

AA1150105

Committee Menu

2001 Annual Report: Review of Federal Advisory Committee

12/3/2001 11:20:35 AM					2. Fiscal Year	
1. Department or Agency Nuclear Regulatory Com	missior	n			2. Piscar real 2001	
3. Committee or SubCommittee		_		3b. G	SA Committee No.	
Advisory Committee on	Reactor	Safeguards			207	
4. Is this New During Fiscal Year?	5. Current Charter 6. Expected Renewal Date 7. 1			al Date 7. Ex	xpected Term Date	
No	12/2	0/2000	12/20/2002	2		
8a. Was Terminated During		8b. Specific Termin	nation Authority	8c Actual	Termination Date	
FY? No		42 U.S.C. Sect.	•	00.7 10144	Tommunon Butt	
9. Agency Recommendation for Continue	Next FY		eq to Terminate?	10b.Legislati	on Pending?	
11. Establishment Authority	Statu	itory(Congress (Created)			
12. Specific Establishment Auth 42 U.S.C. Sect. 2039 &	•	13. Effective Da 1/1/1957	te 14. Committe Continu	• •	c. Presidential?	
15. Description of Committee		ntific Technical gram Advisory l	Board			
16a. Total Number of Reports						
34						
16b. Report Titles and Dates	OED ==		4.6.75	LTD / **	•	
Proposed Revision to 10 Licensed Activities in Nu	clear P	ower Reactors A	Against Radiolog	ical Sabotage	,, 10/11/2000	
Union of Concerned Scie Grade"		•		0	10/11/2000	
Pressurized Thermal Sho			•		10/12/2000	
Draft Final Technical Students Decommissioning Nuclea			Accident Risk at		11/8/2000	
License Renewal Guidance Documents					11/15/2000	
BWROG Proposal to Use Safety Relief Valves and Low Pressure Systems as a Redundant Safe Shutdown Path to Satisfy the Requirements of 10 CFR 50, Appendix R					11/20/2000	
Proposed Framework for Risk-Informed Changes to the Technical					11/20/2000	
Assessment Guidance"	Nuclear Energy Institute Draft Report, NEI 99-03, "Control Room Habitability 12/14/2004					
Proposed Final Regulatory Guide DG-1053, "Calculational and Dosimetry Methods for Determining Pressure Vessel Neutron Fluence" 12/15/200					12/15/2000	
Issues Associated with Industry-Developed Thermal-Hydraulic Codes 1/11/2001						
Might Be Subjected to Si	Proposed Resolution of Generic Safety Issue-152, "Design Basis for Valves That 2/8/2001 Might Be Subjected to Significant Blowdown Loads"					
Draft ANS External Eve	2/9/2001					
Review of the Siemens Po Small-Break Loss-of-Coo	2/13/2001					
NUREG-1740,"Voltage-IACRS by the Ad Hoc Su	3/1/2001					
Scram Rule"						
Electric Power Research Analysis Code	t 3/15/2001					
Proposed Final License I					4/13/2001	
Criteria for High Burnu	Closure of Generic Safety Issue-170, "Reactivity Transients and Fuel Damage Criteria for High Burnup Fuel"					
Interim Letter Related to the License Renewal of Edwin I. Hatch Nuclear Station, Units 1 and 2					4/16/2001	
NUREG-1635, Vol. 4, "Review and Evaluation of the Nuclear Regulatory Commission Safety Research Program - A Report to the U.S. NRC" 5/1/2001						



Report on the Safety Aspects of the License Renewal Application for Arkansas Nuclear One, Unit 1					
Proposed Final Management Directive 6.4, "Generic Issue Program"					
Response to Chairman Meserve's May 7, 2001 Memorandum Regarding Differing Professional Opinion on Steam Generator Tube Integrity Issues					
Response to Chairman Meserve's April 12, 2001 ACRS Pertaining to Industry Use of Thermal-Hy	draulic Codes	6/19/2001			
Risk-Based Performance Indicators: Phase 1 Rep		6/19/2001			
Draft NUREG-1742, "Perspectives Gained from Examination of External Events (IPEEE) Progra	m''	7/20/2001			
Recommendation on the Need to Revise 10 CFR I Renewal of Operating Licenses for Nuclear Powe	r Plants''	7/20/2001			
So. Texas Proj. Nuclear Operating Co. Requests Certain Components from Scope of Special Treat Regs. (Option 2)	for Exemption to Exclude the three t	7/23/2001			
Circumferential Cracking of PWR Vessel Head P	Penetrations	7/23/2001			
SECY-01-0100 - Policy Issues Re to Safeguards, I Preparedness Regs. at Decommissioning Nuc. Pos Spent Fuel Pools		7/24/2001			
Feasibility Study on Risk-Informing the Technica 50.46 for Emergency Core Cooling Systems	I Requirements of 10 CFR	7/25/2001			
Proposed Final Rev. to Regulatory Guide 1.78, " "Evaluating the Habitability of a Nuc. Power Plant Control Room During a Postulated Hazardous Chemical Release"					
Generic Safety Issue-191, "Assessment of Debris Accumulation on PWR Sump Pump Performance"					
Application of GE Nuclear Energy TRACG Code Occurrences	e to Anticipated Operational	9/17/2001			
17a Open: 49 17b. Closed: 0 1	7c. Partially Closed: 6 17d. Total	al Meetings 55			
Meeting Purposes and Dates					
Planning & Procedures Subcommittee	10/4/2000 10/4/2000				
476th Full Committee	10/5/2000 10/7/2000				
Ad Hoc Subcommittee on Differing Professional Opinion	10/10/2000 10/14/2000				
Fire Protection Subcommittee	10/16/2000 10/17/2000				
Reactor Fuels Subcommittee	10/18/2000 10/18/2000				
Plant License Renewal Subcommittee	10/19/2000 10/20/2000				
Planning & Procedures Subcommittee	10/31/2000 10/31/2000				
Plant Systems Subcommittee	10/31/2000 10/31/2000				
Safety Research Program Subcommittee	11/1/2000 11/1/2000				
477th Full Committee	11/2/2000 11/4/2000				
Thermal-Hydraulic Phenomena Subcommittee	11/13/2000 11/14/2000				
Severe Accident Management Subcommittee	11/15/2000 11/15/2000				
Materials & Metallurgy Subcommittee	11/16/2000 11/16/2000				
Planning & Procedures Subcommittee	12/5/2000 12/5/2000				
Plant Operations Subcommittee	12/6/2000 12/6/2000				
478th Full Committee	12/6/2000 12/9/2000				
Thermal-Hydraulic Phenomena Subcommittee	1/16/2001 1/17/2001				
Jt. Materials & Metallurgy and Thermal-Hydraulic Phenomena Subcommittee	1/18/2001 1/18/2001				
ACRS/ACNW Joint Subcommittee	1/19/2001 1/19/2001				
Planning & Procedures Subcommittee Meeting and Retreat					
Planning & Procedures Subcommittee					
	1/31/2001 1/31/2001				
479th Full Committee	2/1/2001 2/3/2001				
Thermal-Hydraulic Phenomena Subcommittee					
	2/1/2001 2/3/2001				

Planning & Procedures Subcommittee	2/28/2001 2/28/2001	
480th Full Committee	3/1/2001 3/3/2001	
Thermal-Hydraulic Phenomena Subcommittee	3/15/2001 3/15/2001	
Jt. Materials & Metallurgy and		
Thermal-Hydraulic Phenomena and Probabilistic Risk Assessment Subcommittees	3/16/2001 3/16/2001	
Plant License Renewal Subcommittee	3/27/2001 3/28/2001	
Reactor Fuels Subcommittee	4/4/2001 4/4/2001	
Planning & Procedures Subcommittee	4/4/2001 4/4/2001	
481st Full Committee	4/5/2001 4/7/2001	
Reliability & Probabilistic Risk Assessment Subcommittee	4/17/2001 4/17/2001	
Plant Operations Subcommittee	5/9/2001 5/9/2001	
Planning & Procedures Subcommittee	5/9/2001 5/9/2001	
482nd Full Committee	5/10/2001 5/12/2001	
Advanced Reactors Subcommittee Workshop on Regulatory Challenges for Future Nuclear Power Plants	6/4/2001 6/5/2001	
Planning & Procedures Subcommittee	6/6/2001 6/6/2001	
483rd Full Committee	6/6/2001 6/8/2001	
	6/12/2001 6/12/2001	
Thermal-Hydraulic Phenomena Subcommittee Reliability & Probabilistic Risk Assessment	0/12/2001 0/12/2001	
Subcommittee	6/22/2001 6/22/2001	
Jt. Plant Operations and Fire Protection Subcommittee and Waterford Site Visit	6/27/2001 6/28/2001	
Plant Operations Subcommittee	7/9/2001 7/9/2001	
Jt. Materials & Metallurgy and Thermal-Hydraulic Phenomena and Probabilistic Risk Assessment Subcommittee	7/9/2001 7/9/2001	
Jt. Materials & Metallurgy and Plant Operations Subcommittee	7/10/2001 7/10/2001	
Planning & Procedures Subcommittee	7/10/2001 7/10/2001	
484th Full Committee	7/11/2001 7/13/2001	
Thermal-Hydraulic Phenomena Subcommittee	7/17/2001 7/18/2001	
Thermal-Hydraulic Phenomena Subcommittee	8/22/2001 8/23/2001	
Planning & Procedures Subcommittee	9/4/2001 9/4/2001	
485th Full Committee	9/5/2001 9/8/2001	
Plant License Renewal Subcommittee	9/25/2001 9/25/2001	
Materials & Metallurgy Subcommittee	9/26/2001 9/26/2001	
Thermal-Hydraulic Phenomena Subcommittee	9/26/2001 9/27/2001	
•	Current Fiscal Year	Next Fiscal Year
18a(1) Personnel Pmts to Non-Federal Members	\$541,394	\$566,298
18a(2) Personnel Pmts to Federal Members	\$0	\$0
18a(3) Personnel Pmts to Federal Staff	\$2,554,157	\$2,671,648
18a(4) Personnel Pmts to Non-member Consultants	\$23,620	\$47,080
18b(1) Travel and Per Diem to Non-Federal Members	\$251,640	\$255,000
18b(2) Travel and Per Diem to Federal Members	\$231,040	\$255,000
18b(3) Travel and Per Diem to Federal Staff	\$19,13 8	\$22,000
18b(4) Travel and Per Diem to Non-Member Consultants	\$10,694	\$20,000
18c.Other(rents, user charges, graphics, printing, mail etc.)	\$33,180	\$43,500
18d Total	\$3,433,823	\$3,625,526
19. Federal Staff Support Years	20.8	\$5,025,520 21.3
19. I edetai Stati Support Teals	20.0	21.3

20a. How does the Committee accomplish its purpose?

The Advisory Committee on Reactor Safeguards (ACRS) reports to the Nuclear Regulatory Commission (NRC) and provides the Commission with independent reviews of and advice on, the safety of proposed or existing NRC licensed reactor facilities and the adequacy of applicable safety standards. The ACRS was established as a statutory committee by a 1957 amendment to the Atomic Energy Act of 1954. With the enactment of the Energy Reorganization Act of 1974, the licensing functions of the Atomic Energy Commission (AEC) were transferred intact from the AEC to the NRC. The ACRS has continued in the same advisory role to the NRC with its work changing with the needs of the Commission. Some ACRS tasks are mandated by statute or regulation, some are in response to direction by the Commission, or requests from the NRC staff, or other stakeholders, and some are self initiated in response to ACRS concerns on important regulatory matters. The ACRS, upon request from the Department of Energy (DOE), provides advice on the safety of U.S. naval reactor designs. Upon request, the ACRS also provides technical advice to the Defense Nuclear Facilities Safety Board. The ACRS and its subcommittees meet regularly in public, Federal Advisory Committee Act (FACA)-regulated meetings to work on matters within the scope of the ACRS responsibilities. ACRS meeting agenda, meeting transcripts, and letter reports are available for downloading or viewing on the internet at the ACRS/ACNW website. The ACRS and its subcommittees held 55 meetings during FY 2001, including 10 Full Committee meetings that were attended by all ACRS members. The ACRS members are chosen for their technical expertise relevant to the safety issues important to the Commission. Consultants are used on occasion to augment the expertise of the ACRS members. The Committee has a full-time staff that provides technical support and administrative services in compliance with FACA requirements. ACRS subcommittees normally consist of three to six ACRS members with the expertise needed to review in detail the regulatory and safety issues and to report to the Full Committee. Stakeholder participation in ACRS meetings is encouraged and routinely occurs. The Committee's advice, in the form of written reports, is only produced by the Full Committee and is discussed with the Commission in public meetings. The ACRS conducts an ongoing review of its plans and schedules to ensure that regulatory matters within its scope of responsibility are being properly addressed and within its resources, and on schedules that are consistent with the needs of its stakeholders. Input from the Commission, the NRC staff, and affected stakeholders is used in this process. A Memorandum of Understanding with the NRC Executive Director for Operations (EDO) provides a framework for NRC staff interaction with the ACRS. The ACRS conducts formal self assessments to improve its effectiveness and efficiency. A report is provided to the Commission on the outcome of this process. The focus of the ACRS work during FY 2001 was on risk-informed and performance-based regulatory initiatives, license renewal applications, boiling water reactor extended core power uprates, thermal-hydraulic codes, differing professional opinion on steam generator tube integrity issues, spent fuel pool fire risk issues, and the NRC safety research program.

20b. How does the Committee balance its membership?

The Commission appoints ACRS members with the scientific and engineering expertise needed to address the safety issues of importance to the Commission. Members are sought who can provide an independent perspective on nuclear safety issues, outstanding scientific and technical ability, balanced and mature judgment, and a willingness to devote the time required to the demanding work involved. Members are appointed for 4-year terms and, absent unusual circumstances, do not serve for more than three terms. Members are reappointed at the end of a 4-year term only if there is a compelling continuing need for their expertise. Vacancies in the ACRS membership are filled from the pool of applicants which exists after solicitations of interest are published in the Federal Register, trade and professional society publications, and the press. Recommendations to the Commission as to the selection of qualified candidates from this pool are made by the ACRS Member Candidate Screening Panel. The ACRS normally provides input to this Panel. During FY 2001, the membership was comprised of individuals with diverse employment backgrounds and included those experienced in the areas of nuclear power plant operations; probabilistic risk assessment; analysis of severe reactor accident phenomena; design of nuclear power plant structures, systems, and components; chemical engineering; materials and metallurgy; and thermal-hydraulics and computational fluid dynamics. The diversity of viewpoints represented by current members is based on special fields of interest, employment experience, and technical expertise. These member attributes provide the Committee with the balance of highly qualified technical expertise and diverse safety perspectives necessary to carry out the Committee's statutory responsibilities effectively.

20c. How frequent and relevant are the Committee meetings?

The ACRS and its subcommittees held 55 meetings during FY 2001, of which 10 were Full Committee meetings. The number of meetings held in a reporting period is directly related to the number of nuclear safety matters to be reviewed as required by statute; the number of rules and regulatory guidance referred to the Committee for review and comment; the number of special reviews requested by the Commission, EDO, or other Federal Government organizations; and other safety issues of particular concern to the Committee and its stakeholders. All of the Committee members normally meet 10 times a year for 3 or 4 days in Full Committee meetings, to consider important safety-related nuclear issues, generic and special issues, rules, and regulatory guidance. The ACRS subcommittees, which normally are comprised of three to six members with the relevant expertise, meet as necessary with stakeholders to conduct in-depth reviews of particular matters for later consideration by the full membership during Full Committee meetings. Subcommittee meetings are conducted under the same FACA procedures as the Full Committee meetings and are utilized to make efficient use of Committee resources. Reviews are conducted during each Full Committee meeting to assess the relevance of proposed review topics, resource needs, and the priority of each activity. These assessments have the benefit of input from the Commission, EDO, and other stakeholders. The self assessment conducted by the ACRS for its CY 2000 activities involved collection of input from a variety of stakeholders. This information was used to assess the relevance of ACRS activities. All ACRS meetings for this reporting period addressed either matters for which ACRS review was required by statute or regulation, specific requests from either the Commission or the EDO, or other important regulatory matters within the ACRS scope of responsibility.

20d. Why can't the advice or information this committee provides be obtained elsewhere?

The ACRS is an independent body of recognized experts in the field of nuclear reactor safety whose Congressional mandate is to provide the Commission with independent advice. Particular duties of the ACRS (e.g., review of reactor operating license renewal applications, standard design applications, and construction permit and operating license applications for nuclear power plants) are dictated by statute or regulation. In addition, functional arrangements exist wherein, upon request, the ACRS also provides advice to the U.S. Navy, the Department of Energy, and the Defense Nuclear Facilities Safety Board. The Commission has its own expert staff on whom it relies in the day-to-day regulation of nuclear power facilities. The ACRS provides the Commission and the NRC staff with an independent, critical review of high-level regulatory issues under consideration by the NRC and independent technical insights as to important matters needing Commission attention. The ACRS members are part-time special government employees with other full-time interests and activities in related fields, and provide a breadth of experience, an independent perspective on issues, and technical knowledge that is not duplicated by the NRC's full-time government employees. A standing committee such as the ACRS remains current with respect to nuclear safety issues of importance to the NRC, including those related to reactor operating experience, regulatory reform, and NRC's needs for safety research, and provides an independent, collegial judgment regarding these issues that part-time consultants could not provide. The ACRS meetings provide an important forum to stakeholders to express freely their concerns on safety issues and regulatory process. A number of important safety initiatives have had their origins in ACRS deliberations. Through the ACRS, the public and the Congress are ensured of an independent technical review and evaluation of nuclear reactor projects and safety issues and of an opportunity for stakeholder input.

20e. Why is it necessary to close and/or partially close committee meetings?

During this period, the Committee held 10 full Committee meetings, of these 10 meetings one meeting was partially closed to discuss information that was classified as "Confidential - Restricted Data - Government Sensitive" to protect information provided in confidence by a foreign source and the other meeting was partially closed to protect proprietary information (5 U.S.C. 552b(c)(4).

21. Remarks

None

Designated Federal Official: Michele S Kelton DFO

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Committee Members	Start	End	Occupation
Apostolakis, Dr. George E.	6/4/1995	6/2/2003	Professor, Nuclear Engineering Department, Massachusetts Institute of Technology
Bonaca, Dr. Mario V.	1/6/1999	1/5/2003	Retired Director, Nuclear Engineering Department, Northeast Utilities
Ford, Dr. Peter F.	3/23/2001	3/22/2005	Consultant and retired Program Manager, General Electric Research and Development Center
Kress, Dr. Thomas S.	9/4/1999	9/3/2003	Retired Head of Applied Systems Technology Section, Oak Ridge National Laboratory

Leitch, Mr. Graham 7/10/2000 7/9/2004 Retired Vice-President, Limerick Generating Station, PECO Energy; Retired Vice-President, В. Maine Yankee Atomic Power Co., Member, Offisite Safety Review Committee, Calvert Cliffs Nuclear Power Plant Powers, Dr. Dana A. 6/6/1998 6/5/2002 Senior Scientist, Nuclear Facilities Safety

Department, Sandia National Laboratories Rosen, Mr. Stephen 6/12/2001 6/11/2005 Retired Manager, Risk Management and Industry Relations, STP Nuclear Operating L. Company at South Texas Project Electric **Generating Station**

2/8/1997 2/7/2001 Professor Emeritus of Nuclear & Energy Seale, Dr. Robert L. Engineering, University of Arizona

Shack, Dr. William J. 8/1/2001 7/31/2005 Associate Director, Energy Technology Division, **Argonne National Laboratory**

7/12/1999 7/11/2003 Retired Senior Vice-President, Nuclear Power Sieber, Mr. John D. Division, Duquesne Light Company

Urig, Dr. Robert E. 8/25/1997 8/24/2001 Distinguished Professor, Nuclear Engineering Department, University of Tennessee

Wallis, Dr. Graham 1/23/1998 1/22/2002 Professor, Thayer School of Engineering, **Dartmouth College**

Total Count of Committee Members

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