Thank you.

5 CHAIRMAN BYRN: Any other comments?

6 Yes.

7 DR. CHEN: Since Bob mentioned my name --
8 Chi Wan Chen, FDA. Since Bob mentioned my name earlier
9 as the one behind the suggestion of one executed batch
10 record, I'd like to explain why I had that suggestion.

11 I thought that would serve two purposes.
12 And again, it's in the spirit of compromise. I think
13 it's a good alternative to this validation summary, and
14 it's also -- it will serve the purpose -- it will fulfill
15 the requirement under the regulation that one executed
16 batch record be submitted.

17 And in addition to this, I have another
18 comment. A suggestion was made earlier that a
19 certification be provided to state that the validation or
20 technology transfer has been successfully made. I would
21 suggest that, for the reviewer and also part of the NDA,
22 it will be useful to also know, in addition to a

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1 successful validation, what changes, if any, have been
2 made to the in process controls.

3 I think that would be very useful. And
4 obviously those changes have been qualified and
5 justified, otherwise you would not have made those
6 changes. But it would be useful for the reviewer and it
7 would be -- I think it's not too much to ask because it
8 should be part of the record in the NDA.

9 CHAIRMAN BYRN: Questions, comments, any
10 other?

11 MR. LACHMAN: I think that puts you back to
12 the validation summary if you're going to ask for that.

13 DR. CHEN: Probably on a smaller scale. We
14 are not getting into discussion about operation
15 parameters. On the other hand, in process controls is
16 part of the NDA and is part of the center responsibility.

17 CHAIRMAN BYRN: Any other questions or
18 comments?

19 DR. REYNOLDS: Yes, I just wanted to
20 clarify. You're talking about in process controls which
21 are specified in the NDA, correct? Yes.

22 CHAIRMAN BYRN: Okay, then we'll go to the

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1 next section, which is continuation now by the committee
2 to discuss approaches. Remember, we had two issues on
3 the table. One is one we've just been discussing which
4 relates to validation summaries.

5 And the second issue is the timing. Is
6 there any feeling on the committee which one we want to
7 take up first? I believe these are the two remaining
8 issues to address prior to seeing if we've achieved a
9 compromise or not.

10 Yes, Bob.

11 DR. SEEVERS: I'd like to do two things.
12 One, I'd like to talk about the timing first. And two,
13 I'd like to put on a mental blackboard two words that
14 have not been spoken yet but need to be before we finish
15 today, and those words are drug substance. We need to
16 address how these concepts would apply to APIs.

17 Insofar as timing is concerned, the proposal
18 that Toby Massa made on behalf of PhRMA of a phase in I
19 think is reasonable and could be made workable. The
20 amount of review actually involved in looking at the
21 release data -- well, let's call it certificates of
22 analysis even if it's not exactly a certificate of

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1 analysis, but those data -- it is not great and could be
2 accomplished fairly quickly.

3 Recognize, however, that as a result of
4 seeing those data, some review issues may arise. An
5 example would be a case where you have a drug product
6 that is a modified release product whose pilot data
7 suggests that the release characteristics of that drug
8 are at one end of a specification range.

9 When we would review data from the
10 commercial site that show that the release
11 characteristics of that drug are toward the other end of
12 the specification range, that would raise a concern that
13 would need to be addressed.

14 Hopefully, the firm would note that and
15 address it in the submission. But if not, those
16 questions would be raised with the firm. A typical
17 response might be a request for a post approval
18 commitment to report stability data on that -- anything
19 that goes out of range right away rather than just using
20 the field alert report system.

21 I raise this as an issue because it's bound
22 to come up at some point or another. It's one thing to

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1 say that the review is simple and straightforward. What
2 we have to recognize is that some review issues may arise
3 as a result of seeing these data that are legitimate
4 review issues, not a case where the center is stepping
5 into the area where the field properly works.

6 MR. LACHMAN: That could be resolved by
7 bioequivalence data to show that the extremes -- you
8 still have them in bioequivalence.

9 DR. SEEVERS: Yes, but if the primary
10 stability data show that over time the release
11 characteristics of the modified release drug product
12 shift toward one end of the -- from one end of a
13 specification to the other, if you're starting out at the
14 high end now, at the commercial site, that does raise a
15 concern.

16 MR. LACHMAN: But if you did your
17 bioequivalence at the high and low ends, --

18 DR. SEEVERS: As long as it stays in spec,
19 you're okay.

20 MR. LACHMAN: That's right.

21 DR. REYNOLDS: Yes, I agree with you,
22 that's something that would be looked at real critically.

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1 I think the key thing is that it would have -- you know,
2 it gets back to being able to defend the rationale for
3 both the release data for those -- I mean the initial
4 data for those release rates and being able to defend --
5 understand the stability performance of that over time.

6 And so I think that that would be the
7 responsibility of the firm to show that the information
8 in their NDA supports that release profile at release of
9 the product.

10 DR. SEEVERS: And I think the firm should be
11 willing to pay -- to commit to pay extra attention to
12 that over time. If the issue is there at -- around the
13 time of approval, it would be legitimate to ask the firm
14 to submit, say, the accelerated data from those
15 validation lots as it develops so that they could be
16 discussed rather than waiting for an annual report.

17 I don't think that would be a huge burden.
18 I don't want to go off on this sidetrack too far. I just
19 wanted to make a point that there can be review issues
20 with these data.

21 DR. REYNOLDS: I think Toby's slides also
22 indicated that those validation lots would be lots put up

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1 on stability as well so that the -- you know, the road's
2 paved to do that.

3 CHAIRMAN BYRN: Okay, are there any other
4 discussion of the timing issue? It sounds like the PhRMA
5 issue at least gives a good starting point for the
6 committee in writing the guidance.

7 Okay, let's go back to the validation
8 summary -- oh, excuse me.

9 MS. MALIK: With respect to the timing --
10 and again, I'm speaking on the part of HIMA. You know,
11 we talked earlier in terms of what is the timing for many
12 of the companies with respect to process validation if
13 you're not talking basically a new drug entity.

14 And although I think a phased in would
15 certainly make that more palatable, I think some of the
16 earlier discussions we had in terms of the timing of the
17 submission of those certificates and the commitments or
18 certifications that the company make are more appropriate
19 to many other companies for the types of products that we
20 do make.

21 DR. SEEVERS: Could you be more specific as
22 to what you feel would work for the HIMA firms?

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1 MS. MALIK: Well, I think the two proposals
2 that I heard were one was -- I think, Bob, you brought up
3 in terms of an approvable letter and we would submit that
4 information. The other discussion that we were having
5 was related to a post approval commitment as we make post
6 approval commitments to do those commercial batch
7 stability studies.

8 And I would agree entirely with the comments
9 that, you know, Eric made earlier too that there is, I
10 think, an ethical standard within the industry that we
11 make those commitments and the expectation is that we
12 will deliver on those commitments, and that if not, then,
13 you know, that needs to be seriously looked at as well.

14 DR. SEEVERS: Okay, but I want to make sure
15 I'm understanding you correctly that HIMA is saying that
16 it would be difficult to meet the commitment to provide
17 validation data before approval.

18 MS. MALIK: I think in the time frame that
19 we're discussing here, it would certainly be more
20 difficult and some of the products are fairly short dated
21 products. So would they elect to take this route? I
22 don't know that we would.

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1 DR. SEEVERS: But if you had the option of
2 doing site specific stability along the lines of the
3 March draft proposal, you might elect to go that way?

4 MS. MALIK: Yes, and I think that's what
5 makes the proposal that was stated earlier of leaving
6 that in as a viable alternative. I think it becomes
7 critical to those companies then.

8 DR. SEEVERS: Okay, one comment about that.
9 One of the things that we have said and everybody's
10 nodded their heads very well, but practice has shown this
11 is not the case, is that the ICH data package is a
12 necessary assumption for any of these.

13 We agreed on that back in the early 90's.
14 We had a gentleman's agreement that we would not start
15 enforcing it until January of 1998. We're still getting
16 NDAs with six month's worth of data in them. Half or
17 more of the NDAs we receive do not have the full ICH data
18 package.

19 That's a very real concern when it comes to
20 implementing any of these proposals. And what I would
21 like to say is that we're going to have to have a third
22 alternative for firms who do not submit the full ICH data

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1 package in their initial submission.

2 More data is going to be needed in some way,
3 shape or form from the commercial site to support that
4 site.

5 MS. MALIK: Could I just ask for
6 clarification because your comment was interesting in the
7 number of data packages you received that don't meet
8 those requirements. I presume from your comment that
9 these are not cases where there has been discussion with
10 the Agency up front.

11 For example, maybe it is an NDA, but it is
12 not really a new drug entity and there has been
13 discussions with the Agency before submission.

14 DR. SEEVERS: It's both. The most common
15 question referred to me as the chair of the stability
16 technical committee can be boiled down to the following:
17 How short an amount of data, how short a time, how few
18 data can we submit at the time of initial submission, and
19 under what schedule can we let it dribble in?

20 That practice is absolutely antithetical to
21 what we're trying to do here today. And what I'm saying
22 is, in those cases we're going to need to have a third

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1 option of additional data from the commercial site to
2 support that site in the absence of sufficient primary
3 stability data.

4 CHAIRMAN BYRN: Okay, anymore comments on
5 timing? We'll go -- the chair will allow comments from
6 the floor.

7 MR. GARDNER: Bob, just to that point, I
8 mean I assume that if people are not living up to the
9 regulations which were established as of the first of
10 January 1998, that you have the right to reject the file
11 and just refusal to file. I don't see why you don't
12 apply that.

13 I'd rather do that than have us build yet
14 another contingency into all of this that there needs to
15 be more site stability data rather than just live up to
16 the regulations which everybody agreed to.

17 DR. SEEVERS: And I would like to do that,
18 too, except the word regulation doesn't apply. It's a
19 guidance. And as such, we are not able to make it a
20 requirement. I am unaware of a case where we've refused
21 to file a new drug application because of an incomplete
22 ICH data package.

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1 I assure you, if you submit an NDA without
2 stability data, we'll refuse to file it. But people are
3 submitting it with just enough data to get by at the time
4 of filing and then submitting it and making sure that
5 they don't wait to submit the last little bit of data in
6 the last three months of the review cycle where it could
7 be considered a major amendment and extend the review
8 clock.

9 I just want to get this on the table because
10 it is an issue right now and it does affect our
11 discussion in that we've agreed -- everybody nods their
12 heads -- that the ICH data package represents a
13 definition of sufficient primary stability data.

14 CHAIRMAN BYRN: One more comment from the
15 floor.

16 Toby.

17 DR. MASSA: We've had a lot of discussion
18 about this at the PhRMA stability committee, and I think
19 we have to have a very rationale approach here. We agree
20 that in most circumstances, yes, the ICH stability
21 package ought to be the baseline.

22 And quite frankly, I agree with Colin. If

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1 people do not have an ICH stability package, it ought to
2 be refused to file unless you have a drug in which -- you
3 know, if you've got the cure for cancer and you're trying
4 to get this thing out there and the only thing that's
5 standing in the way is some stability data, okay then you
6 have a -- that ought to be the exception rather than the
7 rule.

8 I mean, industry agreed to the ICH
9 conditions the same way that FDA did. And you know, the
10 whole purpose of that was to have a uniform standard. In
11 Europe, they won't even allow a discussion of coming in
12 with less than ICH data.

13 CHAIRMAN BYRN: One more comment from the --
14 Eric, and then we'll have a comment from the floor.

15 MR. SHEININ: I totally agree with you. I
16 wish we could refuse to file those applications. The
17 Europeans have a whole different approach. They don't
18 consider the ICH guideline is just a guidance, it's not
19 binding. It's considered binding, I believe. And
20 because of our good guidance practice regulations, we
21 cannot do that.

22 DR. POLLOCK: Bob Pollock, Lachman

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1 Consultant Services.

2 Eric, I would respectfully disagree just
3 based on the fact that the regulations do require an
4 adequate stability data to be submitted with the
5 application. In generics, if you come in with less than
6 three months accelerated, you will receive a refuse to
7 file letter.

8 I signed a lot of them. People are signing
9 a lot of them today. I don't see why new drugs can't do
10 the same thing.

11 DR. SEEVERS: We're working on it.

12 CHAIRMAN BYRN: Okay, anymore comments on
13 timing? I think we've had a very good discussion and I'm
14 sure Bob has a good picture of writing -- his committee
15 has a good picture of writing the guidance or rewriting
16 the guidance.

17 Okay, let's go back to -- we have two issues
18 left. We need to discuss drug substance and we need to
19 discuss the validation summary data, the whole issue
20 around batch records.

21 My understanding of where this issue is, is
22 that Leon suggested a compromise, which is what he called

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1 a certification statement, that no validation summaries
2 would be submitted, simply the validation batch records
3 plus a certification that a validation had been completed
4 properly.

5 I don't know whether you want to --

6 MR. LACHMAN: Well, it wasn't the batch
7 records. It was the C of A.

8 CHAIRMAN BYRN: Right, pardon me.

9 MR. LACHMAN: Yes.

10 CHAIRMAN BYRN: Three C of A's and a
11 certification.

12 MR. LACHMAN: And you know, Sean Brennan
13 from Parke Davis made an interesting suggestion there
14 that should they be the normal C of A's or should they be
15 C of A's indicating that each batch met the acceptance
16 criteria of the validation.

17 You know, I think it's a good point. The
18 normal C of A's have a lot of information, but may not be
19 pertinent to the acceptance criteria or the validation,
20 that batch meeting the validation criteria.

21 DR. SEEVERS: I think we're looking for data
22 to show that the release characteristics of the

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1 validation lots meet the proposed specifications.

2 I would like to add to that. I think that
3 Dr. Chen's suggestion that any changes to the in process
4 controls that are submitted in the NDA should be noted at
5 this time. They might normally be noted in a follow up
6 annual report.

7 I think this is a timely place to take note
8 of them. I think we could live with that and the
9 certification in lieu of a summary.

10 CHAIRMAN BYRN: So what's being proposed
11 here is that, in lieu of a summary, we would have a
12 certification and we would have a notification of any
13 deviations from in process controls.

14 DR. SEEVERS: Or any changes to the --

15 CHAIRMAN BYRN: Any changes to --

16 DR. SEEVERS: -- in process controls.

17 CHAIRMAN BYRN: Okay.

18 DR. REYNOLDS: I think it's changes to in
19 process controls that are filed in the NDA.

20 DR. SEEVERS: Yes, exactly.

21 CHAIRMAN BYRN: Is there any comment on that
22 concept?

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1 Clarification from the floor. Identify
2 yourself.

3 MR. CLARK: Bob Clark from Novartis.

4 Regarding in process controls, does that
5 pertain to a drug product only or drug substance and drug
6 product?

7 DR. SEEVERS: I would say both, but we
8 really haven't discussed how these ideas would apply to
9 drug substance. That's next on the list.

10 MR. CLARK: Right.

11 CHAIRMAN BYRN: Any other comments on this
12 compromise, this concept?

13 Toby.

14 DR. MASSA: I just want to make sure that we
15 understand exactly what's on the table here. Are we
16 saying certificates of analysis or some piece of that
17 release data and certification that the validation was
18 successfully completed?

19 The third part that I'm hearing is any
20 changes to in process controls.

21 DR. SEEVERS: Any changes to what I would
22 call regulatory in process controls.

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1 DR. MASSA: Right, in process controls
2 submitted to the NDA.

3 DR. SEEVERS: Correct.

4 DR. MASSA: No validation summaries, and we
5 had talked before of batch record in lieu of. We're
6 saying that's off the table as well?

7 DR. SEEVERS: Right.

8 DR. MASSA: Just want to make sure we
9 understand what it is we're agreeing to here.

10 DR. SEEVERS: What I'm saying is I think as
11 an Agency we would live with that. I think that the
12 batch record would provide useful information. The down
13 side is it would require a fair amount of review time,
14 which might be hard to come by at that point in the
15 review cycle.

16 And I am not hearing a consistent agreement
17 from the various industry reps that that would be a good
18 thing to do or even possible to do that that point. So
19 I think we could live without that if we have the three
20 things we agreed on.

21 DR. MASSA: All right, so it's C of A data
22 or the C of A, whatever we agree to is the proper data

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1 set, certification that the validation is successfully
2 completed, and any changes to NDA submitted in process
3 controls --

4 DR. SEEVERS: Correct.

5 DR. MASSA: -- applying to presumably,
6 depending on how the drug substance discussion goes,
7 applying to drug substance and drug product?

8 DR. SEEVERS: Correct.

9 DR. MASSA: Okay, thank you.

10 MR. LACHMAN: That can be part of the
11 certification document. Any change in in process
12 controls could be covered there.

13 CHAIRMAN BYRN: Okay, any other comments?
14 Okay, I think we've got timing and I think we've got this
15 second issue resolved. Now we need to -- I think then
16 the last thing we need to discuss is -- and some people
17 were hoping to get done by noon, but we can go a few
18 minutes longer if necessary -- is the APIs and how this
19 applies to APIs.

20 Who would like to initiate that discussion?

21

22 Do you want to start, Scott?

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1 DR. REYNOLDS: Yes, I can start very simply.
2 I think the PhRMA position is this would apply to drug
3 substance and drug product.

4 DR. SEEVERS: And from an Agency
5 perspective, we had, in the three tiered proposal,
6 recommendation of site specific stability data that would
7 be necessary for a drug substance.

8 And in the majority of cases there, what
9 would be needed is the standard stability commitment
10 after a firm has demonstrated that the physical and
11 chemical characteristics have not changed.

12 In cases where you're dealing with
13 environmentally sensitive substances or substances that
14 are known to have polymorph problems, more attention to
15 it would be needed in terms of stability data and we
16 spelled that out in Table 2 of our original proposal.

17 I think we could keep that as the
18 alternative.

19 CHAIRMAN BYRN: So are we hearing the
20 proposal that everything that we've discussed, including
21 the two alternatives, all would apply to both drug
22 product and drug substance?

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1 Okay, do people just want to take a moment
2 and see if there are any concerns -- any other issues
3 that people want to raise?

4 Yes, Colin.

5 MR. GARDNER: Colin Gardner.

6 Bob, just a point of clarification. I mean,
7 we are then saying that the batches of drug product that
8 are validated use the drug substance that has also been
9 validated, so I just want to clarify that that's on the
10 table and that, in fact, it's not drug substance from
11 somewhere else, it is the validated, final manufacturing
12 site of drug substance that's used to produce the final
13 manufacturing site of drug product.

14 DR. SEEVERS: No, the Agency has never had
15 a policy, that I'm aware of, and I know several people
16 will correct me if I'm wrong, that you are absolutely
17 required to track site specific stability for each batch
18 and each site of drug substance and to each batch and
19 each site of drug product.

20 That is unworkable. What our policy has
21 been is -- and the science underlying this. If the
22 physical/chemical characteristics of a drug substance are

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1 the same from two sites, the drug product stability
2 should not be affected by different manufacturing sites
3 of the drug substance.

4 What we have said in the draft guidance I
5 think still holds. To the extent possible, you improve
6 your data by using -- if you have more than one site of
7 drug substance manufacture -- by using batches from
8 different sites in your drug product stability batches.

9 But we said to the extent possible.

10 MR. GARDNER: But just to clarify,
11 regardless of whether there's one or multiple sites of
12 drug substance, nevertheless, the drug product made at
13 the final manufacturing site and the data generated from
14 those validation batches will have used drug substance
15 from one of the final manufacturing sites for the drug
16 substance.

17 Is that -- that's not what you -- that's
18 what we believed you were saying, but you're not saying
19 that to me?

20 DR. MASSA: I think what we're hearing --
21 correct me if I'm wrong, but I think what we're hearing
22 is if you show that the physical/chemical characteristics

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1 of the drug substance made at the pilot plant versus the
2 commercial site are the same, you do not have to use
3 validated drug substance from the commercial site to make
4 validated drug product at its commercial site.

5 DR. SEEVERS: That is correct.

6 MR. GARDNER: Okay.

7 DR. SEEVERS: Otherwise your time lines
8 would be extended by two or three years without providing
9 additional scientific -- without providing additional
10 scientific benefit.

11 CHAIRMAN BYRN: But we are saying that all
12 of these site specific stability agreements that we've
13 made today apply to three C of A's from drug substance
14 manufacture, verification that validation has been
15 completed, and any changes to in process -- regulatory in
16 process controls, all that applies to drug substance?

17 DR. SEEVERS: That is correct. Now, if it
18 happens that you have drug substance available from your
19 intended commercial site when you're getting ready to
20 manufacture the validation lots at the commercial site
21 for the drug product, obviously it would be better and
22 strengthen your case to use those.

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1 My understanding is that, in practice, you
2 often do not have that available because a commercial
3 site for the drug substance may come on line late in the
4 process.

5 Just one other note. This is consistent
6 with the approach that the Agency is trying to take in
7 the BACPACs.

8 CHAIRMAN BYRN: Okay, are there any other
9 comments?

10 DR. KASUBIK: Could I just go back and
11 revisit a point on the ANDAs for my own clarification?
12 We've talked about what we would do in terms of approval
13 of an ANDA. When we get -- let's say on a post approval
14 situation, because this came up --

15 DR. SEEVERS: I'm so glad you said those
16 words.

17 DR. KASUBIK: On a post approval situation,
18 do I understand then that if a firm has an ANDA and it
19 gets approved, and now they want to go from one site to
20 another, they can do this by submitting three
21 certificates of analysis and a validation?

22 DR. SEEVERS: I think what you're doing is

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1 the equivalent of extending your expiration date based on
2 accelerated data. You're extrapolating. This was the
3 other item that I think we needed to have on our agenda.
4 Let's say explicitly what effect do the discussions that
5 we're having and the agreements that we're reaching this
6 morning have on post approval changes?

7 And the answer, from an Agency perspective,
8 is the following. We will try to be consistent pre and
9 post approval. That was the whole point of site specific
10 stability as it was expressed in the '98 draft. It was
11 exactly consistent with what was in the SUPACs.

12 Right now, SUPAC IR is under revision. And
13 what I will commit to this morning is that the agreements
14 reached here will inform the revision of SUPAC IR and the
15 other SUPACs as they go along.

16 But we are not explicitly dealing this
17 morning with post approval changes. The guidance, as you
18 probably know, when it is revised will not have the SUPAC
19 information explicitly in it, but rather will be included
20 by reference to the SUPACs to take into consideration the
21 revision process.

22 So we will not address -- it is not my

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1 intention at this time to address post approval changes
2 in the final stability guidance, but rather to see those
3 addressed through the SUPACs.

4 DR. KASUBIK: Okay. Well, you know, this
5 sort of addresses the comment that Dr. Juerssi had
6 brought up about a virtual company being able to get
7 approval and then later on going to a different site for
8 manufacturing, and that was the reason why I brought this
9 up.

10 DR. SEEVERS: Well, I think that going to a
11 different site proapproval for an ANDA should be
12 consistent for an NDA. I would like to see consistency
13 of the post approval changes process with what we're
14 discussing this morning, but that's a very big step to
15 take and I don't know that we're necessarily ready to
16 commit to that.

17 We are going to work toward that end. But
18 being a good Government employee, I can't promise that
19 this morning.

20 CHAIRMAN BYRN: One comment from the floor.
21 We're talking about post approval issues now.

22 DR. POLLOCK: I want to make sure I

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1 understand this. Most of the discussions here have been
2 centered around moving from a pilot plant to a commercial
3 facility. I think what we're hearing now is we're going
4 from commercial facility to commercial facility, and I
5 want to make sure that everybody is aware of that in the
6 discussions.

7 And if there's a distinction that needs to
8 be made, the subcommittee should recognize that.

9 CHAIRMAN BYRN: Could you identify yourself
10 for the recording?

11 DR. POLLOCK: Sure. Bob Pollock, Lachman
12 Consultant Services.

13 DR. SEEVERS: I agree, and I think the
14 principles should be the same. What I'm trying to get
15 across is that in the development of regulatory policy,
16 we need to take things one step at a time. The charge
17 given to this subcommittee has been to address the issue
18 of site specific stability as it is implemented in the
19 draft stability guidance.

20 The draft stability guidance, when it
21 becomes final, will be focused primarily on proapproval
22 issues. The majority of the post approval issues will be

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1 dealt with in the individual SUPAC guidances.

2 The SUPAC IR revision is ongoing at this
3 time, and we will see to it that the Agency's policy is
4 consistent. That's really as far as I can go this
5 morning.

6 CHAIRMAN BYRN: Tony

7 DR. AMANN: Tony Amann, Eon Labs.

8 I did want to bring up that one point about
9 the pilot to pilot versus pilot to plant. In the generic
10 industry, in the majority of the cases, the pilot plant
11 is the manufacturing plant. So when they're making their
12 biobatches, they are actually doing it in the
13 manufacturing site.

14 So, to us, they're pretty much analogous.

15 CHAIRMAN BYRN: Thank you.

16 Any other comments?

17 Okay, I think, as far as I know, I think
18 we've completed our agenda. I'd like to thank everybody
19 for the spirit of compromise. I think this is an
20 excellent example of how industry and Government can work
21 together to achieve goals that protect the public health,
22 get drugs on the market faster.

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1 And so thank you very much for attending.

2 Bob, do you want to say something?

3 DR. SEEVERS: Before everybody packs up and
4 goes, I'm the one who's got to go back to the stability
5 committee and put into effect -- take into account what
6 we've talked about this morning. I want to be sure that
7 we have a consensus on the committee.

8 So can I go through point by point what my
9 understanding of our discussion has been today --

10 CHAIRMAN BYRN: I think that's a good idea.

11 DR. SEEVERS: -- and see to it that I have
12 a consensus from the committee?

13 CHAIRMAN BYRN: Okay.

14 DR. SEEVERS: Number one is that of the
15 three proposals, the first and third are workable and
16 have different usefulness for different firms. Some
17 firms may choose one, some firms may choose the other.

18 And the committee consensus was that they
19 would be useful offered as alternatives, recognizing that
20 individual cases may have yet other possibilities, but
21 these would be the two main alternatives.

22 Is that a correct understanding?

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1 CHAIRMAN BYRN: Okay, so what is being said
2 here is the second -- the hybrid proposal is off the
3 table. The first and third proposals would be -- first
4 would be primary, second would be alternative.

5 Everybody agree with that?

6 DR. REYNOLDS: I want to make sure I
7 understand the third proposal with the caveats that we
8 presented from the PhRMA position. That's how you're
9 explaining this?

10 DR. SEEVERS: That's correct. That would be
11 the primary, the FDA tiered proposal --

12 DR. REYNOLDS: Right.

13 DR. SEEVERS: -- as amended, based on public
14 comment, would be the alternate proposal.

15 CHAIRMAN BYRN: So the PhRMA proposal would
16 be the -- except the primary proposal, the original three
17 tiered FDA proposal as the alternative, and the hybrid
18 proposal's off the table.

19 DR. SEEVERS: Okay, that's the first point
20 of consensus that I wanted to be clear on.

21 CHAIRMAN BYRN: Everybody on the committee,
22 do you want to -- do we need to have a show of hands?

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1 MR. LACHMAN: That's the PhRMA amended one
2 that we amended during discussion.

3 DR. SEEVERS: Correct. I'm going to talk
4 about understanding of the amendments to make sure I'm
5 clear on that. What I want to do is just go through this
6 point by point and make sure that we all have consensus.

7 And Kimberly, if anybody disagrees, speak
8 now or forever hold your peace. Sounds good.

9 Okay, then the second point would be the
10 issues related to PhRMA's proposal. The initial proposal
11 we received in the pre-NDA package included a validation
12 summary. PhRMA's proposal does not.

13 And as we talked about in the conversation
14 between Toby and myself a few minutes ago, the three
15 things that would then be included in the -- let's call
16 it the amended PhRMA proposal -- would be, number one,
17 certificates of analysis of the three validation lots or
18 the equivalent, and making the point that Eric had made
19 that if there are numerical values available, they would
20 be presented and not the word "passes test."

21 The second thing that would be submitted
22 would be a certification that the validation process had

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1 been completed successfully. And as Leon noted, as part
2 of that, any changes to regulatory in process controls
3 would be noted.

4 That's my understanding of the -- call it
5 the modified PhRMA proposal, which would be option number
6 one. Okay, --

7 CHAIRMAN BYRN: Okay, committee, any --

8 DR. SEEVERS: Yeah, the next question is
9 timing. PhRMA's proposal, as Toby presented it, is that
10 this would be phased in.

11 In year one -- and we'll date from the
12 release of the guidance as final -- firms would be
13 committing to submit these data a month before the user
14 fee goal date; in year two, two months; and in year three
15 and beyond, three months.

16 Is that correct in terms of the timing that
17 the committee feels is reasonable and appropriate?

18 CHAIRMAN BYRN: Okay, committee, does
19 everybody agree with that? Okay, we have a question from
20 the floor.

21 MR. CLARK: This is Bob Clark again from
22 Novartis. Just one -- a little thing about the in

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1 process controls. Again, the limits for the in process
2 controls are not changing. If the methods change
3 somewhat, that's not that relevant, is that correct?

4 DR. SEEVERS: Well, the methods are not, per
5 se, regulatory methods --

6 MR. CLARK: Okay, that's good.

7 DR. SEEVERS: -- submitted for validation.

8 MR. CLARK: That's good.

9 DR. SEEVERS: But I think you need to use
10 reasonable judgement. If you're changing from an HPLC to
11 a TLC method, we probably want to know about it.

12 MR. CLARK: Okay, that's fine. Good.

13 CHAIRMAN BYRN: Okay, a comment from the
14 committee.

15 MS. MALIK: I would agree that that was the
16 proposal that PhRMA put on the table. I guess just for
17 my clarification, based on an earlier comment you made
18 where -- and maybe you're going to get to this where you
19 talked about -- I had talked about the different timing
20 for a long term for other companies.

21 The impression I got was you might be
22 willing to consider it. Not committing you, but that

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1 part of the understanding had to be that we met the
2 primary stability data requirements that were outlined in
3 ICH.

4 I just want to make sure I understood that.

5 DR. SEEVERS: I'm very glad that you brought
6 that up. A proviso for actually either of the two
7 options is that in the initial NDA submission, the full
8 ICH data package be provided. And I heard consensus both
9 from the committee and from the floor on that, and I'll
10 take that as part of the committee's consensus today.

11 CHAIRMAN BYRN: One question.

12 DR. CHEN: Sounds like this proposal three
13 is going to be the first choice recommended by the
14 committee. I just want to make sure that everybody is on
15 the same page. When using this as -- when recommending
16 this as the first choice, are we saying this applies to
17 all dosage forms and all drug substances?

18 DR. SEEVERS: That was my understanding.

19 CHAIRMAN BYRN: That was mine also.

20 DR. SEEVERS: In regard to the Agency tiered
21 proposal, my understanding/commitment is that we will use
22 public comments, both those heard here today, as well as

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1 those in the docket, to examine which dosage forms belong
2 in which category to deal with the question of inherently
3 unstable and provide a better definition there, and that
4 that proposal would be revised according to public
5 comments received.

6 Is that the committee consensus?

7 CHAIRMAN BYRN: Yes, as far as I know.
8 Okay.

9 DR. SEEVERS: Okay, I think that that's all
10 the agreements that we have.

11 CHAIRMAN BYRN: And everything applies to
12 both drug product and APIs?

13 DR. SEEVERS: That is correct. The one
14 other point that was made is what about post approval
15 changes. And the point -- the response that I gave was
16 that that would be dealt with in the individual SUPACs,
17 but that we would commit to making things as consistent
18 as possible pre and post approval.

19 Does the committee agree with that?

20 CHAIRMAN BYRN: Okay, any other -- any final
21 comments? Okay, then I can make my little speech again.
22 I think it's an excellent example of cooperation of the

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industry and Government to improve public health.

Thank you all very much for coming.

(Whereupon, the proceedings were adjourned
at 11:07 a.m.)

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