

NIOSH/NPPTL Public Meeting to Discuss
Quality Assurance Standards Module
for Respiratory Protective Equipment

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Radisson Hotel at Waterfront Place
Morgantown, West Virginia

1 **BOB STEIN:** For those of you who may not know, my name is
2 Bob Stein. I'm in an undefined position in the Respirator
3 Branch in NPPTL. But today my position is defined as
4 introducing Mr. David Book who will be presenting information
5 on the quality assurance module concepts. We posted, after
6 our public meeting in June, in which we presented concepts for
7 a new quality assurance module, we posted a concept paper in
8 July, and that paper has been up. It has drawn some comments.
9 Today's presentation will go through that.

10 We've got two types of slides in two background colors.
11 If you pay attention you'll notice that the background
12 information is presented on the blue slides, and the
13 information in response, anything that we've gotten since then
14 is on the red slides so that you can tell the difference in
15 what we did have and what has come in since then. With that,
16 Mr. Book, it's all yours.

17 **DAVID BOOK:** Good afternoon. Just for my information, how
18 many of you have seen the concept paper prior to this meeting?
19 Those of you who have not seen the concept paper? Okay,
20 that's a small group, so that will help. Those of you who
21 haven't, there are copies in the back of the room. So if you
22 haven't gotten on the Web site you can get a hard copy here.

23 **BOB STEIN:** There's apparently a third group, because that
24 didn't account for everybody.

25 **DAVID BOOK:** I don't deal with abstentions. The
26 presentation today really is broken into two parts, the
27 background, basically a review and repeat of what was said at
28 the last meeting, what's on the concept paper, so that we're
29 all up to speed and on the same page here in the room. And
30 then the questions that we received and the replies to those.

31 The presentation will be broken into thirds, because the
32 concept paper was in three sections. At the end of each
33 section we'll get to the questions for that section. The good
34 news is the sections get smaller as we go on. So don't take
35 the first third as being a third of the time.

36 Okay. The first section were General Requirements for
37 the QA/QC portion of the quality module. The first
38 requirement was to establish a quality system. And that was
39 broken down into both quality assurance and quality control
40 functions. We're trying to keep the specific requirements and
41 the general requirements kind of in different boats, because
42 we have to handle them slightly differently.

43 Quality assurance requirements. We're pretty straight
44 forward that the basic requirement was that we establish an
45 ISO 9001:2000 quality system. We adopted that by reference as
46 opposed to trying to write all those provisions in. That's
47 the major change from the past concepts that you've seen. The
48 other requirements were that you do what you need to have a

49 quality system, you keep a good organizational structure.

50 We've asked that you submit a quality manual. That's
51 standard practice at this point. A new requirement is that it
52 be submitted at least every four years. And we'll get to the
53 reasons for that. We wanted you to keep quality records for
54 the lifetime of the respirator. That's a common sense sort of
55 thing. And servicing records we wanted you to maintain for
56 seven years.

57 The next section was on quality control records. And we
58 requested a quality control plan flowchart, which is fairly
59 expanded from the flowcharts we're asking for today. As part
60 of that we've got design, production, and engineering
61 drawings, the usual drawings you're submitting now. Assembly,
62 inspection, and test procedures, again, there's not much new
63 there. Classification of defects and sampling plan
64 requirements, we do have some changes for the sampling plan
65 requirements.

66 We are looking towards getting the quality systems to be
67 based on capabilities. And as such, there's going to be a
68 transition from the current sampling plan approach. We kind
69 of have a three tiered version of that. We will allow a three
70 year extension for 105 sampling plans for existing
71 manufacturers. Where we still have a zero defect Mil-Std-1916
72 plan where the sampling plan and also we're using Mil-Std-1916

73 as a good guide and example for the process capabilities and
74 SPC and as physical control.

75 We've expanded the audit program slightly, but we've
76 spelled it out in significantly more detail than the existing
77 standard. We're looking to have pre-approval audits. We'd
78 like to see your site before you begin a new sort of
79 production. The manufacturing site audits are conceptually
80 broken down in a quality management system audit and a quality
81 control NIOSH specific audit. Those do not need to be
82 separate physical events. From some of the questions it looks
83 like you have separated them in time and space as well as in
84 thought. That's not necessarily how that will be implemented.

85 The product audits remain the same, except that we may
86 ask you to supply us with products free of charge
87 occasionally. That's current practice, but not current
88 legislation. The CPIP audit program will continue. We'll
89 continue to have investigations.

90 A new requirement was a revocation of approval for lack
91 of maintaining the quality system. We've always had the
92 ability to revoke approval for product that is found to be
93 defective. We want to be able to say we're concerned that you
94 may or may not be able to produce a good product. We don't
95 want to have to wait until you've got a defective product
96 there. So we've added that.

97 External resources. We're currently running a program
98 where we have - are using external auditors. That seems to be
99 going well. We're looking to add external laboratories.
100 That's a little further in the future before that's fully
101 implemented.

102 Reporting requirements. Information flows from the
103 manufacturers to NIOSH. We obviously want you to maintain
104 good production practices. There's no news there. If you
105 make changes to an approved respirator, we'd like to know
106 about that before the changes are made. First piece
107 inspection has drawn a number of comments. We'll talk about
108 that. We've asked that you do an audit of one of your
109 products per year. This is one way to get your staff and your
110 resources to help us to assure that the respirators in the
111 field are good and working and practical devices. Complaint
112 reporting, that's a requirement of ISO. It's also - we've put
113 some specific requirements in there about what we want to be
114 notified of and when.

115 Before we go on to the specific questions for the quality
116 and assurance portion of the module, I thought it was
117 important to point out that there are really two sorts of
118 questions. There's strategic questions and issues which
119 relate to general principles and guidelines, the framework for
120 doing business, for setting up what we're doing. We're trying

121 to establish that framework at this point, and then once you
122 have a framework established you move on to tactical, the
123 specific requirements for the implementation.

124 Many manufacturers, most folks are really keyed into the
125 tactical issues and are asking very specific questions. And
126 we've tried to answer those as best we can. But until we're
127 sure that the framework goes through and everything else goes
128 through, we have to hedge a bit on those answers, okay. So
129 when you see kind of short answers, it's because you're two or
130 three steps ahead of where we are in taking this quality
131 module and turning it into the rules that we have to live
132 with.

133 General requirements. You should have a quality system
134 and it should be good. Nobody had a comment on that.

135 Okay. Quality assurance requirements. How will NIOSH
136 assess approval holders that claim ISO 9001:2000 status who
137 are not formally registered? The way we do now. At this
138 point we have a quality review, a quality manual review, and
139 site audits. We're going to continue that practice to
140 evaluate quality systems. The advantage that comes out of
141 this is we now have a single standard as opposed to every
142 single manufacturer having their own standard. So it should
143 be easier on us. It should be more standard for you. And
144 those of you who don't want to go through the expense, the

145 perceived bother of formally registering, we'll continue to do
146 business together the way we have.

147 Can an ISO certificate be sent in lieu of submitting a
148 quality manual every four years? We'll think about it. We
149 really had that in there as a communication issue to assure
150 that we're seeing your current version. I'd find it surprising
151 that you could have a quality system in place for four years
152 and not make a significant change. That happens, but I'd be
153 surprised.

154 Can "significant" and "significant revision" be defined
155 more clearly? We'll clarify this through policy when we get
156 there. Two examples of what a significant revision of quality
157 revision would be, would be a change in management structure,
158 a change in ownership. We're not worried about dots and
159 commas and documentation questions, but if you're changing
160 processes or you're changing the way you're doing the math,
161 that's significant.

162 What exactly are servicing records? Servicing records
163 are records that apply to any respirator brought back to the
164 manufacturing point or factory authorized service
165 representative. Those of you who are making complicated
166 respirators do the service and you understand that. There are
167 some folks that are making simple masks, onetime use devices
168 that probably aren't doing service. These are your questions.

169 If they're complicated or simple, it's just what we received.

170 Can the importance of product and process design controls
171 be stressed? We're trying to do that. This module is a step
172 in that direction. The adoption of ISO 9000 moves somewhat in
173 that direction. We're working on balancing between design and
174 inspection, and trying to find a reasonable place where we can
175 do both of those. We have manufacturers that are across that
176 whole continuum.

177 NIOSH is encouraged to embrace state of the art practices
178 for the quality engineering field. My first response to that
179 was thank you for the encouragement. It's the intent of the
180 Institute to accommodate state-of-the-art practices without
181 overly constraining the range of acceptable approaches. We're
182 going to be flexible on that. I think you will see - I think
183 you have seen that we're trying to update this module and
184 everything we're doing is trying to move it in those
185 directions.

186 NIOSH could outline the requirements of ISO 9000:2000 in
187 the CFR. Our response to that is, that was our initial
188 approach. And there are a lot - by adding - incorporating ISO
189 9000 by reference it's just simpler on everyone. This way we
190 don't have to have a whole core of folks who are doing the
191 NIOSH version of ISO. It just makes more sense to do it this
192 way.

193 Here we have a specific command. Add the definition of
194 the design verification, validation, design validation,
195 process validation. These are important concepts. I don't
196 think we use those phrases specifically. The concept should
197 be covered in the ISO document which is incorporated by
198 reference. Unless we specifically call those out, there's no
199 requirement for us to define them.

200 Can language be added to stress independence and
201 authority of the organizational structure? I think somebody
202 out there has got a quality program that's getting flack from
203 management and would like a little support. Hopefully the ISO
204 9000 requirements specify a structure that will allow this to
205 happen. I don't think if you can follow the ISO guidelines
206 you should have interference problems in your quality program.

207 Why does NIOSH have to have a quality manual resubmitted
208 on an every four year or less cycle? The answer to that is
209 experience. Quality manuals of many manufacturers are not
210 submitted on a timely basis. This is an attempt to improve
211 that performance. We've discovered from experience that when
212 we announce a visit every three years or every fourth year,
213 all of a sudden there's a new quality manual that's submitted
214 that week. It seems to be the flag to say, "oops, we've been
215 using this quality manual for two years, and..." So we're just
216 trying to make sure that they will come in. We have current

217 records. We can see what you're doing.

218 Acceptable quality manuals should be defined. We'll
219 handle this. We think that's a pretty straight forward
220 phrase. Acceptable would be acceptable to NIOSH; acceptable
221 within the application procedures.

222 Standard application procedures. Significant revision
223 should be clarified. Again, we have very specific comments.
224 A decision tree would be helpful for the industry. If you all
225 did things the same way, that decision tree might be helpful.
226 I don't know that I'd want to try to write it. Significant
227 revision needs to be defined. We'll handle this. I think it's
228 fairly clear language.

229 Servicing records. We had a similar comment in one of
230 the other sections. Servicing records are records that apply
231 to any respirator brought back to the manufacturing point or
232 factory for servicing.

233 Can "or equivalent national body for non-US approval
234 holders" be added to the ISO 9001:2000 statement? When we
235 incorporated ISO 9000 by reference we said you will use the
236 ANSI ASQ ISO 9000 standard. We have no objections to using
237 the equivalent national standard if you happen to be standing
238 in France or Germany or somewhere else where there's another
239 body. We may have some difficulty getting that past the
240 lawyers. We may have to word that a little bit. But we'll

241 try to incorporate that.

242 Can a letter be used in place of a quality manual
243 submission at four years if no changes have been made? Again,
244 we'll consider this. I'd find it an unusual quality system
245 that hadn't changed at all in four years. We want this
246 requirement as a notification so we know that we're
247 communicating, that you're looking at your quality system. We
248 wouldn't object if we were on good terms and we believe that
249 you were a small manufacturer, you hadn't changed anything,
250 and that really was just a notification issue.

251 Transition for Mil-Std-105D to 1916 will be costly and
252 unnecessary. Neither comment should be true if implemented
253 well and thoughtfully. And we'll probably talk about that
254 later.

255 How will alternative sample plans be evaluated to
256 determine equivalence? The short answer to that is
257 statistically. We had looked probably at the equivalent
258 consumer risk and producer risk, take a look at how your
259 operating occurs compared to what we had specified. There are
260 ways to do it, that are known out there. This isn't the forum
261 to go through the details, but talk to us. We'll evaluate.

262 When is a destructive sampling plan or reduced sampling
263 plan appropriate? The requirements for reduced sampling plans
264 are outlined within both 105D and 1916, so they're in there.

265 Read the plans.

266 You'll notice that there's an arrow under the destructive
267 comment. And little arrows are places where your comments
268 have caused NIOSH to either learn something or change their
269 approach to how these things are done. Because of this
270 comment we went back and reviewed 1916 in detail and
271 recognized that it does not apply to destructive sampling. We
272 have some language that works around that a little bit, but
273 we're going to have to rethink just how we want to handle that
274 for those of you that do destructive testing. We don't have
275 an answer to that question at this moment.

276 Will NIOSH expand the time frame from three to five years
277 for sample plan transitions? We believe those three years are
278 an adequate and ample time to accomplish the transition. You
279 know it's coming, it's going to take us some while to get the
280 standard published in the docket, into law, it should be
281 sufficient.

282 For what reasons is the same information contained in the
283 quality system requested for each individual application
284 package? How can redundancy be reduced? Again, we've kind of
285 got the horse before the cart here. Once the quality module
286 is adopted, the requirements of the standard application
287 package will be addressed. We'll try to reduce the
288 redundancy. There's a set of rules out there, you've all

289 learned them, you believe that they're the only way the world
290 can ever happen, and now we're changing this, and now you're
291 seeing the same requirement in two places. Well, once the new
292 requirement gets in place we'll look and try to eliminate the
293 overlap created in that transition period.

294 The proposed quality plan flowchart requests much more
295 information than currently. The answer to that is, yes it
296 does. The requirements have been expanded based on audit
297 results and field experience. We had very, very minimal
298 requirements when the original standard was written for
299 quality, and we're trying to - we're playing catch up here.
300 We're trying to get to where what you've submitted is
301 sufficient for us to truly evaluate your quality system and
302 for us to be able to go out and audit against. We want to see
303 if you're still using the quality system you've submitted.

304 Under quality control requirements there's a quote that
305 says, "The procedures in this paragraph are required... but do
306 not have to be submitted to the Institute." How likely is
307 this work to be performed? Apparently there are folks out
308 there who believe unless we come out with a hammer and check
309 up on you, you don't have to do it. I know there is nobody in
310 this room who believes that. Okay. And the answer to that
311 is, very. It's very likely that "that" will get done, because
312 those are procedures that will be verified during the site

313 audits. Those were things like test procedures and protocols
314 that we didn't want you to have the expense of sending to us,
315 that we didn't want to clutter up the space storing them, but
316 that we needed to know were in place if they look at it from
317 an audit - when we do audits.

318 Can "classification of defects" be changed to "critical to
319 quality characteristics"? So somebody wants a specific
320 verbiage change. The Institute will consider this suggestion
321 as it more correctly reflects current usage and practice.
322 Frankly, when we've been thinking of classification of defects
323 we have to translate it in our minds at this point, because
324 that is such an old quality concept that we're kind of going,
325 "what does that mean?" So this is more common usage and we may
326 try to adopt this to reflect some of the shifts from
327 inspection to process.

328 I just said, you know, we don't like the concept. Why is
329 classification of defects required in a balanced quality
330 system? It's part of the balance. We're not throwing it out.
331 It's required as part of the initial review process as well as
332 ongoing testing and inspection programs. So we may tweak how
333 we think of it, but it's one of the drivers of what you test,
334 how you test it, why you test it, how you evaluate the results
335 of those tests, so the concept has to stay there even in a
336 modern system.

337 Here's the trick question of the day. CPK indices
338 require variable data. They cannot be calculated from
339 attribute data. That's a true statement. But if you're
340 evaluating the capabilities of a process, somewhere in that
341 process you have key characteristics, and somewhere in those
342 key characteristics, you have variable data. Measure the
343 right data, create the right index, control the right things,
344 and you won't have to do it on attribute data.

345 Can control chart information be used in place of zero
346 defect sampling for attribute data? Yes. If you can do it.
347 But it's going to take a little bit of work and a little bit
348 of thought. You're going to have to understand a lot of
349 concepts. But we don't have a fundamental problem with that
350 if you can do it and do it properly.

351 Why does NIOSH specify requirements for minor
352 characteristics that do not affect form, fit, or function?
353 Great question. We don't know. We'll consider dropping this
354 for minor characteristics. The history on that I suspect is
355 that when the first set of legislation was introduced we
356 adopted military standard where they're the purchaser. We're
357 the regulator, we're not the purchaser. The Army might care
358 if 10 percent of their helmets come in with a blemish. As a
359 regulator I don't care. Your customer cares. He'll make you
360 do it. But I don't need to make you do it. We never looked

361 at that. We never even conceived that there was an issue
362 there. But this might be a place where we can save a bunch of
363 data creation and data reporting if we truly don't have a
364 reason to look at minor characteristics.

365 Mil-Std-1916 requires approximately four times as many
366 samples for Major A characteristics as 105D. This will be
367 costly. And the second half of that was, "...for no good
368 reason." We understand that. And the additional sampling is
369 part of our work toward using process controls. As sampling
370 becomes more expensive, process controls become more viable.
371 We shifted from looking at manufacturers' risk to consumers'
372 risk. The result of that is that in order to achieve a higher
373 level of quality assurance you end up with a higher level of
374 inspection. Another good reason to move away from inspection
375 based systems. As long as we're there, we have to improve the
376 assurance that we have from those systems.

377 Audit programs. Certified ISO 9001:2000 manufacturers
378 should be subject only to quality system and product audits.
379 Others are redundant. Someone looked at all of the audit
380 programs, thought of them independently, thought of them as
381 things they were going to see every year, and said, "Oh, oh,
382 help me, the government's going to be here every other day."
383 That's not what we're planning on doing. The amount of
384 redundancy should be minimal. There are ways that some of

385 those can be combined. There are a number of those that don't
386 apply. The product audits are simply sending a sample to us.
387 And we'll do the product audit off-site. If there are no
388 problems, there are no CPIP investigations. So there's not a
389 major expansion of the number of audits in this proposal if
390 you read it carefully. If you've got a good ISO auditor and
391 they look at the things they ought to, the NIOSH requirements
392 can be incorporated.

393 Can NIOSH provide additional information on submitting a
394 monitoring report in lieu of an onsite audit? Again, we've
395 got specific requirements out there before the general
396 requirements. We'll develop that. But we don't think it's
397 going to be a hardship on anyone.

398 Certified ISO 9001 manufacturers should be subject only
399 to the quality system - I think we just were there.

400 What are the details of the qualifications of NIOSH
401 authorized representatives? At this point we're creating
402 NIOSH authorized representatives through the federal contract
403 procedure. So we're putting this out to bid, evaluating the
404 proposals that come in, and the minimum requirements include
405 RAB certification and familiarity with the respirator
406 industry. We think those two are important. There are some
407 folks who think that the auditors should have no contact at
408 all with the respirator industry. That's kind of a chicken-

409 and-egg thing. They have to have some familiarity, but the
410 question is, "How do we keep them separate - from using that
411 information inappropriately?"

412 What mechanism is proposed for submitting ISO audits to
413 satisfy the NIOSH requirements? The most straightforward
414 approach to that - currently we send written notice of any
415 audit, it's given to - prior to the site audit. It's
416 anticipated that when you receive that we'll get a note back
417 that says, "Oh, hey, we had an ISO audit that happened at such
418 and such a time that meets your requirements. Can we submit
419 that?" And our response would be to evaluate that and say,
420 "Yeah, that looks acceptable."

421 Revocation of approval for lack of a quality system.
422 There were no comments there. New pieces. There were no
423 comments.

424 External resources. An appeals process to resolve any
425 discrepancies between NIOSH and manufacturers should be in
426 place before any private laboratory testing is used. Yes, we
427 need it to control the folks who are doing the testing for us.
428 We have an appeals process. We will have those in place before
429 we begin to implement that sort of thing.

430 The use of an auditor associated in any way with the
431 respirator industry presents a conflict of interest. This
432 conflict always exists. We've been using external auditors

433 for about two years now. We've had no bad experiences in that
434 light. We've inquired heavily. We don't think this is going
435 to become a real issue, but we continue to monitor it.

436 Can NIOSH clearly define when a NIOSH versus a third-
437 party auditor would be used? We're developing those details.
438 In general, typically third-party auditors will be used for
439 routine situations. Special requests by a manufacturer for a
440 NIOSH auditor would typically be honored. In our letter that
441 goes out to introduce any of the site audits, we identify if
442 we're planning on sending a representative rather than a NIOSH
443 person. There's a question about confidentiality in that
444 letter. If there are any concerns, either we'll send a NIOSH
445 representative with them, or a NIOSH representative will come
446 out. But, there's always an invitation to talk to us if you
447 have a concern. And that's not going to reflect badly on any
448 manufacturer that makes that request.

449 External laboratories should be certified to ISO
450 9000:2000. Actually the testing standard is ISO 17025, and
451 that's the standard that we've used with the military testing
452 laboratories and that we anticipate being used as we develop
453 laboratories for certification testing.

454 What accreditation do NIOSH laboratories currently
455 maintain? Somebody wants to know our credentials. It's about
456 time. The answer is none. To quote Sam Terry here, "We are

457 the gold standard." We're learning to move away from that
458 comment. We're in the very early stages of adopting ISO 17025
459 ourselves. And we've begun to work towards that. We think
460 it's appropriate that we would hold ourselves to the same
461 standards that we will hold the folks who work for us.

462 Here's my favorite comment. "Several of the requirements
463 outlined are costly without adding benefit." We believe that
464 all of the requirements add a benefit. We didn't
465 intentionally put any thing in there that we don't think adds
466 benefit. But this question is so general that it really can't
467 be answered in a straightforward kind of way. If you have
468 specific concerns about specific provisions, let us know,
469 we'll think about it. We'll decide if, and why we think it
470 has, value. And if it doesn't, we'll consider (changing or
471 removing) it.

472 Can NIOSH provide additional guidance in defining form,
473 fit, and function? We've been using form, fit, and function
474 for 30 years. You would have thought we knew what it was by
475 now. This is standard existing language. We've got a number
476 of letters and notices and clarifications on what that is. If
477 you've got a specific question about a specific item, we'd be
478 happy to give you specific guidance.

479 "First piece inspection is redundant and a non-value
480 added activity." There's a number of thoughts on that

481 question, and we're currently considering the cost benefit
482 value of requiring first piece inspection. We've had a lot of
483 comments on how to do first piece inspection, and we're
484 looking at whether or not it's worth the time and energy to
485 define it in a way that produces value for everyone.

486 Under reporting requirements - which was a new section.
487 The exact quote says, "Manufacturers should only report
488 complaints of death, injury, and hazard." The commenter added
489 "serious injury or serious hazard." NIOSH feels it's part of
490 the agency's responsibility to collect information on any
491 injury or hazard. If you look at the specific language that
492 was used there in the section 1.7, it doesn't - it says only
493 substantiated and goes on. So we're not asking for frivolous
494 complaints, but we are asking for anything that's real to be
495 reported. Or proposing to ask for anything that's real to be
496 reported.

497 NIOSH should define "major" classification of defects as
498 used in this section. We're using it the same way we've always
499 used it. See CFR 42 84.41 if you want a specific definition
500 of major. I bet I could ask and I could get it from half of
501 the people in this room verbatim.

502 Reporting requirements. "A decision tree to aid in
503 determining significant changes would be useful." I don't
504 know that we can give that level of guidance. Any aids

505 developed to determine significance will be generated after
506 the quality module is adopted. Again, we think this is clear
507 language, clear common use language. We're not interpreting
508 it in any unique, special kind of way.

509 We had a three day audit failure time reporting. We
510 wanted the manufacturers to do audits of their products once a
511 year - of a product line once a year, and we wanted the
512 reports of failures within three days. We're considering a
513 slightly longer time frame. Three days probably was
514 excessively zealous on our part. Uh-oh, I think I used a
515 legal term. I may be in trouble now.

516 Is the audit of each product line strictly a performance
517 audit? The answer to that is, as we've discussed it
518 internally, yes. We're asking you to go out, see if your
519 product performs as you said it would, once a year, and
520 letting us know that that's the case. If it fails, this is
521 something both of us need to know.

522 We also ask that complaints be sent to us within three
523 days. Can this be lengthened to 10 days? You've got the same
524 answers as the last slide. We'll consider bumping that up
525 somewhat.

526 This is one of the fun pieces. "First piece inspection
527 is redundant and a non-value added activity." "First piece
528 inspections are common practice and the requirement should be

529 removed." So it's so common and so irreversible that it's
530 needed by everyone or it's a complete waste of time. Both of
531 those comments came in. We're somewhere in the middle, I
532 guess. Again, we're looking to see whether we need to specify
533 this in the law, or whether the manufacturers are doing it as
534 a matter of practice and you don't have to do that.

535 Okay, that gets us through the long section. A little
536 bit of review now on administration and fees. Application
537 procedures. Applications will go to NIOSH. That seems like
538 an appropriate place. Examinations will be conducted by NIOSH
539 who may use external labs, but that will be developed.
540 Applicants may consult with NIOSH. Again, if you want to talk
541 to us, we're always here. Mergers and changes will be
542 reported to NIOSH. When you buy somebody, tell us. If you're
543 bought by somebody, tell us, please.

544 What needs to go in the application package? They'll be
545 in a standard format. We need a complete description of the
546 respirator. We need plans for quality control and quality
547 assurance in the broad senses of those terms. We're asking
548 for pretest data exams, inspections, and tests, stuff you're
549 used to seeing. A note that standard production tooling was
550 used, and a complete respirator for testing. There are no
551 changes, significant changes there, from what we're doing
552 today.

553 We also removed some language in various sub parts. If
554 you withdraw an application, an approval, we'll want to be
555 notified, and we think you should notify your agents and
556 distributors.

557 Fees. We have lots of fees. Fees for examinations.
558 Fees will be refunded if no work is done. We're trying to be
559 good about this. Novel products will be charged per hour.
560 Fees for site audits will be charged. Problem investigations
561 may be charged. Fees for product audits may be charged.
562 Travel costs will be billed at actual cost. There's a
563 transition there that we're trying to use the fee structure to
564 cover a significant portion of the NIOSH cost. This is not
565 news anywhere. This is how the Federal Government is
566 evolving.

567 Typical fees - there's a whole series of charts and
568 tables. For new approvals most are between \$2,800 and \$5,000.
569 Gas masks have a base fee within that range and then a per-
570 additional-gas fee on top of that. Extensions. Most
571 extensions are \$2,200 to \$3,500. Fit test was \$5,000. This
572 is just a short summary so we're on track with what the
573 overall numbers are.

574 Maintenance fees would be based on the number of active
575 approvals. So if you want to drive some costs down and you
576 have obsolete products ...

577 Administration of fees. You make an application, you
578 send us a check. If we travel to visit you, we'll bill you.
579 That's the way we envision it. Maintenance fees, we'll ask for
580 the fees once a year.

581 Questions and replies. Electronic transfer of funds was
582 included in the July 14 draft. Can this be retained?
583 Somebody managed to read the July 14 draft before the July 17
584 draft was out and caught this. Good job. We've discovered
585 that we don't have a mechanism to accept electronic transfer
586 of funds. We are as amazed by that statement as you are. And
587 we will try to find a way out of that. But until we do, we
588 can't propose it. We'll see that it happens.

589 A separate statement requiring pre-testing is redundant.
590 It's redundant, but I don't know from where. That's the only
591 place it's mentioned in the draft proposal. So if we take it
592 out of there, it doesn't appear anywhere. It's redundant from
593 what we think we remember.

594 Specifying prototype or regular production tooling is
595 restrictive and unnecessary. This is existing language.
596 We'll consider if it's too vague, if you don't understand what
597 it means. We don't want you doing special, special things
598 just to submit something and then producing product in a
599 completely different sort of way.

600 Would products have to be delivered in cases where NIOSH

601 uses external testing laboratory? Well, yes, they have to be
602 delivered. "Where they need to be delivered," will be
603 generated, whether they go directly to us or directly to the
604 laboratory. When we get to having laboratories external of
605 NIOSH we'll tell you that. In the case of CBRN, we've
606 addressed that issue and it's being delivered directly to the
607 military testing laboratories. So if it makes sense we'll do
608 that.

609 There were no comments on the language and section
610 changes.

611 Voluntary withdrawal of approval. "Notification of
612 agents and distributors serves no purpose or is redundant of
613 activities performed during voluntary withdrawal." I always
614 love people who know there's only one way to do anything, and
615 that's the way they've been doing it. The comment ignores the
616 possibility of a manufacturer leaving the respirator business.
617 There are a number of scenarios where people will not be
618 notified as part of good ongoing business practices,
619 especially if you're no longer going to be ongoing in that
620 business. We've had problems where the appropriate folks
621 haven't been notified. That's why it's needed.

622 "Why would NIOSH be interested in the voluntary
623 withdrawal of approval other than to know that the product is
624 no longer being offered?" Well, that in and of itself - I

625 think would be sufficient. But at this point we'll stop
626 billing you - the manufacturer - annual maintenance fees.
627 We'll quit asking you for money.

628 Fees for approvals. "Manufacturers should not have to
629 support indirect costs with fees." This is a cost of doing
630 business for NIOSH. That's a true statement. The government
631 and private sector operate in kind of different modes. In the
632 private sector the indirect costs would be rolled into some
633 overhead or profit number. The government doesn't have that
634 option. Current guidelines indicate that we should recover
635 the full cost for any goods or services that are provided.
636 That includes direct costs and indirect costs where those
637 indirect costs can be related to the service. So it's the way
638 the government does business.

639 How are direct costs calculated and controlled? We've
640 got an accounting system. That's how they're calculated.
641 They're controlled through all of the government control
642 mechanisms, most of which work. Occasionally there are
643 newspaper articles, but they're fairly rare. The initial fees
644 are based on historical data. So we went and looked at what
645 we had been doing and how we'd been doing that and used that
646 as our first baseline.

647 "Can the new fee schedule be phased in over time?" And
648 the answer to that is, "It's not possible to phase in a new

649 fee structure." We will however try to grandfather or delay
650 implementation of it - once the quality module has been
651 adopted - of the initial implementation of the fees to allow
652 you time to retire respirators, to make some plans, to be
653 aware of that. So we're not going to try to jump on that.
654 We'll try to be a bit relaxed about that and let you know so
655 that you can make appropriate plans.

656 "How will manufacturers be notified for request of
657 payment for non-certification fees, such as audits?" We'll
658 develop those details. My first answer to that was by mail.
659 We'll develop a billing system.

660 "NIOSH should describe (services) performed for which
661 fees are assessed." I think if you read through the concept
662 paper those were fairly well delineated in pretty good detail.
663 By the time we get through the CFR submission process they'll
664 be developed in even more detail.

665 "Can ample notification of pending implementation of
666 maintenance fees be given to allow manufacturers to
667 voluntarily withdraw approvals?" Well, if we can define
668 ample, yes, we can do that. Again, take this as notice it's
669 going to be a while before it works through all the formal
670 government requirements to go from a proposal to a rule.

671 Administrative fees. Nobody cares that we're going - how
672 we're going to bill you there.

673 Section three. Approval labels. We asked for comments
674 on approval labels. We received exactly one. NIOSH should
675 look for ways to eliminate the matrix from the label. Well,
676 "looking for" is easy. We think there are some ways to do
677 that. The specific persons with the specific concerns should
678 come forward and talk to us. In some cases that should be
679 doable. Okay. We had some questions - well, we had some, we
680 got one question that didn't fit into any of the categories,
681 so it gets its own little box here. NIOSH as a test facility
682 should seek certification by an ISO 9001:2000 registrar. And
683 again we repeat, we're in the early stages of looking into the
684 ISO 17025 certification as a testing facility, as NIOSH
685 itself. So we're beginning to look in that direction.

686 We did actually make it to the end of the slides. If
687 there are any questions, I'd be happy to take them at this
688 point.

689 **JOE DUNLAP:** I'm Joe Dunlap of ILC Dover. I had a
690 question on paragraph 1.3, down in sub-paragraph (2) (b) where
691 we talk about part numbers being clearly and permanently
692 marked on the component. Many of the products now that NIOSH
693 is getting ready to release with the new CBRN spec are escape
694 only, visualized as single use items. And I'm wondering
695 whether this would really be pertinent to single application
696 items where you would not necessarily be maintaining or

697 servicing these items.

698 **BOB STEIN:** For single use - if it's truly a single use -
699 and it's sealed and so you're going to tear it open and you're
700 going to get one shot at it, it's still good to have at least
701 one part number for that so you can refer to that unit.
702 Because as you go through various iterations, that might be
703 one way to distinguish between some sub-variant or something,
704 okay. And what we end up with... that only refers to part
705 numbers that are identifiable to the user. Like on more
706 complicated ones, it's only those subcomponents that they can
707 distinguish. It's not down to the nut-screw-washer level.
708 Okay? But the other thing we end up with on single use is on
709 the matrix, besides having a part number for the unit itself,
710 we need a part number for the user's instructions. And then
711 that helps to control the revision levels and so forth. So it
712 is a real simple system, and we don't view that having one
713 part number as being overly burdensome. That's all we would
714 be asking for.

715 **JOE DUNLAP:** So you consider clearly and permanently just
716 to be a labeling system, it's not some sort of laser marking
717 or indelible ink markings or color coding in some form?

718 **BOB STEIN:** The standard for permanent has been that it
719 should either be there, or that if it's not that evidence of
720 it having been removed should be obvious to anybody looking

721 for it. In other words, you identify in your drawing, "here's
722 where the part number belongs," so if we find one without a
723 part number it ought to be, "Oh, we can see why it wasn't
724 there," or, "Somebody took a key and scratched it off.", or
725 something like that. It's kind of the standard. It's
726 difficult to define it precisely.

727 **BODO HEINS:** Bodo Heins from Draeger. I would suggest
728 concerning the fees NIOSH should think about it again. And I
729 would suggest to increase the fees for the actual approvals
730 and not give the - or make actions creating costs and sends
731 one to the manufacturer. It would be a unique act that
732 somebody would make actions, which we didn't give an order and
733 we have to be invoiced at the end of the year. I can agree
734 that you need to be paid for all your activities, but I think
735 it's the wrong way to do it with an invoice once a year. Add
736 it to the fees so that you come to your costs, but don't make
737 actions and send an invoice. That's the wrong way I would
738 say.

739 **BOB STEIN:** Are you talking about the maintenance fee,
740 Bodo?

741 **BODO HEINS:** Every fee you're invoicing to us. Yeah,
742 maintenance fee.

743 **ROLAND BERRY ANN:** Are you including the audit fees as
744 well in there?

745 **BODO HEINS:** Everything for which you are sending us an
746 invoice. We have to pay without having - getting the order.
747 Something has to be done. Like we are doing with extension of
748 approval, then you require some work and we have to pay for
749 that.

750 **ROLAND BERRY ANN:** Right. And the idea behind segmenting
751 on the way we set them up is so that you pay for the services
752 that you receive and don't pay for the services that you don't
753 receive. For instance, if we send you notification that we
754 would intend to come for a site audit, and you say, "Wait, we
755 just had an ISO audit last week.", and send us the report and
756 we accept that in lieu of our doing the audit, we wouldn't
757 charge you for the audit. But if it's included in the price
758 of the approval, then we've already charged you for that. The
759 other aspect of that is we don't have time-limited approvals.
760 So we would have to prorate the cost of doing audits and the
761 other things over the projected life of the approval, and we
762 were trying to avoid that.

763 **BODO HEINS:** But you should understand the manufacturers,
764 we have to calculate our costs one year or more in front of
765 us. And if you do not know who's doing something for us and
766 sending us an invoice of which amount of which we do not know,
767 which we cannot calculate, that's not a way which a company
768 can practice.

769 **ROLAND BERRY ANN:** I understand that. We'll take that
770 into consideration. One of the things that we intended to do
771 was, in calculating the cost based upon our previous year's
772 experience - is to post the new fees on a yearly basis and
773 give a phase-in time before it would take effect. But I
774 understand you're also concerned, the difficulty that you may
775 have in projecting whether or not you're going to have that
776 particular fee imposed upon you because we may or may not have
777 an inspection.

778 **BILL NEWCOMB:** Bill Newcomb, North Safety Products. A
779 comment and a question. From a manufacturer's standpoint, the
780 maintenance fees, one of the issues that manufacturers have is
781 the sort of open-endedness of the fee structure as it's
782 delineated. For example, at this meeting for travel you only
783 see one person from North. How many people do you see from
784 NIOSH?

785 **DAVID BOOK:** We traveled a lot less further than you did,
786 but your point is taken.

787 **BILL NEWCOMB:** I assume that this is going through the
788 standard rule-making process rather than the expedited.

789 **DAVID BOOK:** That's correct.

790 **BILL NEWCOMB:** And in that case I'd like to know what
791 you're looking, the timetable.

792 **DAVID BOOK:** Can we identify a timetable here? This
793 should be the last preliminary event before it goes into the
794 formal rule-making procedure. There's probably about two
795 months of internal review. There will be a one month public
796 comment period once it's been published in the Federal
797 Register. So, we're three or four months out, at least, at
798 this point. But those are our first pass at that. This will
799 have been our second preliminary public meeting on that. So
800 we feel we've gotten through the first stage of that. And
801 then as part of the formal rule making there will be an
802 additional public comment period. Rich?

803 **RICH METZLER:** As a rule of thumb, can you use 18 months
804 after the time you go out with your first notice of proposed
805 rule making. That's what was done with the 1994 particulate-
806 filter standards. And it seems it took about 18 months to go
807 through the entire process once you have the standards
808 identified. And within 90 days, that standard hopefully will
809 be identified and published as a proposed rule. So that would
810 start the clock ticking and approximately will take anywhere
811 to about 18 months.

812 **JAY OSCHE:** Jay Osche, MSA. Questions on sampling. As
813 far as incoming inspection for purchased product. Will there
814 be any provisions to use the switching rules for normal,
815 tight, and reduced, and/or "S" levels that are currently

816 available, or even Z1.9 for variable data, destructive
817 testing, use of skip lotting are alternate plans, and how
818 would they be improved?

819 **DAVID BOOK:** Well, once - at this point the proposal for
820 sampling plans consist of the rules that are in 1916, which
821 include tightened and reduced inspection. Now some of the
822 skip-lot sampling and some of the advanced concepts that
823 you've advanced there are not included in that plan.

824 **JAY OSCHE:** Right. 1916 addresses in-process inspections.
825 But, for purchased items that you're inspecting on a dock
826 basis, you're no longer in-process, you're doing end-item
827 inspections. So will those techniques to complement a good
828 performance by suppliers be - still be able to be utilized,
829 for again, going to reduced, skip-lot, approved suppliers,
830 things of that sort?

831 **DAVID BOOK:** I suspect the answer to that is - when we
832 have final rule - the answer will be yes. If you can present
833 a reasonable recognized plan that meets the over all
834 requirements, we'll recognize it. Those over all requirements
835 at this point are a bit vague, I'm willing to admit.

836 **JAY OSCHE:** Looking at the current ANSI Z1.4, using the
837 "S" levels, those are essentially accepting with zero rejects,
838 so why would those not be allowed to still be used?

839 **DAVID BOOK:** I'm going to have to look at that

840 specifically, because my statistical experience doesn't extend
841 to the "S" levels. I'm going to have to go check.

842 **JAY OSCHER:** Otherwise, that would increase sample sizes
843 significantly and, of course, cost.

844 **KATIE DAVIS:** Katie Davis from MSA. I also have a
845 question on the maintenance fees. We have a number of
846 respirators that are what we consider inactive. We're no
847 longer asking for any approvals of any components or adding
848 anything to them. However, we're still supporting those
849 products in the field. We'd like a way perhaps for NIOSH to
850 separate those particular respirators out as inactive but
851 still valid approvals, and either have a smaller maintenance
852 fee or no maintenance fee because NIOSH is not going to be
853 doing any work on those and not going to be asked to evaluate
854 those respirators for any updates. And we don't - we'd like to
855 list those as inactive, but we don't want to list them as
856 obsolete. And we don't have any way to do that right now.

857 **BOB STEIN:** We always have an issue with this, because the
858 way you've described inactive, we would describe obsolete, in
859 a sense. Because any respirator - you know, you put it out in
860 the right form, the user buys it, we don't know what they do.
861 They put it on a shelf or something and it might set there for
862 a number of years, assuming it's not a type that has a
863 definite shelf life to it. If nothing has happened to that

864 and it's still in the right condition, they could still use it
865 as an approved respirator for whatever, whatever purpose they
866 originally purchased it for. The expectation with anything
867 that would be active, I guess by the way you're saying, is
868 that they could still buy new parts, new filter cartridges,
869 new gas cartridges, just whatever it was they needed to
870 continue use of it beyond whatever original supplies they
871 purchased. That would be active. So like - it only becomes -
872 only if there's a problem with it - then it has to become non-
873 approved. You know, we've identified that a certain type of
874 respirator, you know, something, something went wrong and we
875 can't define within, you know, we can't confine it to a
876 particular lot or anything like that. Then at that point it
877 has to become withdrawn, in other words rescinded, altogether
878 off the shelf. But suppose there's a twilight world there
879 where there are approvals that are kind of maybe still on your
880 books and kind of maybe still on our books where you're not
881 supplying parts for them. We don't know whether people in the
882 field still have them or not, but they're so doggone old, and
883 it's like the older - they're not like wine, the older they
884 get, they turn into something good. And it's like when we get
885 questions on them - it's difficult to answer, because those
886 records are old and it's difficult to find that information.
887 And those are the ones that we're really kind of aiming at to

888 try to say, you know, if you don't ever have any intent of
889 ever producing it again, you don't want to support it, we don't
890 make it, we don't make parts for it, some of those - we'd like
891 to see those kind of go away if it's possible. So I don't know
892 whether it's just a matter of definition of terms or what,
893 because we would still assume that if you're still making
894 parts for it, even if you're not selling new ones, it's still
895 supported, so people can still maintain that respirator in a
896 condition ready for use, so ...

897 **KATIE DAVIS:** Correct. But we wouldn't be asking for any
898 new components to be added to that inactive respirator. So if
899 we made a new change to a hose or to some component of that
900 respirator, we wouldn't be submitting that new hose or that
901 new canister or anything on that product. It just would not
902 happen. They would either have to buy something that existed
903 the way that approval originally was last approved, or it
904 wouldn't be supported. So in a sense these products are kind
905 of in a state of, you know, they're frozen there in time. And
906 for a period of time, I don't know how many years, but you can
907 send a customer replacement parts for something that would
908 break or they would lose or whatever. But if there's no way
909 to say these are inactive, you know, we're still --

910 **BOB STEIN:** No, they couldn't. They absolutely couldn't be
911 by the way you're defining them.

912 **KATIE DAVIS:** Then how would we ever audit a product like
913 that? We wouldn't be making it or producing it anymore.

914 **BOB STEIN:** So you're saying that you count on, even
915 though you're supplying replacement parts, you're counting on
916 them having certain components that you don't even have
917 anymore?

918 **KATIE DAVIS:** No.

919 **UNIDENTIFIED:** If you're not producing it, you wouldn't
920 have to audit it in your annual audit.

921 **DAVID BOOK:** And the annual audit is not of every single
922 respirator that you make, but a product line or a respirator.

923 **BOB STEIN:** And the other thing, on the maintenance fees,
924 is the maintenance fees were not designed to - they're not
925 anticipatory, so they don't cover any kind of cost of you
926 continuing to submit applications on them. So that's not the
927 way we thought of them. So removing them for that reason
928 wouldn't be a good reason to remove them.

929 **BODO HEINS:** Bodo Heins from Draeger again. My question
930 is, would it not be enough if a manufacturer has a certified
931 quality system and not to do all this annual audits and the
932 first sample of production, all these parts are covered by
933 sufficient quality system, so it should be enough if the
934 quality system is certified and agreed by NIOSH to believe in
935 this system. You don't understand?

936 **BOB STEIN:** There's some kind of a disconnect, because if
937 you were ISO, there's an ISO requirement to audit. And we're
938 not anticipating that - it's not going to be ISO and then
939 NIOSH and then, you know, so on and so forth.

940 **BODO HEINS:** We just have been audited and I said I would
941 have the door open for all the people which are auditing us,
942 the door would be really open the whole day. But my opinion
943 is that if the quality system of a manufacturer is certified
944 and agreed by NIOSH that it's good enough to make sure that
945 the products are following the quality requirements, why is it
946 then necessary to make an audit if the product is reading the
947 same as the quality system said?

948 **RICH METZLER:** A quality system is only one component of a
949 quality program. About two years ago when we were actively
950 working on this module, I recall data that we had that
951 suggested that 50 percent of the products that had been
952 recalled over the past few years were from companies who held
953 an ISO 9000 registration. So the registration to ISO in
954 itself does not guarantee quality products. That's why you
955 need these other elements, to add additional assurances.

956 **BODO HEINS:** The quality system normally makes sure that
957 any product is - which it's not sufficient, because the
958 quality system is going to the customer. If you do have
959 problems in the company and we are manufacturing something,

960 it's of anybody's interest, it's our own interest to reduce
961 this. But not to be published. Because those parts are never
962 to show up to the customer.

963 **BOB STEIN:** Okay. I mean the only way I know how to
964 respond to that, and I don't know whether it's getting at the
965 point you're driving at or not, is the way it stands right now
966 - we don't get out to see everybody every year. Okay? Some
967 people we see every year. We don't get out to see everybody
968 every year. And what we would like to increase - we'd like to
969 increase that frequency by adding other resources. By going
970 to an ISO standard it facilitates that, because now we can
971 find other auditors besides ourselves that understand your
972 quality system and that we all kind of speak the same
973 language. So we understand when they tell us, yes, it's up to
974 ISO standards. So that's good. Now we have to figure out,
975 well, how do we regard - how do we work that into, our system.
976 We don't want to be redundant, but we want to make - we want
977 to increase the oversight without being redundant and without
978 interfering with what goes on with ISO and making the most use
979 of those things that you're already, you know, you have some
980 expense involved with being ISO certified. We understand
981 that. We want to be able to make use of that as well. So it
982 works better for anybody who is ISO certified, it works better
983 for us too. Because that is part of the framework. But we

984 feel, and I think that's the point Rich was making, that there
985 are some requirements beyond ISO that we need to have
986 oversight of. That at least occasionally, we will still need
987 to check on those parts. So, yeah, an ISO audit's going to
988 have some validity and it's going to carry some weight, but we
989 still, you know, that's part of the details, is reckoning how
990 we make the best use of that so we're not out there all
991 tramping all over each other. You know, we don't want that
992 situation either, so, you know, one guy just leaves and then
993 the next one shows up. It's like you say, the door's always
994 open because you can't get it shut between one guy leaving and
995 the next guy coming in. And it's not a good use of our
996 resources either - to do something like that. So if we get
997 the details laid out right, hopefully - we'll still be coming
998 to see you. And there will be, you know, a fair amount of
999 face time involved, but it shouldn't increase to the point
1000 where you're never getting done with audits, at least not by
1001 our perspective.

1002 **JAY PARKER:** Jay Parker with the Bullard Company. I was
1003 interested in the question about the classification of
1004 defects. I'd like to just tell a little story. Back in the
1005 1970's when I was working for that legendary respiratory
1006 company, Puldisand (phonetic) Safety Equipment Corporation, we
1007 had a very well known consultant for quality assurance and

1008 control. And he said way back then that classification of
1009 defects is not a proper term, and the proper term is
1010 classification of attributes. So I just thought I'd favor you
1011 with that little story.

1012 Also I'd like to say that I was interested by the
1013 requirement on the QA manual every four years having to be
1014 submitted. Because it is a requirement now to submit
1015 significant changes. So maybe all you really need to do is to
1016 enforce the existing requirement. And finally I'd just like
1017 to say that I'm going to put on my ISEA hat for a minute and
1018 say that ISEA would like to work with NIOSH on the approval
1019 label format, which is something we have been working on for
1020 quite some time. So ISEA is still interested in pursuing that
1021 further. Thank you.

1022 **BOB STEIN:** I would like to respond before I sit down,
1023 because I might let Dave respond to part of that, but we kind
1024 of realize or are sensitive to the fact that defect is an
1025 anathema to anybody, because it's just something - it's like I'm
1026 checking a diameter, and just because that diameter might be a
1027 thousandth off, you know, I hate to call that a defect. And
1028 we're sensitive to that. So when we reviewed even the
1029 responses that we've got so far, in particular the terminology
1030 that was up there one, critical to quality characteristic,
1031 attribute, you know, whatever you want to call it, perhaps the

1032 terminology could be changed. And it might give a better - it
1033 might give everybody a better sense of what it is exactly that
1034 we're trying to do, you know, is to evaluate these things for
1035 how correct they are. Not evaluate them and if we find one
1036 that's horrible, get it out of there, you know, it's a defect.
1037 And we understand that. So if we - if the terminology helps
1038 improve the work, we're all for changing the terminology. Do
1039 you remember the other parts? The thing about the quality
1040 manual? We went around about that a few times.

1041 **DAVID BOOK:** We've added the every-fourth-year requirement
1042 to the quality manual because based on this year's experience
1043 doing audits, about 80 percent of the manuals we have are not
1044 - in the field - are not the manuals that are on file. Now,
1045 we're working on that actively to say, look, folks, get those
1046 in, there will be consequences. But at this point we felt
1047 this was required stop gap simply to say, alright, if sending
1048 you three letters isn't sufficient, here is a section of the
1049 law that says it's out-of-date, I don't have to dance, I don't
1050 have to refer to internal documents, just do it. And that's
1051 where we're at.

1052 **GORAN BERNDTSSON:** Goran Berdtsson from SEA. Are you
1053 intending to do (unintelligible) recognition agreement with
1054 organizations like (unintelligible) Australia? I mean we get
1055 audited by Inspec, we get audited by (unintelligible)

1056 Australia, we get audited by you guys. I mean I suggest we
1057 have one organization --

1058 **DAVID BOOK:** You're going to have to repeat that question
1059 at about half the speed you asked it. I got that you're
1060 working with Standards of Australia.

1061 **GORAN BERDTSSON:** Standards Australia. Inspec in Europe.
1062 Is this new system going to allow you to have --

1063 **DAVID BOOK:** This new system should allow you to do that,
1064 yes. And in the specific language that said "or recognized
1065 national body" is an attempt to address exactly your question.
1066 If you've got - you have ISO registrars in those countries,
1067 they are recognized through the ISO process, we will work with
1068 them and view their audit reports similarly to domestic audit
1069 reports, yes.

1070 **BILL WAWRZYNIAK:** Bill Wawrzyniak with Moldex-Metric. You
1071 made a comment where you related the ISO 9001:2000 to the
1072 17025. And I believe those two documents are very different.
1073 One actually pertains to laboratory testing type of facility,
1074 which of course NIOSH does. But it sounds like NIOSH is
1075 extending into areas above and beyond just laboratory testing.
1076 And there are elements within the ISO standard 9001:2000 such
1077 as management responsibility, continual improvement, et
1078 cetera. And I think it's important for any organization that
1079 goes out and audits another organization to have a basic

1080 understanding of those requirements in order to do an
1081 effective job. Now, I don't know what qualifications the
1082 auditors will have that come out to do these audits, whether
1083 it be lead auditor certificate or the facility is actually ISO
1084 approved or what. I'm not sure how that's going to work.

1085 **DAVID BOOK:** Yeah. There's no activity to get NIOSH as an
1086 organization into an ISO 9000 certified government agency.
1087 That's not out there. We have made efforts internally to have
1088 all of the auditors that go out have been trained in at least
1089 ISO 9000 in order to evaluate quality systems. We do a lot of
1090 internal training in addition. The past practices were that
1091 the same people who reviewed all the applications were the
1092 people who did the audits. So they were very, very familiar
1093 with both our systems and your quality systems. At this point
1094 we've segregated the audit function away from the application
1095 function, which gives us some independence, which is the other
1096 side of that. At this point the auditors that you see have
1097 been certified by someone like a certification. Some of our
1098 other auditors have been certified by other folks in the past.
1099 But they all have background. And we have the same
1100 requirements for the folks that we're contracting with. So
1101 you're not going to get an unqualified auditor, not through
1102 us. We could discuss those details if you want, but I'm quite
1103 comfortable with the level of knowledge and skill of the

1104 auditors that we're sending out. If any of you have alternate
1105 experiences, see me and we'll see what we can do.

1106 **BILL WAWRZYNIAK:** It also seems kind of redundant to if a
1107 company's ISO 9001:2000 approved they just go through let's say
1108 a three day continuum assessment audit to have NIOSH come and
1109 basically go through the same routine and charge that as well,
1110 since.

1111 **DAVID BOOK:** Right. And that's not our intent. That's not
1112 our intent. The difficulty we have is that the ISO
1113 requirements cover maybe 85 percent of what we need to know.
1114 We want to always use that 85 percent. There are about 15
1115 percent of what we need to know which are NIOSH considered
1116 requirements, specific test procedures, specific recording
1117 requirements. Now, if you've got a very bright quality
1118 program for registrar, one of the requirements of ISO
1119 9000:2000 is that all government requirements must be met. If
1120 you're aware of that and you write your quality system such
1121 that they review every time they visit all of the NIOSH
1122 specific requirements in general, we should accept that and
1123 say they looked at everything we want to see. Now if they
1124 don't, then we don't have a choice but to say we have to
1125 occasionally come out here and look at what we're required to
1126 look at by law. As these things evolve, I suspect you folks
1127 will get very bright and learn to do it that way. We'll see

1128 you less often. But we still have to come visit occasionally.

1129 Okay?

1130 **BILL WAWRZYNIAK:** My final comment is, this is the second
1131 meeting I've attended. And I was thinking about it the other
1132 day. I'm the director of quality assurance for Moldex-Metric.
1133 And everything you're proposing here seems to be an extension
1134 of my department, if you will. I'm saying gee-whiz, we're
1135 doing these internal audits, we're doing first article. Why
1136 do I need someone coming in kind of big brother overlooking to
1137 make sure we're doing our job. The whole thing with ISO is to
1138 continue improvement, and I'm constantly doing that daily.
1139 And you mentioned about the services that you provide. Are
1140 there any alternatives to really not asking for the service if
1141 you really don't need it?

1142 **DAVID BOOK:** I don't think we've evolved that far. Rich,
1143 did you have a comment?

1144 **RICH METZLER:** The question came up several times about
1145 redundancy of manufacturing site audits. In the philosophy of
1146 creating this program, we expected to continue NIOSH audits or
1147 NIOSH authorized representative audits at around the same
1148 number we do today, which is about 25 percent of the
1149 manufacturing sites every year. Any additional audits that we
1150 would expect to use, those audits would come from the ISO
1151 registered authority who has audited you. Unless we have

1152 reason to increase our surveillance because of nonconformance
1153 or other indicators that we may have about your quality
1154 record.

1155 **DAVID BOOK:** Okay. As Rich readily points out, that
1156 procedure would allow your workload not to increase not at all
1157 or significantly, but would allow us to get information back
1158 on a much more frequent basis by using those ISO auditors.
1159 Okay? So I think maybe he outlined the goals of frequency a
1160 little better than we have at this point. But we're in
1161 consistent agreement with that.

1162 **BILL WAWRZYNIAK:** Bill Wawrzyniak, Moldex-Metric. One of
1163 the parts of the ISO standard is internal audits of your
1164 facility. You have team members who they've gone through
1165 training and you do internal audits periodically to assess
1166 your system and make sure you're still in compliance. Does
1167 NIOSH have any programs like that internally?

1168 **DAVID BOOK:** We're working on them. One of - I just
1169 mentioned we had separated out the quality audit group from
1170 the application group. One of the reasons for that was
1171 internal so that we kind of have an independent body to do
1172 that. Seeing no other comments - seeing no other comments, I
1173 take this meeting to be adjourned. Thank you.

1174 (Meeting adjourned.)

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NIOSH/NPPTL PUBLIC MEETING - OCTOBER 16, 2003 - QA MODULE

STATE OF WEST VIRGINIA,

COUNTY OF MONONGALIA, TO-WIT:


I, Carol A. Ashburn, Certified Court Reporter and Notary Public within and for the County and State aforesaid, duly commissioned and qualified, do hereby certify that the foregoing proceeding was taken by me and transcribed to the best of my ability and for the purpose specified in the caption hereof.

I further certify that I am neither attorney or counsel for, not related to or employed by, any of the parties to the action in which this deposition is taken, and further that I am not a relative or employee of any attorney or counsel employed by the parties hereto or financially interested in the action.

I do further certify that the transcript within meets the requirements of the Code of the State of West Virginia, 51-7-4, and all rules pertaining thereto as promulgated by the Supreme Court of Appeals.

My Commission expires October 15, 2011.

Given under my hand this the 13th day of November, 2003.


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