



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

February 6, 2017

NOTE TO: FILE

FROM: Sherry Meador, Technical Secretary */RA/*
Advisory Committee on Reactor Safeguards

The minutes of the subject meeting were certified on October 21, 2016 as the official record of the proceedings of that meeting.



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

October 21, 2016

MEMORANDUM TO: ACRS Members

FROM: Sherry Meador **/RA/**
Technical Secretary, ACRS

SUBJECT: CERTIFICATION OF THE MEETING MINUTES FROM
THE ADVISORY COMMITTEE ON REACTOR
SAFEGUARDS 637th FULL COMMITTEE MEETING
HELD ON OCTOBER 6-8, 2016, IN ROCKVILLE, MARYLAND

The minutes of the subject meeting were certified on October 21, 2016 as the official record of the proceedings of that meeting. A copy of the certified minutes is attached.

Attachment:
As stated



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

October 14, 2016

MEMORANDUM TO: Sherry Meador, Technical Secretary
Advisory Committee on Reactor Safeguards

FROM: Dennis C. Bley */RA/*
ACRS Chairman

SUBJECT: MINUTES OF THE 637th MEETING OF THE ADVISORY
COMMITTEE ON REACTOR SAFEGUARDS (ACRS),
OCTOBER 6-8, 2016

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.

OFFICE	ACRS	ACRS/SUNSI Review
NAME	SMeador	SMeador
DATE	10/14/2016	10/14/2016

OFFICIAL RECORD COPY

MINUTES OF THE 637th MEETING OF THE ADVISORY COMMITTEE ON REACTOR SAFEGUARDS

ROCKVILLE, MARYLAND

The 637th meeting of the Advisory Committee on Reactor Safeguards (ACRS) was held in Conference Room T2B1, Two White Flint North Building, 11545 Rockville Pike, Rockville, Maryland, on October 6-8, 2016. A copy of the meeting agenda is attached.

The summary report [ML17018A358] 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. A copy of the summary report is attached. 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 (pdr.resource@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.

ATTENDEES

ACRS Members

Dr. Dennis Bley (Chairman), Dr. Michael Corradini (Vice-Chairman), Dr. Pete Riccardella (Member-at-Large), Dr. Ronald Bellinger, Mr. Charles Brown, Dr. Margaret Chu, Dr. Walter Kirchner, Dr. Jose March-Leuba, Dr. Dana A. Powers, Mr. Harold Ray, Dr. Joy Rempe, Mr. Gordon Skillman, Mr. John Stetkar, and Mr. Matthew Sunseri

ACRS Staff

A. Valentin
M. Banks
K. Howard
W. Wong

A list of other attendees is attached.



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

**AGENDA
637th ACRS MEETING
OCTOBER 6-8, 2016
11545 ROCKVILLE PIKE, ROCKVILLE, MD**

THURSDAY, OCTOBER 6, 2016, CONFERENCE ROOM T-2B1

- 1) 8:30 AM – 8:35 AM Opening Remarks by the ACRS Chairman (Open) (DCB/ADV)
1.1) Opening Statement
1.2) Items of Current Interest

- 2) 8:35 AM – 9:45 AM Preparation for Commission Meeting (Open) (DCB/ADV)
2.1) Preparation by the Committee

9:45 AM - 10:00 AM

***** BREAK *****

- 3) 10:00 AM – 12:00 PM Meeting with the Commission (Open) (DCB/ADV)
3.1) The Committee will meet with the Commission

12:00 PM - 1:00 PM

***** LUNCH *****

- 4) 1:00 PM – 3:00 PM Grand Gulf Nuclear Station Unit 1 License Renewal Application
(Open) (DCB/KH)
4.1) Remarks by the Subcommittee Chairman
4.2) Briefings by and discussions with representatives of the
NRC staff and Entergy regarding the safety evaluation
associated with the Grand Gulf Unit 1 license renewal
application

3:00 PM - 3:15 PM

***** BREAK *****

- 5) 3:15 PM – 4:15 PM Review of RG 1.26, Rev. 5, "Quality Group Classifications and
Standards for Water-, Steam-, and Radioactive-Waste-Containing
Components of Nuclear Power Plants" (Open) (GRS/WW)
5.1) Remarks by the Subcommittee Chairman
5.2) Briefings by and discussions with representatives of the
NRC staff regarding RG 1.26

- 6) 4:15 PM – 6:00 PM Preparation of ACRS Reports (Open)
- 6.1) Grand Gulf Nuclear Station Unit 1 License Renewal Application (DCB/KH)
 - 6.2) Review of RG 1.26, Rev. 5, “Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants” (GRS/WW)

FRIDAY, OCTOBER 7, 2016, CONFERENCE ROOM T-2B1

- 7) 8:30 AM – 8:35 AM Opening Remarks by the ACRS Chairman (Open) (DCB/ADV)
- 7.1) Opening Statement
- 8) 8:35 AM – 10:00 AM Future ACRS Activities/Report of the Planning and Procedures Subcommittee (Open/Closed) (DCB/ADV)
- 8.1) Discussion of the recommendations of the Planning and Procedures Subcommittee regarding items proposed for consideration by the Full Committee during future ACRS meetings
 - 8.2) Report of the Planning and Procedures Subcommittee on matters related to the conduct of ACRS business, including anticipated workload and member assignments

[NOTE: A portion of this meeting may be closed pursuant to 5 U.S.C. 552b (c) (2) and (6) to discuss organizational and personnel matters that relate solely to internal personnel rules and practices of the ACRS, and information the release of which would constitute a clearly unwarranted invasion of personal privacy.]

- 9) 10:00 AM – 10:15 AM Reconciliation of ACRS Comments and Recommendations (Open) (DCB/ADV/MLB)
- 9.1) Discussion of the responses from the NRC Executive Director for Operations to comments and recommendations included in recent ACRS reports and letters

10:15 AM - 10:30 AM * BREAK *****

- 10) 10:30 AM – 11:30 AM Research Quality Review Panels (Open) (JLR/HPN)
- 10.1) Discussion of Office of Nuclear Regulatory Research projects

11:30 AM – 12:30 PM

***** LUNCH *****

- 11) 12:30 PM – 6:00 PM Preparation of ACRS Reports (Open)
11.1) Continue discussion of the proposed ACRS reports listed under Item 6

SATURDAY, OCTOBER 8, 2016, CONFERENCE ROOM T-2B1

- 12) 8:30 AM – 11:30 AM Preparation of ACRS Reports (Open)
12.1) Continue discussion of the proposed ACRS reports listed under Item 6
- 13) 11:30 AM – 12:00 PM Miscellaneous (Open) (DCB/ADV)
13.1) Discussion of matters related to the conduct of Committee activities and specific issues that were not completed during previous meetings, as time and availability of information permit

NOTES:

- When appropriate, members of the public and representatives of the nuclear industry may provide their views during the briefings.
- During the meeting, 301-415-7360 should be used in order to contact anyone in the ACRS Office.
- Presentation time should not exceed 50 percent of the total time allocated for a given item. The remaining 50 percent of the time is reserved for discussion.
- Thirty five (35) hard copies and one (1) electronic copy of the presentation materials should be provided to the ACRS in advance of the briefing.
- One (1) electronic copy of each presentation should be emailed to the Designated Federal Official 1 day before the meeting. If an electronic copy cannot be provided within this timeframe, presenters should provide the Designated Federal Official with a CD containing each presentation at least 30 minutes before the meeting.



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

January 19, 2017

The Honorable Stephen G. Burns
Chairman
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

SUBJECT: SUMMARY REPORT – 637th MEETING OF THE ADVISORY COMMITTEE ON
REACTOR SAFEGUARDS, OCTOBER 6-7, 2016

Dear Chairman Burns:

During its 637th meeting, October 6-7, 2016, the Advisory Committee on Reactor Safeguards (ACRS) discussed several matters and completed the following report, letter, and memoranda:

REPORT

Report to Stephen G. Burns, Chairman, NRC, from Dennis C. Bley, Chairman, ACRS:

- “Report on the Safety Aspects of the License Renewal Application of the Grand Gulf Nuclear Station, Unit 1,” dated October 14, 2016

LETTER

Letter to Victor M. McCree, Executive Director for Operations, NRC, from Dennis C. Bley, Chairman, ACRS:

- “Review of RG 1.26, Revision 5, ‘Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants’,” dated October 17, 2016

MEMORANDA

Memoranda to Victor M. McCree, Executive Director for Operations, NRC, from Andrea D. Veil, Executive Director, ACRS:

- “Regulatory Guides,” dated October 12, 2016
 - DG-1332, “Nuclear Power Plant Instrumentation for Earthquakes”
 - DG-3050, “Spent Fuel Heat Generation in an Independent Spent Fuel Storage Installation”
 - RG-1.20, Rev. 4, “Comprehensive Vibration Assessment Program for Reactor Internals during Preoperational and Startup Testing”
 - RG 5.51, Rev. 1, “Independent Assessment of Nuclear Material Control and Accounting Systems”
 - RG 5.3, “Statistical Terminology and Notation for Special Nuclear Materials Control and Accountability” (Withdrawal)
- “Documentation of Receipt of Applicable Official NRC Notices to the Advisory Committee on Reactor Safeguards for October 2016,” dated October 12, 2016

HIGHLIGHTS OF KEY ISSUES

1. Grand Gulf License Renewal Application

The Committee met with representatives of the NRC staff and Entergy Operations, Inc. (Entergy) to discuss the Grand Gulf Nuclear Station, Unit 1 license renewal application and associated final safety evaluation report. During the meeting, Entergy provided an overview of the plant and described their aging management programs and license renewal commitments. The staff discussed closure of four open items identified in the draft safety evaluation report and concluded that the applicant had adequately addressed their concerns and closed the open items. The staff also concluded that the requirements of 10 CFR 54.29(a)(1) and (a)(2) were met for renewal of Grand Gulf Nuclear Station, Unit 1, and the operating license renewal should be approved.

Committee Action

The Committee issued a letter report to the NRC Chairman on this matter, dated October 14, 2016, with the following conclusion and recommendation: 1) The programs established and committed to by Entergy to manage age-related degradation provide reasonable assurance that Grand Gulf Nuclear Station, Unit 1 can be operated in accordance with its current licensing basis for the period of extended operation without undue risk to the health and safety of the public, and 2) Entergy's application for renewal of the operating license for Grand Gulf Nuclear Station, Unit 1 should be approved.

2. Review of Regulatory Guide 1.26, Revision 5

The Committee met with representatives of the NRC staff to discuss Regulatory Guide (RG) 1.26, Revision 5, "Quality Group Classifications and Standards for Water-, Steam-, and Radioactive-Waste-Containing Components of Nuclear Power Plants." The staff presented background information and the proposed updates. Revision 5 contains no new technical requirements. It clarifies content, corrects errors, and provides references to related classification systems such as 10 CFR 50.69, "Risk-informed categorization and treatment of structures, systems, and components for nuclear power reactors," and to industry and international standards that may be proposed by applicants or licensees as an alternative means to comply with NRC requirements.

Committee Action

The Committee issued a letter to the EDO on this matter, dated October 17, 2016, with the following recommendations: 1) Revision 5 of RG 1.26 should be issued and 2) The next revision of RG 1.26 should be broadened to include a set of basic principles for assignment of components to each quality group.

RECONCILIATION OF ACRS COMMENTS AND RECOMMENDATIONS

The Committee considered the Executive Director for Operations' response of September 14, 2016, to the July 18, 2016 ACRS letter, "Report on the Safety Aspects of the License Renewal Application of the LaSalle County Station, Units 1 and 2." The Committee was satisfied with the Executive Director for Operations' response.

SCHEDULED TOPICS FOR THE 638th ACRS MEETING

The following topics are scheduled for the 638th ACRS meeting, to be held on November 3-5, 2016:

- North Anna 3 Combined License Application (COLA)
- AREVA Extended Flow Window/Monticello
- 10 CFR Part 61 Rulemaking
- Assessment of the Quality of Selected NRC Research Projects

Sincerely,

/RA/

Dennis C. Bley
Chairman

ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
637th FULL COMMITTEE MEETING


October 6-8, 2016

PLEASE PRINT

TODAY'S DATE: October 6, 2016

NAME

AFFILIATION

	<u>NAME</u>	<u>AFFILIATION</u>
1	Thomas Coutu	Entergy - GGNS
2	James Hallenbeck	Entergy - GGNS
3	James Nadeau	Entergy - GGNS
4	ANDREW TAYLOR	ENTERGY - CORPORATE
5	GARRY YOUNG	ENTERGY -
6	Mark Spinelli	Entergy
7	David J. Lach	Entergy
8	Alan Cox	ENTERGY
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ADVISORY COMMITTEE ON REACTOR SAFEGUARDS
637th FULL COMMITTEE MEETING
October 6-8, 2016

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TODAY'S DATE: September 8, 2016

	<u>NAME</u>	<u>NRC ORGANIZATION</u>
1	Ben Beasley	NRR / DLR
2	Yaira Diaz	NRR / DLR
3	James Medoff	NRR / DLR
4	William Holsky	NRR / DLR
5	Seung MZN	NRR / DLR
6	Bob Lukis	NRR / DSS
7	REBECCA RICHARDSON	NSIR / DSO
8	Steven Bloom	NRR / DLR
9	Bart Fu	NRR / DLR
10	CLIFF DOVIT	NRR / DLR
11	Allen Hsien	NRR / DLR
12	Bill Rogers	NRR / DLR
13	Andrew Privaris	NRR / DLR
14	GEORGE THOMAS	NRR / DLR
15	Tam Tran	NRR / DLR
16	AMRIT PATEL	NRR / DSS
17	Nicholas Hansing	NRO / DEIA
18	Tim Lupold	NRO / DEIA / MEB
19	Tuan Le	NRO / DEIA / MEB
20	S. Balakrishnan	NRR / NRR / DE / EMCB
21	T. Scarborough	NRC / NRO / DEIA / MEB
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