

**Official Transcript of Proceedings**  
**NUCLEAR REGULATORY COMMISSION**

Title: Advisory Committee on Reactor Safeguards  
Kairos Power Licensing Subcommittee

Docket Number: (n/a)

Location: teleconference

Date: Wednesday, June 26, 2024

Work Order No.: NRC-2915

Pages 1-7

**NEAL R. GROSS AND CO., INC.**  
**Court Reporters and Transcribers**  
1716 14th Street, N.W.  
Washington, D.C. 20009  
(202) 234-4433

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

DISCLAIMER

UNITED STATES NUCLEAR REGULATORY COMMISSION'S  
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

The contents of this transcript of the proceeding of the United States Nuclear Regulatory Commission Advisory Committee on Reactor Safeguards, as reported herein, is a record of the discussions recorded at the meeting.

This transcript has not been reviewed, corrected, and edited, and it may contain inaccuracies.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS

1323 RHODE ISLAND AVE., N.W.

WASHINGTON, D.C. 20005-3701

(202) 234-4433

[www.nealrgross.com](http://www.nealrgross.com)

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

+ + + + +

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

(ACRS)

+ + + + +

KAIROS POWER LICENSING SUBCOMMITTEE

+ + + + +

WEDNESDAY

JUNE 26, 2024

+ + + + +

The Subcommittee met via Teleconference,  
at 10:00 a.m. EDT, David A. Petti, Chair, presiding.

COMMITTEE MEMBERS:

- DAVID A. PETTI, Chair
- RONALD G. BALLINGER, Member
- VICKI M. BIER, Member
- VESNA B. DIMITRIJEVIC, Member
- GREGORY H. HALNON, Member
- CRAIG HARRINGTON, Member
- WALTER L. KIRCHNER, Member
- ROBERT MARTIN, Member
- THOMAS ROBERTS, Member

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1716 14th STREET, N.W., SUITE 200  
WASHINGTON, D.C. 20009-4309

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

ACRS CONSULTANTS :

CHARLES BROWN

DENNIS BLEY

STEPHEN SCHULTZ

DESIGNATED FEDERAL OFFICIAL :

WEIDONG WANG

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

10:01 a.m.

CHAIR PETTI: This is a meeting of the Kairos Power Licensing Subcommittee of the Advisory Committee on Reactor Safeguards. I'm David Petti, Chairman of today's Subcommittee meeting.

ACRS members in attendance are Ron Ballinger, Tom Roberts, Bob Martin. Online, I saw Greg Halnon, Craig Harrington.

Walt, are you out there?

MEMBER KIRCHNER: Yes, I'm here, Dave.

CHAIR PETTI: Okay.

MEMBER KIRCHNER: Good morning.

CHAIR PETTI: Thank you.

Matt, are you out there?

(No response.)

No. A little late. Okay.

MEMBER DIMITRIJEVIC: I am out here, Dave.

CHAIR PETTI: Okay. Good.

And Vesna Dimitrijevic

And Vicki Bier, Vicki, are you out there?

(No response.)

Okay. Our consultants Charles Brown, Dennis Bley, and Steve Schultz are also present.

Weidong Wang of the ACRS staff is the

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1716 14th STREET, N.W., SUITE 200  
WASHINGTON, D.C. 20009-4309

1 Designated Federal Official for the meeting.

2           During today's meeting, the Subcommittee  
3 will discuss the members' review memos on the Staff  
4 Safety Evaluation for Kairos Power Hermes 2 Non-power  
5 Reactor Preliminary Safety Analysis Report and begin  
6 discussions of the Letter Report that we will prepare  
7 for the full Committee in about 10 days.

8           Like Kairos' proposed and NRC's approved  
9 Hermes Test Reactor, which we sometimes call Hermes 1,  
10 large portions of the two-unit Hermes 2 reactor PSAR  
11 are identical to the Hermes 1. The ACRS has reviewed  
12 the Hermes 1 PSAR on May 2023, and now, Hermes 2, we  
13 will focus on the design differences from Hermes 1.

14           The ACRS was established by statute and  
15 it's governed by the Federal Advisory Committee Act,  
16 FACA. The NRC implements FACA in accordance with its  
17 regulations found in Title 10 of the Code of Federal  
18 Regulations, Part 7.

19           The rules for participation in all ACRS  
20 meetings, including today's, were announced in The  
21 Federal Register on June 13th, 2019.

22           The ACRS section of the U.S. NRC public  
23 website provides our charter, bylaws, agenda, letter  
24 reports, and full transcripts of all full and  
25 subcommittee meetings, including slides presented.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1716 14th STREET, N.W., SUITE 200  
WASHINGTON, D.C. 20009-4309

1 The meeting notice and agenda for this meeting were  
2 posted there.

3 We've received no written statements or  
4 requests to make an oral statement from the public,  
5 but we have set aside time in the agenda for comments  
6 from members of the public listening to the meeting.

7 The Subcommittee will gather information,  
8 analyze all of the issues and facts, and formulate  
9 proposed positions and actions as appropriate for  
10 deliberation by the full Committee.

11 A transcript of the meeting is being kept  
12 and will be made available.

13 Today's meeting is being held in person  
14 and over Microsoft Teams for the ACRS staff and  
15 members, NRC staff, Applicant, and members of the  
16 public. The Teams link information with a telephone  
17 bridge line was placed in the agenda on the ACRS  
18 public website.

19 When addressing the Subcommittee,  
20 participants should, first, identify themselves and  
21 speak with sufficient clarity and volume, so that they  
22 may be readily heard. When not speaking, we request  
23 that participants mute their computer microphone, or  
24 phone by pressing \*6.

25 We'll now begin with the meeting.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1716 14th STREET, N.W., SUITE 200  
WASHINGTON, D.C. 20009-4309

1 So, I'm thinking --

2 MEMBER BIER: Dave?

3 CHAIR PETTI: Yes?

4 MEMBER BIER: This is Vicki. I must  
5 wanted to mention that I joined a couple of minutes  
6 late, but I am present.

7 CHAIR PETTI: Okay. Thank you.

8 MEMBER BIER: Thank you. Bye.

9 CHAIR PETTI: So, we're going to have a  
10 brief discussion about our approach today, and then,  
11 allow time for public comment. Following that, we can  
12 dismiss the court reporter, and then, we'll begin our  
13 detailed reviews of our memos on the staff.

14 So, just for anyone looking at the agenda,  
15 the public comment session will be much earlier than  
16 as recorded on the agenda, but we'll probably ask for  
17 public comment at the end as well, anyway.

18 So, with that, the goal today, I think, is  
19 to review -- there are only five chapters in which  
20 memos were written because there was a comment of some  
21 safety significance. Those are Chapter 4 on the  
22 reactor, Chapter 5 on the heat transfer systems,  
23 Chapters 7 and 8 on I&C and electrical systems, and  
24 Chapter 13 on accident analysis. Seven and 8 were in  
25 one memo. So, there's only four memos to review.

**NEAL R. GROSS**

COURT REPORTERS AND TRANSCRIBERS  
1716 14th STREET, N.W., SUITE 200  
WASHINGTON, D.C. 20009-4309



1                   With that, I think I'll ask if there's any  
2                   comments from the public. Please identify yourself,  
3                   your organization, and make your comment.

4                   (No response.)

5                   Okay. Not hearing any comments, then,  
6                   Court Reporter, you can be dismissed for the rest of  
7                   the day.

8                   (Whereupon, at 10:06 a.m., the  
9                   Subcommittee meeting went off the record.)

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25