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18b(3) Travel and Per Diem to Federal Staff \$16,476 \$22,0	18b(2) Travel and Per Diem to Federal Member	s				\$0		\$0	
	18b(3) Travel and Per Diem to Federal Staff					\$16,476		\$22,000	
18b(4) Travel and Per Diem to Non-Member Consultants \$11,716 \$13,0	18b(4) Travel and Per Diem to Non-Member Co	nsultants				\$11,716		\$13,040	
18c.Other(rents,user charges,graphics,printing,mail etc.) \$57,617 \$44,1	18c.Other(rents,user charges,graphics,printing,n	nail etc.)				\$57,617		\$44,147	
18d Total \$687,567 \$812,3	18d Total					\$687,567		\$812,325	
19. Federal Staff Support Years 4.0	19. Federal Staff Support Years					4.0		4.0	

# 20a. How does the Committee accomplish its purpose?

During FY 1999, the ACNW held nine meetings and wrote eight reports. To conduct its reviews, the ACNW meets regularly with the NRC staff, the industry, other government agencies, and interested members of the public and public interest groups. In addition, the Committee meets periodically with the NRC Commissioners to discuss issues of mutual interest. The Committee's work has impacted the NRC regulatory process significantly, including the Department of Energy's (DOE's) License Application Design Selection Process (LADS) and Recommended Recommended interest. The roman process (LADS) and Recommended selection process (LADS) and Recommended interest periodically with the regulatory besign; linear no threshold hypothesis; a review and evaluation of the NRC Safety Research Program, NUREG-1635, Vol. 2; DOE's viability assessment for the proposed high-level radioactive waste repository at Yucca Mountain, Nevada; the regulatory uses of importance measures for waste management and possible application to the proposed high-level radioactive waste repository at Yucca Mountain, Nevada; the development of a standard review plan for decommissioning, NRC's Draft 10 CFR Part 63 and Revision 0 of the Total System Performance Assessment Issue Resolution Status Report; issues and recommendations concerning the near-field environment, and the performance of engineered barriers at Yucca Mountain. The ACNW also provided to the NRC its 1999 action plan and priority issues and its metrics and self-assessment evaluation for FY 1998. The ACNW visited German Waste Isolation Authorities and Facilities on September 14-18, 1998, and provided its general observations and impressions on this visit.

# 20b. How does the Committee balance its membership?

The NRC appoints ACNW members from scientific and engineering disciplines with three prerequisites in mind: outstanding scientific and technical ability, balanced and mature judgment, and willingness to devote the time required to the demanding work involved. The pool of persons so qualified is limited. At the end of FY 1999, the Committee included two members from academia and two members from private industry. There has been a conscious effort to obtain members with backgrounds that can address the difficult and diverse questions associated with radioactive waste disposal. This permits and fosters a concentration of scientific proficiency within the Committee, together with a diversity of viewpoints and perspectives, that provides assurance that adequate, independent, and open discussion and analysis of the potential hazards of nuclear waste can take place. During FY 1999, the ACNW included engineers and scientists experienced in radioactive waste management, chemistry, nuclear engineering, risk assessment, environmental engineering, performance assessment, hydrology, mining engineering, research, and technical management. The diversity of viewpoints represented by current members is broadly based from the standpoint of special fields of interest, employment experience, and scientific or technical specialty. These characteristics provide the ACNW with a balance of highly qualified technical experts.

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

The ACNW held nine Full Committee meetings during FY 1999. The number of meetings held is directly related to the review schedule and scope of efforts on the high-level waste geologic repository, issues involving low-level waste disposal, the number of criteria, guides, and technical positions referred for review and comment, the number of special reviews requested by the NRC, and topics of particular concern/interest to the Committee. The Full Committee plans to meet approximately eight times during FY 2000. Full Committee meetings generally run two to three days and cover a variety of topics (review of the Yucca Mountain review plan and related NRC staff analysis, technical positions on high-level and low-level waste issues, briefings and reviews of rulemakings, etc.). For particularly complex issues, the ACNW holds working group meetings where additional time and expertise can be brought to bear on an issue and the subject developed prior to Full Committee considerations. If the ACNW is to continue to meet the requirements of its charter, it needs to meet with at least a similar frequency in the future. There is a continuing need for the technical advice provided by the ACNW to the Commission, particularly in the following areas: (a) the site suitability for the Yucca Mountain repository, (b) interim surface storage facilities, to the extent that programs are directed toward such facilities, (c) reassessment of regulatory standards for Yucca Mountain, (d) use of risk assessment communication in the regulatory process, and (e) site decommissioning. The ACNW will provide advice to the Commission on issues related to NRC's oversight of DOE facilities.

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

The ACNW is unique in that there exists no comparable body of acknowledged experts in the field of nuclear waste management whose mandate is to provide the Commission with independent advice in this area. The Commission necessarily has its own expert staff on whom it relies in its day-to-day operations. However, the Commission has no other advisory committee with the current, broadly based knowledge of the ACNW that could be called upon for independent assessment of safety issues related to high- and low-level waste management and disposal. In addition, since members are part-time advisors with other full-time interests and activities in related fields, they generate an organized synergistic approach to provide a breadth of experience, an independent perspective on issues, and state-of-the-art technical knowledge that would be difficult to duplicate with full-time government employees. A continuing committee such as the ACNW also remains current with respect to nuclear waste issues, including related safety research, and provides a collegial judgment regarding these issues that would be impossible to duplicate by use of individual, part-time consultants on a case-by-case basis. Through the ACNW, the public is provided assurance that an independent technical review and evaluation of nuclear waste safety issues is accomplished and an opportunity for public input is assurate.

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

During this period, the Committee held nine Full Committee meetings. All portions of these meetings were open to public attendance.

21. Remarks NONE

Designated Federal Official: Michele Kelton DFO

**Committee Members** 

Fairhurst, Dr. Charles

Garrick, Dr. B. John Hornberger, Dr. George M.

Wymer, Dr. Raymond G.

Total Count of Committee Members

### Occupation

Professor Emeritus of Civil Engineering,University of Minnesota and Senior Engineer/Chairman of the Board, Itasca Consulting Group, Inc. Consultant Professor, Dept. of Environmental Sciences, University of Virginia Ratired Distinguished Scientist in the International Tashnology Programs Divisio

Retired, Distinguished Scientist in the International Technology Programs Division of Martin Marietta Energy Systems, Inc.

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1999 Annual Report: Review of Federal Advisory Committee

Committee Menu

12/16/1999 3:00:35 PM					
1. Department or Agency					2. Fiscal Year
<b>Nuclear Regulatory Commission</b>					1999
3. Committee or SubCommittee				3b. GSA C	Committee No.
Advisory Committee on Reactor Safeg	uards				207
4. Is this New During Fiscal Year? No	5. Current Charter 12/23/1996	6. Expe	cted Renewal Date	7. Expected Te	erm Date
8a. Was Terminated During FY?	8b. Specific T	ermination Authority		8c.Actual Terminati	ion Date
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9. Agency Recommendation for Next F1	Toa.Legistati	No	1	ob.Legislation Pending?	
11. Establishment Anthenia	Statutow (Congress Created)	RU			
12. Secol Se Feteblickment Authority	Statutory(Congress Created)	Dete	14 Committee Terre	14 - Dunnida	
12. Specific Establishment Authority 42 U.S.C. Soct. 2030 & 2	13. Effect	1057	Continuing	14c. Preside	ntiar;
15. Description of Committee	Scientific Technical Program Board	n Advisory	Continuing	110	
16a. Total Number of Reports	Donia	54			
16b. Report Titles and Dates					
Risk-Informed Pilot Application for H	ydrogen Monitoring at Arkans	as Nuclear One, Ui	nits 1 and 2		10/14/1998
Proposed Priority Rankings of Generic	: Safety Issues: Tenth Group				10/16/1998
The Nuclear Energy Institute's Petition	1 for Rulemaking to Amend Pa	ragraph (a) of 10 C	CFR 50.54, Conditions	of Licenses	10/20/1998
Proposed Inspection Procedure 35XXX	, "Graded Quality Assurance"				11/13/1998
Proposed Revision to the Enforcement	Policy				11/17/1998
Proposed Rule on Use of Alternative So	ource Term at Operating Reac	tors	NAMES OF STREET, AND A DESCRIPTION		11/19/1998
Safety Evaluation Rpt. Rel to Westingh Topical Rpt. (WCAP-14572, Rev. 1)	iouse Owners Grp. Application	of Risk-Informed	Methods to Inservice I	nspection of Piping,	11/20/1998
Reprioritization and Proposed Resolution of Generic Safety Issue 171, "Engineered Safety Features Failure from Loss-of-Offsite-Power Subsequent to a LOCA"					
<b>Options for Incorporating Risk Insight</b>	s Into the 10 CFR 50.59 Proces	5S			12/11/1998
Proposed Commission Paper Concerning Options for Risk-Informed Revisions to 10 CFR Part 50, "Domestic Licensing of Production and Utilization Facilities"					12/14/1998
Proposed Improvements to the NRC Inspection and Assessment Programs - Interim Report					
List of Questions to be Addressed for Possible Resolution of Key Issues Associated with the Proposed Revision to 10 CFR 50.59 (Changes, Tests and Experiments)					
NFPA 805, "Performance-Based Stand	ard for Fire Protection for Lig	ht Water Reactor	Electric Generating Pla	ants"	2/18/1999
Resolution of Generic Safety Issue B-61	l, "Allowable ECCS Equipmer	it Outage Periods"			2/19/1999
SECY-98-244, "NRC Human Performa	ince Plan"				2/19/1999
Proposed Improvements to the NRC Inspection and Assessment Programs					
Experiments"	Cevisions to 10 CFR Parts 50, 5	52, and 72: Require	ments Concerning Ch	anges, rests and	3/22/1999
Lessons Learned from the ACRS Pavie	w of the AP600 Design				3/22/1999
Lessons Learned from the ACKS Review of the AP600 Design 3/22 Proposed A mondmont to 10 CED 50 72 Jumediate NotiGration and 50 72 Junear Event Departing System 2/2					
Cuidance Memorandum for Implementation of the Revised Enforcement Policy					
Application of Westinghouse Rest-Estimate Loss-of-Coolant Accident Analysis Methodology to Upper Dianum Injection Plants 2/24/1999					
High Burnun Fuel Phenomena Identification and Ranking 3/24/1999					
Pronosed ASMF Standard for Probabilistic Risk Assessment for Nuclear Power Plant Applications (Phase 1) 3/25/1000					
Proposed Final Revision to 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear Power 4/					4/14/1999
SECY-99-017, "Proposed Amendment to 10 CFR 50.55a" 4/19/199					
Reevaluation of Generic Safety Issue Process					
Status of Efforts on Revising the Commission's Safety Goal Policy Statement					
Status of Resolution of Steam Generator Tube Integrity Issues					
Proposed Revisions to the NRC Generic Communications Process 4/23.					4/23/1999
Modified Proposed Final Revision to 10 CFR 50.65, "Requirements for Monitoring the Effectiveness of Maintenance at Nuclear 5/11/199 Power Plants"					
Proposed Resolution of Generic Safety Issue-158, "Performance of Safety-Related Power-Operated Valves Under Design Basis Conditions" 5/14/19					5/14/1999
Use of Mixed Oxide Fuel in Commercia	al Nuclear Power Plants				5/17/1999
Proposed Final Rule - Revisions to 10 C	CFR Parts 50 and 72 Concernin	ng Changes, Tests,	and Experiments		5/17/1999
fhe Role of Defense in Depth in a Risk-Informed Regulatory System         5/19/199					

SF	820	

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Interim Letter on the Safety Aspects of the Baltimore Gas and Electric Con Nuclear Power Plant, Units 1 & 2	mpany's License Renewal Application for Calvert Cliffs	5/19/1999				
Modifications Proposed by the Westinghouse Owners Group to the Core Damage Assessment Guidelines and Post Accident Sampling System Requirements						
Sampling System Requirements Proposed Resolution of Canaria Safaty Issue 165. "Spring Actuated Safaty and Paliaf Value Paliability"						
Froposed Resolution of Generic Safety Issue-105, Spring-Actuated Safety and Reflet Valve Reliability						
Pilot Application of Rev. Inspection and Assmnt. Programs. Risk-Rased Pe	rformance Indicators, and Performance-Based	0//////////////////////////////////////				
Regulatory Initiatives and Related Matters	To mance indicators, and renormance based	6/10/1999				
Development of a Low-Power and Shutdown Risk Assessment Program						
Proposed Options for Using Averted Onsite Costs and Voluntary Initiative	s in Regulatory Analyses	6/11/1999				
SECY-99-148, "Credit for Existing Programs for License Renewal"		7/19/1999				
Proposed Final Regulatory Guide 1.181, "Content of the Updated Final Sat 50.71(e)"	fety Analysis Report in Accordance with 10 CFR	7/21/1999				
Proposed Revision 3 to Regulatory Guide 1.160 (DG-1072), "Assessing and Nuclear Power Plants"	Managing Risk Before Maintenance Activities at	7/21/1999				
Revision of Appendix K, "ECCS Evaluation Models," to 10 CFR Part 50		7/22/1999				
Proposed Final Amendment to 10 CFR 50.55a, "Codes and Standards"		7/23/1999				
Interim Letter Related to the License Renewal of Oconee Nuclear Station		9/13/1999				
Proposed Final Revision 3 to Regulatory Guide 1.105, "Setpoints for Safety	-Related Instrumentation"	9/13/1999				
Safety Evaluation Report Rel. to Electric Power Research Institute Risk-In TR-112657, Rev. B, July 1999)	formed Methods to Inservice Inspection of Piping (EPR)	9/15/1999				
Prop. Rev. 1 to Reg. Guide 1.78 (DG-1087), "Evaluating the Habitability of Postulated Hazardous Chemical Release"	a Nuclear Power Plant Control Room During a	9/16/1999				
Proposed Resolution of Generic Safety Issue-145, "Actions to Reduce Comp	mon Cause Failures''	9/17/1999				
Modifications Proposed by the Westinghouse Owners Group to the Core Da Sampling System (PASS) Requirements	amage Assessment Guidelines and Post Accident	9/17/1999				
Proposed Final Rule on Use of Alternative Source Term at Operating React Review Plan	tors, Associated Draft Regulatory Guide, and Standard	9/17/1999				
17a Open: 42 17b. Closed: 0	17c. Partially Closed: 5 17d. Total M	leetings 47				
Meeting Purposes and Dates						
456th Full Committee Meeting	9/30/1998 10/2/1998					
Joint Reliability & Probabilistic Risk Assessment and Regulatory Policies & Practices	10/29/1998 10/29/1998					
457th Full Committee Meeting	11/4/1998 11/7/1998					
Planning & Procedures	11/4/1998 11/4/1998					
Plant License Renewal	11/18/1998 11/18/1998					
Thermal-Hydraulic Phenomena	11/19/1998 11/19/1998					
Jt. Reliability & Probabilistic Risk Assessment and Plant Operations	11/19/1998 11/20/1998					
Planning & Procedures	12/2/1998 12/2/1998					
458th Full Committee Meeting	12/3/1998 12/5/1998					
Thermal-Hydraulic Phenomena	12/16/1998 12/17/1998					
Fire Protection	1/20/1999 1/20/1999					
Reliability & Probabilistic Risk Asessment	1/25/1999 1/25/1999					
Jt. Reliability & Probabilistic Risk Assessment and Plant Operations	1/26/1999 1/26/1999					
Planning & Procedures	2/2/1999 2/2/1999					
459th Full Committee Meeting	2/3/1999 2/6/1999					
Thermal-Hydraulic Phenomena	2/23/1999 2/23/1999					
Planning & Procedures	3/9/1999 3/9/1999					
460th Full Committee Meeting	3/10/1999 3/13/1999					
Thermal-Hydraulic Phenomena	3/23/1999 3/23/1999					
Materials & Metallurgy	5/24/1999 5/25/1999 1/c/1999 4/c/1999					
Planning & Procedrues	4/6/1999 4/6/1999					
JI. Keliability & Probabilistic Kisk Assessment and Regulatory Policies & Practices	4/7/1999 4/7/1999					
461st Full Committee Meeting	4/7/1999 4/10/1999					
Jt. Reliability & Probabilistic Risk Assessment and Regulatory Policies & Practices	4/21/1999 4/21/1999					
Plant License Renewal	4/28/1999 4/29/1999					
Severe Accident Management	4/30/1999 4/30/1999					
Safety Research Program	5/4/1999 5/4/1999					
Jt. Reliability & Probabilistic Risk Assessment and Materials & Metallurgy	5/5/1999 5/5/1999					
Planning & Procedures	5/5/1999 5/5/1999					
402nd Full Committee Meeting	5/5/1999 5/8/1999					
JL Advisory Committee on Reactor Safeguards and Advisory Committee on Nuclear Waste Working Grp.	5/11/1999 5/11/1999					
Thermal-Hydraulic Phenomena	5/26/1999 5/27/1999					
Severe Accident Management	5/27/1999 5/27/1999					

Next Fiscal Year

\$580,678

\$29,120

\$164,900

\$7,000

\$70,604

20.8

\$2,843,316

\$0 \$1,973,554

> \$0 \$17,460

SF 820

Severe Accident Management	5/27/1999 5/27/1999
463rd Full Committee Meeting	6/2/1999 6/4/1999
Jt. Plant Operations and Fire Protection	6/23/1999 6/23/1999
Plant License Renewal	6/30/1999 7/1/1999
Jt. Reliability & Probabilistic Risk Assessment and Regulatory Policies and Practices	7/13/1999 7/13/1999
Planning & Procedures	7/13/1999 7/13/1999
464th Full Committee Meeting	7/14/1999 7/16/1999
Severe Accident Management	8/9/1999 8/10/1999
Planning & Procedures	8/31/1999 8/31/1999
465th Full Committee Meeting	9/1/1999 9/3/1999
Thermal-Hydraulic Phenomena	9/15/1999 9/16/1999
Severe Accident Management	9/16/1999 9/17/1999
Plant License Renewal	9/23/1999 9/23/1999
Jt. Reliability & Probabilistic Risk Assessment and Regulatory Policies & Practices	9/23/1999 9/24/1999
Planning & Procedures	9/29/1999 9/29/1999
	Current Fiscal Year
18a(1) Personnel Pmts to Non-Federal Members	\$554,082
18a(2) Personnel Pmts to Federal Members	\$0
18a(3) Personnel Pmts to Federal Staff	\$1,880,825
18a(4) Personnel Pmts to Non-member Consultants	\$14,618
18b(1) Travel and Per Diem to Non-Federal Members	\$228,018
18b(2) Travel and Per Diem to Federal Members	\$0

18b(3) Travel and Per Diem to Federal Staff 18b(4) Travel and Per Diem to Non-Member Consultants 18c.Other(rents,user charges,graphics,printing,mail etc.)

18d Total

19. Federal Staff Support Years

20a. How does the Committee accomplish its purpose?

As required by statute, the ACRS performs independent reviews of safety issues associated with the operating nuclear power plants, adequacy of new reactor designs, license renewal applications, and safety-related technical issues associated with new designs and provides valuable and timely advice to the NRC on these matters. During FY 1999, the ACRS completed 54 reports, which included its annual report to the Commission on the NRC Safety Research Program (NUREG-1635, Volume 2) and held 10 Full Committee meetings and 37 Subcommittee meetings. In conducting its reviews, the ACRS meets regularly with the NRC staff, industry, other government agencies, public interest groups, and interested members of the public. The ACRS and NRC staff interact under procedures established by a Memorandum of Understanding, which gives the ACRS the opportunity to review a broad range of NRC regulatory actions. In addition, the ACRS has periodic meetings with the NRC commissioners and with individual NRC office directors to discuss issues of mutual interest. The ACRS was particularly effective in providing timely advice to the Commission on several important issues, including: safety aspects of the Baltimore Gas and Electric Company's License Renewal Application for Calvert Cliffs Nuclear Power Plant, Units 1 and 2; license renewal of Oconee Nuclear Station, Units 1, 2, and 3; credit for existing programs for license renewal; proposed mintenance at Nuclear Power Plants;" proposed final revision to 10 CFR 50.65, "Codeus and Standards," proposed final revision to 10 CFR 50.59 process, list of questions to be addressed for possible resolution of key issues associated with the proposed revisions to the 10 CFR 50.59 process, list of questions to be addressed for possible resolution of key issues associated with the proposed revision to 10 CFR 50.59 process, list of questions to be addressed for possible resolution of key issues associated with the proposed revision to 10 CFR 50.59 process, list of diffor prorbabilistic risk assessment fo

\$22,767

\$6,491

\$94,540

21.8

\$2,801,341

# 20b. How does the Committee balance its membership?

The NRC appoints ACRS members from the scientific and engineering disciplines with three prerequisites in mind: outstanding scientific and technical ability, balanced and mature judgment, and willingness to devote the time required to the demanding work involved. There has been a conscious effort to obtain members trained in both nuclear and nonnuclear disciplines who have had considerable experience in various fields needed to evaluate design, construction, and operation of nuclear power plants and related facilities. During FY 1999, the membership 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; mechanical, civil, and electrical engineering; materials and metallurgy; thermal-hydraulics and computational fluid dynamics; and digital instrumentation and control systems. The diversity of viewpoints represented by current members is broadly based from the standpoint of special fields of interest, employment experience, and scientific or technical speciality. These membership characteristics provide the Committee with a balance of highly qualified technical experts in the nuclear fields necessary to carry out the Committee's statutory requirements.

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

The ACRS and its Subcommittees held 47 meetings during FY 1999 of which 10 were Full Committee meetings. The number of meetings held is directly related to the number of nuclear safety matters reviewed by the Committee that were referred to it by the NRC or required by statute; the number of generic issues that arose during the year; the number of rules, and regulatory guidance referred to the Committee for review and comment; the number of special reviews requested by the NRC Commissioners and Congress; and areas of particular interest/concern to the Committee. The Full Committee normally meets ten times a year for three or four days to consider various safety-related nuclear issues, generic and special reviews, rules, and regulatory guidance. ACRS Subcommittees meet as necessary with licensees, NRC staff, nuclear industry groups, other government agencies, and other interested parties to develop information for the Committee on the particular matters under review and to identify those matters warranting particular attention by the Full Committee. There is a continuing need for the technical advice provided by the ACRS to the Commission particularly in its transition from prescriptive to risk-informed and performance-based regulation and its need to review new reactor designs.

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

The ACRS is unique in that there exists no comparable body composed of acknowledged experts in the field of nuclear reactor safety whose Congressional mandate is to provide the Commission with independent advice in this area. Upon request, the ACRS also provides advice to the U.S. Navy, the Department of Energy, and the Nuclear Facilities Safety Board. This further demonstrates the unique qualifications of the ACRS within the Federal government. The Commission necessarily has its own expert staff on whom it relies in the day-to-day regulation of nuclear power facilities. However, no other advisory committee, either within the Commission or in other agencies, has the current, broadly based knowledge of the ACRS that can provide independent assessments of reactor safety issues. In addition, since ACRS members are primarily part-time advisors with other full-time interests and activities in related fields, they provide a breadth of experience, an independent perspective on issues, and state-of-the-art technical knowledge that would be difficult to duplicate with full-time government employees. A continuing Committee such as the ACRS also remains current with respect to nuclear safety issues, including those related to reactor operating experience and safety research, and provides a collegial judgment regarding these issues that part-time consultants could not provide. Through the ACRS, the public and the Congress are assured of an independent technical review and evaluation of nuclear reactor projects and safety issues and of an opportunity for public input.

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

During this period, the Committee held 10 full Committee meetings during which Committee business of the usual nature was conducted. Portions of these meetings were closed and time spent in closed sessions occupied approximately 1 hour 30 minutes. This session was closed to discuss: information provided in confidence by a foreign source [5 U.S.C. 552b(c)(4)].

21. Remarks

None

Designated Federal Official: Michele S Kelton DFO

Committee Members Apostolakis, Dr. George E. Barton, Mr. John J. Bonaca, Dr. Mario V. Fontana, Dr. Mario H. Kress, Dr. Thomas S. Miller, Dr. Don W. Powers, Dr. Dana A. Seale, Dr. Robert L. Shack, Dr. William J. Sicber, Mr. John D.

Uhrig, Dr. Robert E. Wallis, Dr. Graham B.

Total Count of Committee Members

Occupation

Professor, Nuclear Engineering Department, Massachusetts Institute of Technology
Retired Vice-President, GPU Nuclear Corporation
Retired Director, Nuclear Engineering Department, Northeast Utilities
Adjunct Professor, Nuclear Engineering Department, University of Tennessee
Retired Head of Applied Systems Technology Section, Oak Ridge National Laboratory
Professor and Chair, Nuclear Engineering Department, Ohio State University
Senior Scientist, Nuclear Facilities Safety Department, Sandia National Laboratories
Professor Emeritus of Nuclear & Energy Engineering, University of Arizona
Associate Director, Energy Technology Division, Argonne National Laboratory
Retired Senior Vice-President, Nuclear Power Division, Duquesne Light Company
Distinguished Professor, Nuclear Engineering Department, University of Tennessee
Professor, Thayer School of Engineering, Dartmouth College
12

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#### Committee Menu 1999 Annual Report: Review of Federal Advisory Committee 12/15/1999 4:06:12 PM 1. Department or Agency 2. Fiscal Year **Nuclear Regulatory Commission** 1999 3. Committee or SubCommittee 3b. GSA Committee No. Licensing Support System Advisory Review Panel 1104 5. Current Charter 4. Is this New During Fiscal Year? 6. Expected Renewal Date 7. Expected Term Date 12/19/1996 12/17/2000 12/20/2005 No 8a. Was Terminated During FY? 8b. Specific Termination Authority 8c Actual Termination Date 42 U.S.C. 2201 No 9. Agency Recommendation for Next FY 10a.Legislation Req to Terminate? 10b.Legislation Pending? Continue 11. Establishment Authority Agency Authority 13. Effective Date 12. Specific Establishment Authority 14. Committee Type 14c. Presidential? 42 U.S.C. 2201 1/19/1975 Continuing No Non Scientific Program Advisory 15. Description of Committee Board 16a. Total Number of Reports No Reports for this Fiscal Year. 17d. Total Meetings No Meetings for this Fiscal Year. Current Fiscal Year Next Fiscal Year 18a(1) Personnel Pmts to Non-Federal Members \$0 \$0 18a(2) Personnel Pmts to Federal Members \$0 \$0 \$0 18a(3) Personnel Pmts to Federal Staff \$0 18a(4) Personnel Pmts to Non-member Consultants \$0 \$2,140 18b(1) Travel and Per Diem to Non-Federal Members \$0 \$0 18b(2) Travel and Per Diem to Federal Members \$0 \$7,090 18b(3) Travel and Per Diem to Federal Staff \$0 \$7,200 18b(4) Travel and Per Diem to Non-Member Consultants \$0 \$0 18c.Other(rents,user charges,graphics,printing,mail etc.) \$0 \$1,820 18d Total \$0 \$18,250 19. Federal Staff Support Years 0.0 0.0

20a. How does the Committee accomplish its purpose?

The Department of Energy and the Nuclear Regulatory Commission continue to rely heavily upon the Licensing Support Network Advisory Review Panel (LSNARP) for advice and recommendations on a searchable electronic database for documents that will be pertinent to the licensing of a geologic repository for the storage of high level nuclear waste in 2002. During this reporting period, the LSNARP's efforts were concentrated primarily on refocusing technology designs to reflect changes to 10 CFR Part 2, Subpart J. The revisions to the Rule permit better utilization of technology advances which allow use of the Internet to search and retrieve appropriate documents in dispersed locations rather than in a centralized database.

20b. How does the Committee balance its membership?

The membership of the LSSARP is balanced by being drawn from among the full spectrum of potential parties to NRC's anticipated licensing proceeding for the burial of high level radioactive waste. Since the burial site under review is in Nevada, the membership includes the State of Nevada, local county governments of both Nevada and California, Indian tribes, represented by the National Congress of American Indians and the Nevada Nuclear Waste Task force. It also includes the nuclear industry, the potential licensee (DOE) and the licensing agency (NRC). Input by these representatives is essential to the success of the LSS project.

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

The Rule was revised in early part of FY99 (Jan.). Panel was renamed from Licensing Support System (LSS) to Licensing Support Network (LSN) to reflect the inherent use of the internet for accessing the relevant documents used in the discovery process. The Commission reassigned responsibility to the Atomic Safety and Licensing Board Panel (ASLBP) and staffed the LSN Administrator position and reconvened the LSNARP. Preparations were made for resuming LSNARP meetings in October 1999. The level of LSNARP activity is expected to remain at a moderate level during FY00 in order to provide advice on the establishment of Internet sites and access protocols for each of the participants database of materials relevant to the anticipated licensing proceeding.

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

The advice provided by the state, county and tribal governmental units, together with other potential users of the LSS, is unique to this particular computer application. It is not available from other existing committees or from NRC itself. NRC considers it essential that such advice should come from these entities which will be hands-on users of LSS. The NRC sought, during this reporting period, public comment on establishing an informal users group as an alternative to this committee. Since public comment favored retention of this committee, however, the Commission has determined to retain it. During the next reporting period, the Commission plans to rename the Panel as the Licensing Support Network Advisory Review Panel.

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

The LSSARP did not hold any closed meetings in FY 1999.

21. Remarks

NONE

Designated Federal Official: John C. Hoyle DFO

Committee Members Bechtel, Dennis Bradshaw, Les Cain, Tony Cameron, Wayne Clark, Ray Copenhafer, David Culverwell, Eve Cummings, Peter Elquist, Bill Fiorenzi, Leonard Frishman, Steve Funk, Arlo Goichoechea, Pete J Henkel, Christopher Hoffman, Juanita Holden, Robert Hoyle, John C Kall, Alan Kolkman, Debra Kraft, Steven Manzini, Tammy Metoxen, Loretta Mettam, Brad Murphy, Malachy Newbury, Claudia Regan, James Remus, Andrew Silberg, Jay Swainston, Harry Treichel, Judy Wallace, Jackie Total Count of Committee Members

Occupation Clark County, Nevada Nye County, Nevada Esmeralda County, Nevada White Pine County, Nevada **US EPA U.S. Securities and Exchange Commission** Lincoln County, Nevada City of Los Vegas, Nevada Lander County, Nevada Eureka County, Nevada State Of Nevada Mineral County, Nevada Eureka County, Nevada Nuclear Energy Institute - Energy Coalition Esmeralda County, Nevada National Congress of American Indians **US Nuclear Regulatory Commission** Churchill County, Nevada White Plan County, Nevada Nuclear Energy Institute - Energy Coalition Lander County Nevada National Congress of American Indians Inyo County, Nevada Nye County, Nevada **US Department of Energy** Churchill County, Nevada Inyo County, Nevada Attorney - Industry Coalition State of Nevada Nevada Nuclear Waste Task Force Mineral County, Nevada 31

#### Committee Menu 1999 Annual Report: Review of Federal Advisory Committee 12/15/1999 4:01:45 PM 1. Department or Agency 2. Fiscal Year **Nuclear Regulatory Commission** 1999 3. Committee or SubCommittee 3b. GSA Committee No. Pilot Program Evaluation Panel 5287 5. Current Charter 4. Is this New During Fiscal Year? 6. Expected Renewal Date 7. Expected Term Date 6/30/1999 Yes 6/29/2001 6/30/2001 8a. Was Terminated During FY? 8c.Actual Termination Date 8b. Specific Termination Authority 42 U.S.C. 2201 No 9. Agency Recommendation for Next FY 10a.Legislation Req to Terminate? 10b.Legislation Pending? Continue 11. Establishment Authority **Agency Authority** 12. Specific Establishment Authority 13. Effective Date 14. Committee Type 14c. Presidential? 42 U.S.C. 2201 1/19/1975 Ad Hoc No Scientific Technical Program Advisory 15. Description of Committee Board 16a. Total Number of Reports No Reports for this Fiscal Year. 17a Open: 2 17b. Closed: 17c. Partially Closed: 17d. Total Meetings 2 0 0 Meeting Purposes and Dates Organizing Meeting and Discussion of Pilot Program Evaluation Process 7/28/1999 7/28/1999 Discussion on Initial Results of Pilot Plant Inspections and Need for 8/17/1999 8/17/1999 **Data Analysis** Current Fiscal Year Next Fiscal Year 18a(1) Personnel Pmts to Non-Federal Members \$0 \$0 \$0 18a(2) Personnel Pmts to Federal Members \$0 \$30,000 \$60,000 18a(3) Personnel Pmts to Federal Staff 18a(4) Personnel Pmts to Non-member Consultants \$0 \$0 18b(1) Travel and Per Diem to Non-Federal Members \$1,712 \$6,400 18b(2) Travel and Per Diem to Federal Members \$0 \$0 \$520 \$0 18b(3) Travel and Per Diem to Federal Staff 18b(4) Travel and Per Diem to Non-Member Consultants \$0 \$0 18c.Other(rents,user charges,graphics,printing,mail etc.) \$0 \$0 18d Total \$32,232 \$66,400 19. Federal Staff Support Years 0.3 0.5

20a. How does the Committee accomplish its purpose?

The NRC has developed a revised regulatory oversight process for commercial nuclear power plants. The new risk-informed baseline inspection program, a new streamlined assessment process, and a new enforcement policy form the basis for this oversight program. The Commission instituted a pilot program that would be performed at two sites per region to exercise these new oversight processes prior to full implementation. The PPEP functions as a management-level, cross-disciplinary oversight group to independently monitor and evaluate the results of the pilot effort. The PPEP meets periodically during the pilot program to review the implementation of the oversight processes and the results generated by the PI reporting, baseline inspection, assessment, and enforcement activities. These meetings are publically announced in advance, open to the public, and all material reviewed is placed in the public document room. A meeting summary will be prepared following each meeting to document the results of the meeting. The PPEP will evaluate the pilot program results against established success criteria. For those success criteria that are intended to measure the effectiveness of the processes, and that generally do not have a quantifiable performance measure, the PPEP will serve as an "expert panel" to review the results and evaluate how well the success criteria were met. At the end of the pilot program, the PPEP members will provide an evaluation as to whether each of the success criteria have been met. This PPEP will include both the consensus view of the panel, along with the dissenting views of any of the panel members. The staff will use the PPEP evaluation to determine the need for any additional process development or improvements prior to full implementation.

20b. How does the Committee balance its membership?

The PPEP is balanced by including participants from NRC headquarters and regional management, a representative from the Nuclear Energy Institute, pilot plant licensee management representatives, a representative from the Union Of Concerned Scientists, and a representative from the Illinois Department of Nuclear Safety.

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

Meetings are held bi-monthly. A Final report is expected in April 2000.

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

The cross section of representatives from NRC, Licensee, and Public Interest Groups provides an excellent overview for the NRC revisions to its regulatory process.

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

Not applicable.

21. Remarks

None

Designated Federal Official: TBD

Committee Members Bajestani, Masoud Barnes, George Brockman, Kenneth Chase, James Floyd, Steve Gaarchow, David Gillespie, Frank Grant, Geoffrey Hahn, Heidi Lieberman, James Lochbaum, David Mallet, Bruce Thadani, Mohan Wiggins, James Wright, Gary Total Count of Committee Members

Occupation **Tennessee Valley Authority Commonwealth Edison Company** US NRC **Omaha Public Power District** Nuclear Energy Institute Public Service Electric and Gas US NRC US NRC Los Alamos National Laboratory USNRC **Union Of Concerned Scientists** US NRC US NRC **US NRC** Illinois Department Of Nuclear Safety 15

Committee Menu

1999 Annual Report: Rev	iew of Federa	al Advisor	y Committ	ee	Committee Menu
12/15/1999 4:35:52 PM					
1. Department or Agency					2. Fiscal Year
Nuclear Regulatory Commission					1999
3. Committee or SubCommittee					3b. GSA Committee No.
Advisory Committee on the Medical U	Jses of Isotopes				1102
4. Is this New During Fiscal Year?	5. Current Ch	arter	6. Expec	ted Renewal Date	7. Expected Term Date
No	4/4/1998	3		4/4/2000	4/5/2004
8a. Was Terminated During FY?		8b. Specific Terr	nination Authority		8c.Actual Termination Date
No		42 U.S	.C. 2201		
9. Agency Recommendation for Next FY		10a.Legislation	Req to Terminate?		10b.Legislation Pending?
Continue		r	No		
11. Establishment Authority	Agency Autho	rity			
12. Specific Establishment Authority		13. Effective	Date	14. Committee Type	14c. Presidential?
42 U.S.C. 2201		7/1/195	58	Continuing	No
15. Description of Committee	Scientific Techn Board	ical Program A	Advisory		
16a. Total Number of Reports			3		
16b. Report Titles and Dates					
SUMMARY of DISCUSSION: Public	Meeting of ACMUI	<b>Diagnostic Su</b>	bcommittee held	2/23-24/1999	3/1/1999
Summary of Discussion: Public Meetin	ng of ACMUI Thera	ipy Subcommi	ttee held 2/25-26	/1999	3/1/1999
Minutes of ACMUI Meeting held 3/24-	-25/1999				4/1/1999
17a Open:	3 17b. C	losed: 0	17c. Partiall	ly Closed: 1	17d. Total Meetings 4
Meeting Purposes and Dates					
Diagnostic Subcommittee Meeting			2/23/1999 2/2	4/1999	
Meeting of Therapy Subcommittee			2/25/1999 2/2	6/1999	
Full Committee Meeting			3/24/1999 3/2	5/1999	
Meeting with NRC Commissioners to	provide Advice on <b>N</b>	<b>Aedical Rule</b>	3/25/1999 3/2	5/1999	
				Current Fiscal Year	Next Fiscal Year
18a(1) Personnel Pmts to Non-Federal Member	rs -			\$13,382	\$30,000
18a(2) Personnel Pmts to Federal Members				\$0	\$0
18a(3) Personnel Pmts to Federal Staff			\$96,000	\$101,000	
18a(4) Personnel Pmts to Non-member Consult		\$12,365	\$15,000		
18b(1) Travel and Per Diem to Non-Federal Me		\$8,753	\$10,000		
18b(2) Travel and Per Diem to Federal Membe	rs			\$0	\$0
18b(3) Travel and Per Diem to Federal Staff				\$0	\$0
18b(4) Travel and Per Diem to Non-Member C	onsultants			\$4,921	\$5,000
18c.Other(rents,user charges,graphics,printing,	<u>S0</u>				
18d Total				\$135,421	\$161,000
19. Federal Staff Support Years				1.5	1.5
20a. How does the Committee accomplish its p	urpose?				

The NRC staff believes that both licensees and the general public benefit when recognized experts provide advice to the staff on medical issues in which NRC's standards may be unclear or inapplicable and when these experts can provide advice on rulemaking and other initiatives at critical stages throughout their development. The Staff provides a summary of the issues to be addressed during the meeting. The ACMUI discusses the issues and makes recommendations to the Staff. In addition, working groups and subcommittees are formed to discuss certain issues in more depth than can be accomplished during a regular meeting.

20b. How does the Committee balance its membership?

As of October 1, 1999, the ACMUI consists of the following: a physician representing nuclear cardiology, one physician practicing nuclear medicine, one medical physicist in diagnostics, one health care administrator, one patients' rights and care advocate, a food and Drug Administration representative, and a State representative. Currently five more positions are authorized and being selected. These positions will represent radiation oncology (two positions), medical physics in radiation therapy, nuclear pharmacy, and a radiation safety officer.

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

The Committee generally meets semi-annually. The Commission may request the Committee to come in annually to brief the Commission. There also may be a need for subcommittee meetings periodically.

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

The Committee is composed of individuals with specialized degrees and who are actively involved in the medical field, i.e., physicians, medical physicists, and nuclear pharmacists. The necessary advice provided by the ACMUI cannot be obtained from other sources within the NRC. To develop and maintain an in-house capability to match the quality and quantity of expert advice embodied in the advisory committee would be difficult, if not impossible. There appear to be no other sources within the NRC or elsewhere which have the individual expertise capable of providing the in-depth advice needed.

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

Annual ethics briefings are conducted. During these meetings, private information is available for committee members, but is not available to the public. The ethics briefing portion of the meeting is closed to the general public.

d.

21. Remarks None Designated Federal Official: Betty Ann Torres DFO Committee Members Alazraki, Dr. Naomi Cerqueira M.D., Manuel Flynn M.D., Dr. Daniel F. Graham, Mr. John Hobson, Nekita Jones M.D., Dr. A. Eric McBurney, Ruth Nelp M.D., Dr. Wil B. Stitt M.D., Dr. Judith Anne Swanson M.S., BCNP, Mr. Dennis P. Wagner Ph.D., Dr. Louis K. Walkup, Ms. Theresa Total Count of Committee Members

Occupation Nuclear Medicine Physician Nuclear Cardiologist Radiation Oncologist Hospital Administrator Patient Advocate Food and Drug Administration Representative State Representative Nuclear Medicine Physician - Research Radiation Oncologist Nuclear Pharmacist Medical Physicist - Nuclear Medicine Certified Medical Dosimetrist

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