



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
WASHINGTON, DC 20555 - 0001**

November 12, 2019

MEMORANDUM TO: Scott Moore, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Peter Riccardella, Chairman */RA/*  
Advisory Committee on Reactor Safeguards

SUBJECT: MINUTES OF THE 666<sup>th</sup> MEETING OF THE ADVISORY  
COMMITTEE ON REACTOR SAFEGUARDS (ACRS),  
SEPTEMBER 4-6, 2019

I hereby certify, to the best of my knowledge and belief, that the minutes of the subject meeting are an accurate record of the proceedings for that meeting. In accordance with Title 10 of the *Code of Federal Regulations*, Part 7, "Advisory committees," Section 7.13, "Minutes of advisory committee meetings," this document serves as the certified minutes.

Cc: Russel Chazell  
SECY  
Michael McCoppin  
OEDO  
ACRS staff  
ACRS members



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
WASHINGTON, DC 20555 - 0001**

November 12, 2019

MEMORANDUM TO: Scott Moore, Executive Director  
Advisory Committee on Reactor Safeguards

FROM: Peter Riccardella, Chairman */RA/*  
Advisory Committee on Reactor Safeguards

SUBJECT: MINUTES OF THE 666<sup>th</sup> MEETING OF THE ADVISORY  
COMMITTEE ON REACTOR SAFEGUARDS (ACRS),  
SEPTEMBER 4-6, 2019

I hereby certify, to the best of my knowledge and belief, that the minutes of the subject meeting are an accurate record of the proceedings for that meeting. In accordance with Title 10 of the *Code of Federal Regulations*, Part 7, "Advisory committees," Section 7.13, "Minutes of advisory committee meetings," this document serves as the certified minutes.

Cc: Russel Chazell  
SECY  
Michael McCoppin  
OEDO  
ACRS staff  
ACRS members

**Accession No: ML19330G060      Publicly Available (Y/N): \_Y\_      Sensitive (Y/N): N**  
**If Sensitive, which category?**

**Viewing Rights:**  NRC Users or  ACRS only or  See restricted distribution

<b>OFFICE</b>	ACRS	ACRS/SUNSI Review	ACRS	ACRS
<b>NAME</b>	WWang	WWang	LBurkhart	PRiccardella
<b>DATE</b>	11/8/2019	11/8/2019	11/8/2019	11/12/2019

**OFFICIAL RECORD COPY**

# MINUTES OF THE 666<sup>th</sup> MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

## ROCKVILLE, MARYLAND

In accordance with Title 10 of the *Code of Federal Regulations*, Part 7, "Advisory committees," Section 7.13, "Minutes of advisory committee meetings," this document serves as the certified minutes.

The 666<sup>th</sup> meeting of the Advisory Committee on Reactor Safeguards (ACRS) was held in Conference Room T2D10, Two White Flint North Building, 11545 Rockville Pike, Rockville, Maryland, on September 4-6, 2019.

The summary report from the ACRS Chairman to the NRC Chairman contains the following information for this meeting: (1) an accurate description of each matter discussed and (2) a list of all the documents issued or approved by the Committee. The documents received by the Committee are listed in the references of each committee letter associated with this meeting.

A transcript of selected portions of the meeting is available in the NRC's public document room ([pdresource@nrc.gov](mailto:pdresource@nrc.gov) or 1-800-397-4209), or from the Publicly Available Records System (PARS) component of NRC's document system (ADAMS), or at <http://www.nrc.gov/reading-rm/doc-collections/acrs/agenda/>. The presentation slides and handouts used during the meeting are attached to these transcripts.

Details of the meeting information can be found in the following documents:

1. Full committee meeting agenda (ML19211D388)
2. Summary report (ML19302F281)
3. Transcript with presentation slides (these may be found at <https://www.nrc.gov/reading-rm/doc-collections/acrs/agenda/2019/>)

## ATTENDEES

### ACRS Members

Peter Riccardella (Chairman), Mr. Matthew Sunseri (Vice-Chairman), Dr. Joy Rempe (Member-at-Large), Dr. Ronald Ballinger, Dr. Dennis Bley, Mr. Charles Brown, Dr. Michael Corradini, Dr. Vesna B. Dimitrijevic, Dr. Walter Kirchner, Dr. Jose March-Leuba, Dr. David Petti, and Mr. Harold Ray.

### ACRS Staff

S. Moore  
L. Burkhart  
H. Nourbakhsh  
D. Widmayer  
K. Howard  
Z. Abdullahi  
M. Snodderly

Other Attendees (from Scanned Sing-in Sheet)

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
666<sup>th</sup> FULL COMMITTEE MEETING

September 4-7, 2019

PLEASE PRINT

TODAY'S DATE: 9/4/2019

	<u>NAME</u>	<u>AFFILIATION</u>
1	John Segala	NRC
2	Amy Cutler	NRC
3	Martin Stutzke	NRC
4	Michelle Hart	NRC
5	Nanette Valliere	NRC
6	Robert Kasek	NRC/OCM/JMB
7	Seshaji Tammura	NRC/DISA
8	LARRY BURKHART	NRC/ACRS
9	Hal Pfan	NRC/DAR
10	Jan MAZZA	NRC/DAR
11	JACK GIESSEN	NRC/RII
12	DAVID DISTA	EXXON
13	DON WARREN	EXXON
14	ERIC OESTERLE	NRC/NRR
15	DAN HAWK	NRC/NRR
16	Greg Robison	Duke Energy
17	Steve Lynch	NRC
18	ADRIAN MUNIZ	NRC
19	STEVE HALE	ENERCON
20	Swadesh Randeep	FPL
21	Maribel Valdez	FPL
22	BRIAN STAMP	FPL
23	PAUL JACOBS	FR
24	Tim Cleary	ENERCON
25	JOHN TSAO	NRC
26	David Nold	NRC
27	GEORGE THOMAS	NRC
28	Bill Maly	FPL

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
666<sup>th</sup> FULL COMMITTEE MEETING

September 4-7, 2019

PLEASE PRINT

TODAY'S DATE: 9/4/2019

	<u>NAME</u>	<u>AFFILIATION</u>
1	Roger Kalikian	NRC
2	Duc Nguyen	NRC
3	Heather Galloway	Duke Energy
4	Brian Wittick	NRC
5	George Wauers	NRC
6	Bill Rogers	NRC
7	Joe Colaccino	NRC
8	Angela Wu	NRC
9	Joe Donoghue	NRC
10	Senof MIN	NRC
11	Jois James NRC	NRC
12	Andrew Primaris	NRC
13	Sam Caladardo	NRC
14	Steve Franzone	FPL
15	LARRY BUNKERT	NRC IACRS
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
666<sup>th</sup> FULL COMMITTEE MEETING

September 4-7, 2019

PLEASE PRINT

TODAY'S DATE: 9/5/2019

NAME

AFFILIATION

1	JOSHUA S. KAIZER	NRC/DSS/SNPB
2	Kate Jennings	MPC/DLP/PLPB
3	LARRY BURKHART	NRC/ACRS
4	REED ANZALONE	NRC/NRR/DSS/SRXB
5	Brett Matthews	Framatome
6	Chris Van Wert	NRC/NRO/DANU/ARTB
7	Bruce Bovol	NRC/DISE
8	Jeff Schmitt	NRO/DSRA/SRSB
9	Paul Clifford	NRR/DSS
10	Kathy Weaver	ACRC/TSB
11	Fred Schofer	NMSS/DPR
12		
13		
14		
15		
16		
17		
18		
19		
20		
21		
22		
23		
24		
25		
26		
27		
28		

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS  
666<sup>th</sup> FULL COMMITTEE MEETING

September 4-7, 2019

PLEASE PRINT

TODAY'S DATE: 9/5/2019

<u>NAME</u>	<u>AFFILIATION</u>
1 STEVE POPE	NuScale
2 MATTHEW PRESSON	NuScale
3 MIKE MELTON	NuScale
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	