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Metallurgy and Reactor Fuels Subcommittee

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1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION

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4 ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
5 (ACRS)

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7 METALLURGY AND REACTOR FUELS SUBCOMMITTEE

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9 TUESDAY

10 DECEMBER 2, 2014

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12 ROCKVILLE, MARYLAND

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14 The Subcommittee met at the Nuclear
15 Regulatory Commission, Two White Flint North, Room
16 T2B1, 11545 Rockville Pike, at 1:00 p.m., Peter C.
17 Riccardella, Chairman, presiding.

18 COMMITTEE MEMBERS:

19 PETER RICCARDELLA, Subcommittee Chairman

20 RONALD G. BALLINGER, Member

21 DENNIS C. BLEY, Member

22 DANA A. POWERS, Member

23 JOY REMPE, Member

24 GORDON R. SKILLMAN, Member

25

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1 ACRS CONSULTANT:

2 WILLIAM J. SHACK

3

4 DESIGNATED FEDERAL OFFICIAL:

5 CHRISTOPHER L. BROWN

6

7 ALSO PRESENT:

8 CHAKRAPANI BASAVARAJU, NRR

9 DAVE GERBER, Structural Integrity Associates

10 BOB HARDIES, NRR

11 ALLEN L. HISER, JR., RES

12 K.R. HSU, NRR

13 PAT PURTSCHER, NRR

14 DAVE RUDLAND, RES

15 GARY STEVENS, RES

16 ALEXANDER TSIRIGOTIS, NRO

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P R O C E E D I N G S

1:03 p.m.

CHAIRMAN RICCARDELLA: Meeting will now come to order. This is a meeting of the Metallurgy and Reactor Fuels Subcommittee. I'm Pete Riccardella. I'm chairing the meeting.

ACRS members in attendance are Dick Skillman, Dennis Bley and Joy Rempe. We also have our consultant, Bill Shack, Chris Brown of the ACRS staff is a designated federal official for this meeting and I am expecting Ron Ballinger and Dana Powers to come in shortly.

The purpose of this meeting is to receive a briefing on the regulatory guidance for evaluating the effects of light water reactor coolant environments on the fatigue analysis of metal components, proposed Reg. 1 to Reg. Guide 1.207.

We'll hear presentations from the representative of the Office of Nuclear Regulatory Research. The subcommittee will gather information, analyze relevant issues and facts and formulate a proposed position and action as appropriation for deliberation by the full committee.

This meeting is open to the public. The rules for participation in today's meeting were

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1 know, go to the Section 11 and NDE qualification and
2 acceptance standards tied into all that. Section 3
3 hasn't figured out how to do that part of it yet. So
4 the flaw tolerance analysis part is okay.

5 But what they're postulating for initial
6 flaw size and where it comes from and how it ties into
7 the NDE world and all that, they haven't figured that
8 out yet.

9 So in my opinion, that's probably going to
10 be harder than the technical flaw tolerance part of the
11 code case and they just haven't done that. So it's
12 probably got a ways to go. The strain rate code case
13 I think I just saw a presentation two weeks ago that's
14 up to draft rev 18 or something ridiculous. It's still
15 going through the working group.

16 I expect it'll probably be issued in, like,
17 a year - something like that, and then I think their
18 fatigue action plan that they have for Section 3 says
19 once we get all these done we want to get the regulator
20 to endorse them.

21 Then we're going to put them in a
22 nonmandatory appendix in Section 3 in which case then
23 they're - the other issue with these code cases is
24 there's nothing that would point you to use them.
25 There would have to be - if they put it in a nonmandatory

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1 appendix now they'd have to put some invoking words into
2 Section 3 as to what would ever get you that appendix,
3 and I think where it's NB-3121 or whatever the section
4 was I cited here you just add a sentence there and say
5 one way to address these effects is in the appendix and
6 then they have it covered. But that's quite a ways off.

7 CHAIRMAN RICCARDELLA: Okay. Thank you.
8 So do we have any comments from anybody else in the room?
9 Okay. Could we get the - it's open. Okay. So we do
10 have, I understand, some people on the bridge line.

11 I wonder if we have any comments from
12 people on the bridge line. Would somebody out there
13 just say hello so I can confirm that it's open?

14 PHONE PARTICIPANT: Hello. No comment.

15 CHAIRMAN RICCARDELLA: Thank you. Okay.
16 So I guess with that the topic is closed. I think we're
17 going to - this is kind of a preliminary review in
18 parallel with it going on for public comment.

19 I think we'll be addressing the issue when
20 we get any comments back and I don't know if we'll take
21 any full committee action on it.

22 But we will certainly hear from you again
23 once you have the comments back. Okay. Thank you.

24 MR. STEVENS: Thank you.

25 CHAIRMAN RICCARDELLA: Meeting is