Hall Declaration Exhibit E

UNITED STATES DISTRICT COURT FOR THE NORTHERN DISTRICT OF CALIFORNIA SAN FRANCISCO DIVISION

ROBERT JACOBSEN,

Plaintiff,

v.

No. C-06-1905-JSW

MATTHEW KATZER, et al.,

Defendants.

DEPOSITION OF

HOWARD G. PENNY

FRIDAY, SEPTEMBER 11, 2009 12:03 P.M.

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```
1
      developed simultaneously.
 2
                    Okay. Of the decoder definitions, which
 3
      ones did you work on?
 4
                    It -- they got split up into basic groups
 5
      that were similar, one of them being the steam,
 6
      QSI steam.xml. There was QSI diesel.xml. There's
 7
      QSI electric. And quite honestly, I don't have it in
 8
      front of me, so I don't remember. There was about four or
      five different ones. Articulated, I believe, is one.
 9
10
                    Okay. If you think of the others as we're
11
      talking, just let me know, and you can add to your
12
      testimony.
13
               A
                    All right.
14
                    Of those -- those were the QSI. Have you
15
     contributed any other files, aside from decoder
16
     definitions based on QSI decoders?
17
               A
                    Sure.
18
                    And what other decoder definition files have
19
     you --
20
                    I believe that I actually submitted one or
21
     two for a new Digitrax decoder.
22
                    Do you remember any --
23
              A
                   I don't remember specifically which ones
24
     they were.
25
                   And any other decoder definition files?
```

1	A No.
2	Q Okay. But your decoder definition file
3	needs to be able to interface with the DecoderPro?
4	A Correct. I mean, I created the format that
5	JMRI uses to read it.
6	Q Oh. Got it. Okay.
7	A And therefore, the DTD and the actual
8	decoder files need had to be designed so that they
9	would feed the information into JMRI for what the format
10	that I had decided within the program itself to
1.1	understand.
12	Q Okay. And what considerations well,
13	actually, we'll step back a moment, because I'll talk with
14	you a little bit more about the QSI file in a few minutes.
15	Now, you said that you had done some other
16	decoder definition files, in particular Digitrax.
17	Oh, actually, let me ask you: You said that
18	you had done a QSI diesel and perhaps a QSI articulated
19	steam. Do you know how many hours it took for you to
20	create those?
21	A The diesel did not take as long as the
22	steam, but it took more than the electric.
23	Q Okay. Can you give me an estimate?
24	A I would say total time on the the diesel
25	may have been 25 to 30 hours.

1 come from a manufacturer. And what CVs they're in, where 2 they're -- if you want me to get more specific about QSI, 3 it becomes quite complex because the -- it also represents their index into a matrix of how to manipulate many of the 4 5 functions, most of them being sound-based. 6 Okay. We'll get to that in a moment, but what is -- what would you say the purpose of a decoder 7 8 definition file is? 9 Basically, to provide default information and an understanding for the program to know what CVs are 10 11 available for a particular decoder and what the -- the 12 program's got to read the data from somewhere, either from 13 a definition file or from a binary database. It's got to 14 have the information to do it. 15 Okay. And that's what the decoder definition file does? It gets read by a computer program? 16 17 A Correct. 18 Okay. And it displays that information in 19 the computer program? 20 Yes, in the user interface. 21 0 Correct. Okav. 22 What is the purpose of a -- or do you know 23 what a -- do you know what a QSI manual is? 24 A Yes. 25 Let's see. A QSI NMRA DCC Reference Manual Q

1 for QSI Quantum HO Equipped Locomotives. You know what 2 that is? 3 Yes, I do. 4 0 What is the purpose of that manual? 5 A The purpose of the manual is to explain how to utilize the functionality of the decoder. 6 It gives an explanation of how the matrix -- well, let me back up just 7 8 a little bit. 9 The NMRA set forth "X" number of 10 configuration variables to be developed, and it was to be a industry standard. They're -- in their short-sighted 11 way, just like IBM was when nobody thought that a computer 12 13 would ever need more than 64K of memory -- it's far too 14 limited with the capability of today's electronics. 15 the QSI manual shows their methodology of adding another 64,000 variables in the space of 14 CVs. 16 17 Is the -- are the CVs -- do the CVs appear 18 in the -- actually, let me ask you this: Let's take that decoder definition file and the QSI manual. Are the two 19 20 interchangeable? 21 A No. 22 If you took a page from a QSI manual and scanned it, digitized it, could you put it in a decoder 23 definition file and have the decoder definition file work? 24 25 No. There's no comparison.

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1	Q And why is that?
2	A The
3	Q And for the record, you're reaching for your
4	copy of
5	A I actually have my original copy of the
6	Quantum NMRA DCC Reference Manual for QSI Quantum HO
7	Locomotives. The the manual is a document pretty much
8	designed for programmers or written by programmers. A
9	general layman is probably not going to understand it.
10	But it gives an explanation of how the programming of the
11	decoder works and the intricacies of it. And there are a
12	few examples in there of how you would do this, how you
13	would program a particular configuration variable. But
14	no, there's there's virtually nothing in it that could
15	be scanned or cut-and-paste and it become a decoder file.
16	Q Okay. Now, about you're familiar with
17	QSI decoders?
18	A Yes.
19	Q Do they have sound recordings on them?
20	A Yes.
21	Q Are these sound recordings based on
22	recordings from actual trains?
23	A To my knowledge, they are.
24	Q Let's see. Now I'm going to step over to
25	MR. JERGER: Can you speak up, Victoria?

to steam engines."

1

2

3

4

5

6

7

8

9

10

11

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13

14

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16

17

18

19

20

21

22

23

24

25

And my response: "This is good to know. may help to reduce the importance of a new, quote, exclude, unquote, attribute for the particular model. I have now broken the QSI Quantum decoders into separate families, such as steam and diesel, etc. This way each family is in a separate file and can include just those CVs that family supports. This, in turn, makes it possible to customize the programmer interface for a particular group.

"I've already had to include an 'infoOnly' attribute for certain CVs that cannot be changed, such as CV 53.1.0. My experience shows that not only can it not be changed, but it can't be read as well, causing a timeout from the programmer. This attribute allows the programmer to skip CVs that cannot be read during a 'read all CVs' operation."

And then I respond to the -- him looking for the supported CVs or non-supported, "This may take a little, but I'll start on Saturday."

"Wow, that would be fantastic. I really appreciate your help."

I want to ask you about one statement. You said your -- you said that you had broken the QSI Quantum decoders into separate families, such as steam, diesel, et

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Howard G. Penny

```
1
      cetera?
 2
              A
                    Yes.
 3
                    Now, what did you mean by that?
 4
                    Basically, they are broken into separate --
               A
 5
     the -- the families are the decoder files. There's a
 6
      steam file, and it lists all the decoders, at -- at this
 7
      time, that were for steam engines.
 8
                    Okay. So are there multiple -- are there
 9
     multiple QSI steam decoders?
10
                    Oh, yes. There's quite a few.
11
                    And are they included in the decoder
12
     definition QSI steam file?
13
                    I thought there was -- yes. All of the --
14
                    Which exhibit are you looking at right now?
15
                    I am -- I'm looking back at Exhibit
16
     Number 7. I mean, he had sent me a list. Under "Steam"
17
     there's the Hudson, the Mikado, M1A Mountain, the
18
     ON30-C/16 standard, one with Christmas. There's a
19
     Pennsylvania Railroad-J1, a Union Pacific Mountain, a K4.
20
     There's quite a few. Let's see -- one, two, three --
21
     well, it's right easy to tell. There's 14 of them.
22
              0
                    Okay. And are those included in one family?
23
              A
                   Yeah, yeah.
24
              0
                   Was that a product of a decision that you
25
     made?
```

```
1
                    Yes, to keep them together -- yes.
 2
                    All right. Did you get a response from
               0
 3
     Mr. Pruss to the e-mail, Penny Deposition Exhibit 10?
 4
              A
                    I'm sure I did.
 5
                    MS. HALL: Okay. I'm asking the court
 6
         reporter to hand Penny Deposition Exhibit Number 11.
 7
         This is Bates-stamped RGJ HP.00000014 through
 8
          .00000019. And Mr. Penny is looking at this exhibit.
 9
              BY MS. HALL:
10
                   Mr. Penny, let me know when you have
     finished reviewing this exhibit.
11
12
              A
                   Oh. Yes, I have.
13
                   Mr. Penny, do you recognize this e-mail?
              0
14
              A
                   Yes, I do.
15
              0
                   Why do you do -- why do you recognize it?
16
                    It is a response to -- how far back? --
     Exhibit 9, basically. It says, "Do you have a list of
17
18
     products and range of versions?" And back in Exhibit 9,
     he said, "I will send you such a list on Saturday or
19
20
     Sunday." And this is a response to that e-mail, saying
     "See the attached file." And gives a little bit further
21
22
     information about new Version 6.
23
                   Okay. And what else does it say in
24
     Mr. Pruss's e-mail?
25
                   Okay. He is responding to -- had to -- the
```

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1 .00000019. And after you received this information, what 2 did you do with it? 3 I took the information out that was 4 relevant, which the model numbers was important. I began 5 to go back and just update and add particular models to 6 the various decoder definition files, so that the specific 7 information for each of these would be available to the 8 decoders. 9 Okay. Did you respond to Mr. Pruss's 10 e-mail? 11 I'm sure I probably did. A 12 MS. HALL: Okay. I would like to ask the 13 court reporter to hand Penny Deposition Exhibit 12 to 14 Mr. Penny. This is marked RGJ HP.00000020, one page. 15 And Mr. Pruss has -- or Mr. Penny has that exhibit in 16 hand. 17 THE WITNESS: Yes, I remember this. 18 BY MS. HALL: 19 Why do you -- why did you remember it? 20 It's my response to -- thanking him for --21 for sending me the data and also responding to his 22 referring me to the Version 3 DCC reference manual. 23 Okay. And what -- when did you send this e-mail? 24 25 April 19th, 2005, at 1:15 in the afternoon.

1 And did this e-mail reflect what was on your 2 mind at the time you wrote it? 3 Yes. A 4 Do you know if Mr. Pruss responded to you? 5 I would imagine so, because of my comment. 6 MS. HALL: I'd like to ask the court 7 reporter to hand over Penny Deposit Exhibit 13. 8 That's Bates-stamped RGJ HP.00000024. 9 Scott, for your own reference, I'm skipping 10 over three pages, so you can set those other pages 11 And Mr. -- and it's -- it is two pages long. 12 It's -- this exhibit goes to .00000025. Mr. Penny is 13 reviewing this exhibit. 14 BY MS. HALL: 15 Mr. Penny, let me know when you're finished. 16 Yes, I remember it. 17 And why do you remember this? 18 Well, it was my response -- his response to 19 me telling him that my version of the 3.0 manual and the 20 one -- the link that he sent me to are the same. 21 responds, "Oops. The documentation is incorrect. 22 part about the Outputs 1 through 4 being preassigned and 23 cannot be changed is no longer correct. 24 "This incorrect statement slipped through my

own several iterations of proofreading this manual."

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1 MS. HALL: I'm going to hand -- ask the 2 court reporter to hand Penny Deposition Exhibit 3 Number 15. That is RGJ HP.00000028 through 4 RGJ HP.00000029. 5 For your reference, Scott, there's a page 6 that I'm skipping. That's Number 27. I'm not going 7 to refer to that. 8 BY MS. HALL: 9 And, Mr. Penny, you're reviewing this e-mail 10 Let me know when you're finished reviewing it. right now. 11 A (Witness nods head.) 12 Mr. Penny, do you recognize --0 13 MS. HALL: -- or, for the record, Mr. Penny 14 shook his head -- or nodded his head. THE WITNESS: Yes, I recognize this. 15 16 BY MS. HALL: 17 0 Mr. Penny, do you recognize this? 18 Yes. A 19 0 And why do you recognize it? 20 It -- it is a follow-up from the last 21 message, Number 14 Exhibit. 22 Penny Deposition Exhibit Number 14? 23 Correct. His -- he has copied part of it in 24 there: "I had mentioned there were several typos in the 25 manual as well. I had sent them -- sent him a list, and

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```
he never got back." Blah blah blah.
 1
 2
                    "Yes, please send me the list. I can then
 3
      remind Fred about the changes needed."
 4
                    And who is "Fred" in this e-mail?
 5
                    I assume that he's referring to Frederick
 6
      Severson.
                    And did you -- when was this sent to you?
               0
 8
               A
                    This was sent May 7th, 2005, at 3:54.
 9
               0
                    Did you receive a response to this e-mail?
10
                    An additional response?
              A
11
               0
                    Yes.
12
              A
                    I would assume so. I mean -- did I respond
13
     to him after this or --
14
                    Yes.
15
              A
                    Yes.
16
                    MS. HALL: Okay. I'm asking the court
17
         reporter to hand Penny Deposition Exhibit Number 16 to
18
         Mr. Penny. Mr. -- this is Bates-stamped
19
         RGJ HP.00000028 through RGJ HP.00000029.
20
         Mr. Penny has the exhibit in his hand, Penny
21
         Deposition Exhibit Number 15. He's also looking at
22
         Penny Deposition Exhibit Number 14. And he is
23
         reviewing Penny Deposition Exhibit Number 15.
24
              BY MS. HALL:
25
                   Let me know, Mr. Penny, when you're finished
```

1	supply me the data that I wanted to do it and do it
2	correctly and the most with the most coverage, I
3	felt that they were encouraging me to do this.
4	BY MS. HALL:
5	Q Let me ask you this: If you if QSI had
6	e-mailed you or contacted you and objected to your
7	(Loud beeping from phone.)
8	MS. HALL: Scott, are you there?
9	MR. JERGER: Yes.
10	MS. HALL: Okay.
11	BY MS. HALL:
12	Q If QSI had objected to your use of QSI data
13	and QSI decoder definition files, would you have stopped?
14	A Oh, absolutely yes.
15	Q I noticed in one of your earlier e-mails
16	that it was a post to a Yahoo! Groups Listserv. Is my
17	memory correct about that? It may have been Exhibit
18	Number 5 or something.
19	A Number 6.
20	Q Okay. Exhibit Number 6. Yes. It might
21	refresh my memory. Is that a that's a post to a Yahoo!
22	Groups Listserv?
23	A Yes, it was on Yahoo! Group.
24	Q Can anyone in the public access this
25	Listserv?

1	A I have no idea.
2	MS. HALL: Okay. I'm going to hand to
3	Mr I'm going to have Penny Deposition Exhibit
4	Number 38 I'm going to hand it to Mr. Penny. This
5	is Jacobsen Declaration Exhibit AD. I'm handing this
6	exhibit to the witness right now.
7	Scott, do you have that exhibit?
8	MR. JERGER: Yes.
9	BY MS. HALL:
10	Q Okay. Mr. Penny, please review that
11	exhibit, and when you're done, let me know.
12	A Okay.
13	Q Mr. Penny, do you know what that exhibit is?
14	A Yes.
15	Q What is that exhibit?
16	A It is one of the first revisions of the QSI
17	files, just one for the QSI electric family of
18	locomotives.
19	Q Did you use the information that Mr. Pruss
20	sent to you to create that file?
21	A Some of the information that he sent me is
22	used in this; but no, I did not use it to create this
23	file.
24	Q Just to get back to some earlier questions
25	that I was asking you did create this file, just to

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```
1
                     Yes, yes. I mean, it's -- yes, it is my
 2
      file from scratch.
 3
                     Did you make choices when you created this
 4
      file?
 5
               A
                    Yes.
 6
                    MR. JERGER: Object to the form of the
 7
          question.
 8
               BY MS. HALL:
 9
                    What were those choices?
10
                    Most of the decoder files have a basic
11
      format, such as for a Digitrax decoder. Where my choices
      came in was when it really comes down to the QSI CV.PI.SI
12
13
      formatted items.
14
                    And what does it -- you said that you made
15
      some decisions related to that?
16
                    Well, I designed the --
               A
17
                    MR. JERGER: Object to the form of that
18
         question.
19
              BY MS. HALL:
20
                    Did you make decisions related to that file
21
     related to the CV.PI.SI?
22
              A
                    Yes.
23
                   And what were they?
24
                   One would be exactly how it should be
     structured so that it was somewhat similar to a typical
25
```

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decoder file that JMRI had already been making, and would 1 2 support all of the information that I wanted the JMRI DecoderPro to be able to use to gain information and to 3 4 program the decoders. 5 Is the QSI chip an easy chip to program? 6 Comparatively to other -- no, it is not. A 7 On the range of complexity, where would you 8 put it -- from, say, 1 to 10? 9 Okay. A Digitrax would be about a 3. 10 would be an 8, 8-1/2. 11 How long did it take for you to create this 12 file? Over how long a period of time? 13 Quite a while. I started on the initial design in the first part of March and did not get a truly 14 good, functioning file and format until late May, early 15 16 June. 17 And you were talking about including some CV.PI.SI information in this file. Which CVs does that 18 19 relate to? 20 Well, if I'm not mistaken, it's Number --CV 49 through 64. And the -- the whole concept of the 21 two-dimensional matrix was to be able to expand that --22 just those few CVs to provide up to 64,000 possibilities. 23 24 And when you say "possibilities," what do 25 you mean?

1 COURT REPORTER: I'm sorry. Did you say 2 something? 3 MR. JERGER: I did. I objected to the form 4 of that question. 5 BY MS. HALL: 6 Let me ask it again. Is there only one decoder in this -- does this file represent only one QSI 7 8 decoder? 9 Yes, this one does. 10 So this does not represent a family of 11 decoders? 12 Well, it's what I had defined as a family of 13 decoders. 14 And can you explain that a little further? 0 15 There -- there are some unique properties to -- to an electric that only electric locomotives would 16 have. Now, if QSI made a decoder that was specific to, 17 18 say, a traction trolley car, it would go in this file because it would be an electric, and it would have 19 similarities to the other electrics; whereas all the 20 diesels are similar, all the steam are similar, with the 21 exception of articulated, which adds some complexity. So 22 this was my breakdown of the families of -- of decoders. 23 24 Okay. The other files that you created, do 25 they have only one decoder in them?

1 No, the rest have quite a few decoders in 2 them, with the exception, if I'm not mistaken, of the turbine. And I think that the Veranda was the only 3 locomotive that was a turbine power that has been done. 4 5 Okay. The terms that you select in this, are there any limits -- all right. Let me strike that. 6 7 You stated that there -- that you included 8 the CVs in this file? 9 A Yes. 10 Are there limits to information on the CVs 11 that can be put in this file? 12 A I --13 0 Do you understand the question? 14 A No, not exactly. 15 Okay. Take an example: Any QSI-particular 0 16 chip, what is on that chip? 17 It's -- it's got the firmware, flash memory. A Bound to have some RAM as well. It's got all the sound 18 19 files. 20 Does it have CVs on them? 0 21 A Yes. 22 Does it have primary indexes on them? 0 23 I mean, yes, the -- the structure of A Yes. the -- of the information that -- that's in the firmware 24 25 would all be in the decoder chip.

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1 Does that structure limit the way you create 2 your file? 3 I -- I'm still --A 4 Do you understand the question? 5 Α No, I'm not exactly sure. 6 It doesn't -- it doesn't limit the structure 7 of the decoder file. It -- because I could have added all 8 types of CVs that were not supported, and I could have 9 added superfluous information in here, but I didn't see any reason to do that. That's why -- that's why they're 10 broken into families, is this file is much smaller because 11 it doesn't incorporate everything that QSI makes. 12 13 Was that a product of a choice of yours? 0 14 A Yes. 15 0 Okav. The CV.PI.SI format --16 A Right. 17 -- if you want to program a particular CV.PI.SI, do you have to -- do you have to program it in 18 19 a -- that particular format? 20 No, it's not in that particular format; it's not CV.PI.SI. In reality, what happens in the program is 21 22 PI is selected. It is programmed with a number, which would be the PI number that you see here (indicating). 23 Then the SI is programmed with a number. The CV itself is 24 25 programmed with the data.

1 BY MR. JERGER: 2 You can answer the question. 3 A combination of the reference manual and --4 Okay. But Victoria wants us to be really 0 5 specific about that. What reference manual? 6 MS. HALL: Excuse me. He did not finish his 7 answer. I object. 8 THE WITNESS: Now, I will have to go back 9 through all my e-mails with Gerry Pruss and dig up 10 specifically which of the data files that he sent me 11 that had the correct order and the functions that were 12 available. So it's a combination of what was in the 13 reference manual, which was extremely limited. It's the information that I got from Gerry that allowed me 14 15 to put these in their particular order and leave the 16 ones out that were not necessarily used in a 17 particular spot. 18 BY MR. JERGER: 19 Okay. It was a combination of the reference 20 manual and what else? 21 The data files I received from Gerry Pruss. 22 And those are the data files attached to the 0 23 e-mail exhibits that we discussed earlier today? 24 A That is correct. 25 Okay. And when you say "reference manual," 0

Page

for a tape change. 1 MR. JERGER: All right. 2 VIDEOGRAPHER: Off the record at 5:06 p.m. 3 (A short recess was taken.) 4 VIDEOGRAPHER: Back on the record at 5 5:07 p.m. 6 BY MR. JERGER: 7 Okay. So where we left off: QSI electric, 8 QSI diesel, QSI steam, QSI articulated steam, and QSI gas 9 10 turbine? Correct. 11 A Those are the five QSI files you created for 12 13 JMRI? That is correct. 14 Okay. But are they all derived from the 15 same material that we talked about with QSI electric? 16 Yes, with the addition of -- well, they were 17 originated -- originally created from what I had gleaned 18 from my own experience, because I had bought a big 19 Broadway Limited locomotive and I gained some of the 20 default information from it and then had questions that 21 were not available from the reference material, which 22 prompted me to -- to ask in the Yahoo! Groups if anybody 23 could help me out by giving me the additional information 24 that I wanted, which is how I wound up with correspondence

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MR. JERGER: What? 1 BY MS. HALL: 2 Go ahead and answer the question, Mr. Penny. 3 MR. JERGER: Don't qualify. You either need 4 to say "yes" or "no." 5 MS. HALL: As to this question. 6 BY MS. HALL: 7 Mr. Penny, please answer the question. 8 Would you repeat the question? 9 Is there -- for CV 53, are there -- is there 10 a line that says "Output"? 11 MR. JERGER: Object to the form of the 12 13 question. THE WITNESS: Yes. 14 BY MS. HALL: 15 Okay. How many -- or are there sections 16 following that line? 17 MR. JERGER: Object to the form of the 18 19 question. THE WITNESS: Yes, the -- there are -- there 20 are lines of code after the label "Output." 21 BY MS. HALL: 22 Okay. Is there more than one label called 23 "Output" for CV 53? 24 MR. JERGER: Object to the form of the 25

```
1
         question.
                   THE WITNESS: There -- CV 53 controls up to,
2
         it appears, at least 14 outputs. So yes, CV 53 would
3
         be repeated 14 times for the various outputs.
4
              BY MS. HALL:
5
                   Thank you. Does that 14 repetitions appear
6
7
     in the OSI manual?
                   No. I mean, it -- their -- their
8
              A
9
     organization was totally different.
                   Okay. Thank you.
10
                   Now, before this deposition, have you had an
11
     opportunity to review or -- I'm sorry. Let's strike that.
12
                   Mr. Jerger asked you a few questions about
13
     Exhibit 107 as to the assignment that you assigned.
14
                   MR. JERGER: I thought you meant to strike
15
16
         that.
                   MS. HALL: Just in case it's not.
17
                   THE WITNESS: Okay. Exhibit 107?
18
19
              BY MS. HALL:
                   Yes, the assignment. And you have the --
20
21
     that document in front of you?
22
              A
                    Yes.
                    MR. JERGER: I move to strike it too, then.
23
24
                    COURT REPORTER: I'm sorry?
                    MS. HALL: He's moving to strike as well.
25
```

Raleigh, North Carolina 27624-8475

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-	
1	Q Okay. Is there another CV after that on
2	this page?
3	A Yes, 66.
4	Q And is there another CV after this?
5	A 67.
6	Q Is there another CV after this?
7	A 95.
8	Q Is there another CV on this page after
9	CV 95?
10	A Yes, 51.
11	Q Okay. Is there another CV on this page
12	after that?
13	MR. JERGER: We can all read this document,
14	Victoria. Why don't you just ask the question?
15	THE WITNESS: Yeah. Well, there's 52.0
16	through 52.37. Not I mean, with absences of
17	certain numbers.
18	BY MS. HALL:
19	Q Okay. And at the bottom is there another
20	CV?
21	A 53.
22	Q Okay. So what we have here is CV 46, 62,
23	64, 66, 67, 95, 49, 50, 51, 52, and 53. Is that in
24	numeric order?
25	A No.