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PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

ENERGY DIVISION

**Item #20 (Rev. 1)
Agenda ID #12972
RESOLUTION E-4657
June 12, 2014**

RESOLUTION

Resolution E-4657. Confirmation of candidates for appointment by the California Governor to the Diablo Canyon Independent Safety Committee (DCISC) for a three-year term beginning July 1, 2014.

PROPOSED OUTCOME:

- The California Public Utilities Commission (CPUC) ratifies the President's selection of Dr. Per F. Peterson for consideration by the Governor for reappointment to the DCISC, and Mr. Paul M. Blanch, Dr. Charles A. Casto, and Dr. Michael D. Quinn for consideration by the Governor for appointment to the DCISC.

SAFETY CONSIDERATIONS:

- The appointed candidate will serve a three-year term on the DCISC, which is responsible for reviewing operations at PG&E's Diablo Canyon Power Plant for the purpose of assessing the safety of operations and suggesting any recommendations for safe operations.

ESTIMATED COST:

- None.

As required by Decision (D.) 07-01-028 dated January 25, 2007.

SUMMARY

This Resolution ratifies the California Public Utilities Commission (CPUC) President's selection of Dr. Per F. Peterson as a candidate for reappointment to the Diablo Canyon Independent Safety Committee (DCISC), and Mr. Paul M. Blanch, Dr.. Charles A. Casto, and Dr. Michael D. Quinn for

appointment to the DCISC for a three-year term commencing on July 1, 2014. The appointing authority is the Governor of California.

BACKGROUND

The DCISC independently monitors the operations of Pacific Gas and Electric Company's Diablo Canyon Power Plant.

The CPUC created the DCISC in Decision (D.)88-12-083 as part of the overall settlement of the ratemaking issues for the Diablo Canyon Power Plant (DCPP), which is owned and operated by Pacific Gas and Electric Company (PG&E). The DCISC is an independent, three-member committee responsible for monitoring the safety of PG&E's operation of DCPP. The DCISC's budget is paid out of PG&E's revenues and charged to PG&E's ratepayers.¹ D.88-12-083 established the qualifications and procedures for appointment of members to the DCISC and defined the scope of the Committee's operations and responsibilities.²

The DCISC consists of three members, one each appointed by the California Governor, the California Attorney General (AG), and the Chair of the California Energy Commission, serving staggered three-year terms.

D.07-01-028 approved changes to the DCISC nomination process.

On October 24, 2006, the DCISC submitted Application (A.) 06-10-024 to propose a restated charter. The CPUC adopted the restated charter in D.07-01-028 on January 25, 2007.

Section 1.B of the restated charter concerns appointments of DCISC members. It states that candidates for DCISC membership shall be selected from those applicants responding to an open request for applications. The incumbent member whose term is about to expire shall be deemed an additional candidate if he or she consents. The CPUC shall provide for public comment on the applicants' qualifications and potential conflicts of interest. The President of the CPUC shall review the applicants' qualifications, experience, and background, including any conflict of interest, together with any public comments, and shall propose as candidates to the appointing authority only persons with knowledge,

¹ D.88-12-083, Appendix C, Paragraph 16.

² D.88-12-083, Appendix C, Attachment A.

background, and experience in the field of nuclear power plants and nuclear safety issues. The Energy Division shall prepare and circulate for public comment, and place on the CPUC's public agenda, a resolution ratifying the President's selection of candidates and an incumbent member.

An open request for applications to fill the July 1, 2014 vacancy on the DCISC was posted on the CPUC's website. Dr. Per F. Peterson, the incumbent member of the DCISC whose term is expiring on June 30, 2014, consented to reappointment for another term. Mr. Paul M. Blanch, Dr. Charles A. Casto, and Dr. Michael D. Quinn, professional nuclear energy consultants also submitted applications.

In accordance with the nomination process approved in D.07-01-028, an announcement was posted on the CPUC's website on January 23, 2014 seeking applications for the July 1, 2014 vacancy on the DCISC.³ The Governor of California will appoint a candidate to fill this vacancy.

The announcement requested that applications be submitted to the Energy Division by February 26, 2014. Applications were received from Mr. Paul M. Blanch, Dr. Charles A. Casto, and Dr. Michael D. Quinn. In addition, Dr. Per F. Peterson, the incumbent member of the DCISC whose term expires in July 2014 consented to be considered as an additional candidate to fill the July 1, 2014 vacancy by submitting an application for consideration for reappointment.

Dr. Peterson is a professor in the Department of Nuclear Engineering at the University of California, Berkeley. Dr. Peterson was originally appointed to the DCISC in 2004 by the California AG Bill Lockyer for a three-year term ending in 2007. In 2008 Dr. Peterson was appointed to a second three-year term by California Governor Arnold Schwarzenegger, and reappointed in 2011 to his

³ A link to the announcement posted on the CPUC's website was sent to the service list in A.12-12-012, A.10-01-014, and A.10-01-022 to assure that parties interested in issues relating to DCPD were aware of the announcement. A.12-12-012 addresses PG&E's 2012 Nuclear Decommissioning Cost Triennial Proceeding. A.10-01-014 addresses PG&E's request for funding of seismic studies at Diablo Canyon. A.10-01-022 addresses PG&E's request for funding its DCPD relicensing application at the Nuclear Regulatory Commission.

current three-year term which is set to expire in July 2014 by Governor Edmund G. Brown Jr.

In his application Mr. Blanch summarized his technical experience as a consultant, expert witness, and utility nuclear plant supervisor; listed his major accomplishments in the field of nuclear safety; and provided copies of representative presentations given to state and federal government entities.

Mr. Blanch was previously a candidate for the Governor of California-appointed DCISC vacancy beginning on July 1, 2008, and he is a candidate for the vacancy for the term beginning July 2013 which the California AG has yet to fill.⁴

Dr. Casto's application describes his experience as a nuclear safety professional including executive, regulatory, technical and operational areas of responsibility within the U.S. Nuclear Regulatory Commission (NRC).

In his application Dr. Quinn describes his experience working in the nuclear power industry, and consulting for clients in the industry and the U.S. government on nuclear operations and safety.

Comments were received in support of Dr. Peterson's reappointment and Mr. Blanch's, Dr. Casto's, and Dr. Quinn's first-time appointment.

On March 17, 2014, an announcement was posted on the CPUC's website inviting comments on the candidacies of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn.⁵ Summaries of their qualifications were included with the announcement. The announcement requested that comments be submitted to the CPUC's Energy Division by April 9, 2014.

Comments in support of Dr. Peterson's reappointment were submitted by Dr. Robert Budnitz, a member the DCISC. Dr. Budnitz stated that Dr. Peterson has outstanding qualifications with an international reputation in nuclear safety

⁴ See Resolution E-4141, dated January 10, 2008, and Resolution E-4588 dated June 27, 2013. Dr. Robert Budnitz, the DCISC member for the term from July 1, 2010 through June 30, 2013 is also a candidate for reappointment by the California AG for the term beginning July 2013 pursuant to Resolution E-4588. Dr. Budnitz continues to serve on the DCISC pending action by the AG on that appointment.

⁵ A link to the announcement was also sent to the service lists in A.12-12-012, A.10-01-014, and A.10-01-022. See footnote 3 above.

engineering. Dr. Budnitz emphasized the quality of Dr. Peterson's service on the DCISC and noted he has been very effective in interacting with members of the public who attend DCISC meetings and take part in tours of the DCPD sponsored by the DCISC.

When Mr. Blanch applied to be a candidate for appointment to the DCISC by the California AG in 2013, the Energy Division received many comments in support of his appointment. Those comments confirmed Mr. Blanch's experience, knowledge, and reputation in the field of nuclear safety. Comments were submitted in 2013 by US Congressman Ed Markey's office, the Executive Director of the Alliance for Nuclear Responsibility, the Director of the Union of Concerned Scientists' Nuclear Safety Project, representatives from other nuclear safety non-profits including the New England Coalition, the C-10 Foundation, Pilgrim Watch, and San Luis Obispo-based Mothers for Peace, current and former NRC inspectors and risk managers, independent nuclear safety consultants, and nuclear plant operators. The most frequently repeated statements in the 2013 comments highlighted Mr. Blanch's commitment to public and employee safety; his technical, hands-on knowledge of and experience with nuclear plant operations and NRC regulations; his record of integrity; his commitment and disciplined approach to resolving safety issues; and the fresh, objective perspective Mr. Blanch would provide to the oversight of DCPD. Several of those who commented in support of Mr. Blanch's appointment in 2013 contacted Energy Division again this year to reaffirm their support for Mr. Blanch's appointment to the 2014 vacancy on the DCISC.

Many comments were received in support of Dr. Casto's appointment to the DCISC from his professional colleagues. Those commenting noted Dr. Casto's expertise on nuclear operations having worked many years at the NRC, and his management and teamwork skills. The Chairman of the Rebuild Japan Initiative Foundation described Dr. Casto's "herculean efforts" and his calm and professional management in the midst of the Fukushima nuclear crisis when he went to Japan as a representative of the U.S. government's response team.

Many comments were also received in support of Dr. Quinn's appointment to the DCISC from his professional colleagues. These comments described Dr. Quinn's technical skills in the field of nuclear operations and safety, his experience with the nuclear industry, his communications and leadership skills, and integrity. Comments on Dr. Quinn included a description of his leadership of a radiation protection recovery effort at the Bruce Nuclear Power Plant in Ontario, Canada where an event had exposed plant workers to airborne radiation. According to these comments, Dr. Quinn was an excellent team leader committed to improving radiation safety standards at the Bruce plant, and his knowledge of the dynamics of a nuclear power station's operations was a key factor in the success of the project.

The President of the CPUC nominates Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn to be considered by the Governor of California for the vacancy on the DCISC beginning July 1, 2014.

The CPUC's President, Michael Peevey, has reviewed the qualifications, experience, and background of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn. President Peevey has chosen to provide the names of these individuals to the Governor as candidates for the three-year DCISC position beginning July 1, 2014.

The purpose of this Resolution is to evaluate and ratify President Peevey's selection in accordance with Section I.B of the restated charter adopted in D.07-01-028.

NOTICE

Notice of this Resolution was made by publication in the CPUC's Daily Calendar. A copy of the Draft Resolution was sent to Dr. Peterson, Mr. Blanch, Dr. Casto, Dr. Quinn, and to those submitting comments on behalf of them. A copy of the Draft Resolution was also sent to the California Governor's office and to the service lists in PG&E's A.12-12-012, A.10-01-014, and A.10-01-022.

DISCUSSION

Summaries of the qualifications of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn are included in Appendix A of this Resolution.

The restated charter adopted in D.07-01-028 requires that candidates for appointment to the DCISC be persons with knowledge, background and

experience in the field of nuclear power facilities and nuclear safety issues who demonstrate they have no conflict of interest.⁶

Dr. Peterson is qualified to continue to serve on the DCISC.

Dr. Peterson is an incumbent member of the DCISC, having been appointed for a first term in 2004 and reappointed for second and third terms in 2008 and 2011.

Dr. Peterson is a professor in the Department of Nuclear Engineering at U.C. Berkeley, and a Mechanical Engineering (M.E.) faculty member in the Accelerator and Fusion Research Division at Lawrence Berkeley National Laboratory. Dr. Peterson has served on advisory panels for the federal government, national laboratories and national academies on topics related to nuclear technologies. He chairs the Radiation Safety Committee for U.C. Berkeley which is regulated by the California Department of Public Health. Dr. Peterson has PhD and Master of Science degrees in M.E. from U.C. Berkeley, and a Bachelor of Science (B.S.) degree in M.E. from the University of Nevada, Reno. He is a registered Mechanical Engineer in the State of California.

Dr. Peterson has no conflicts of interest that would preclude his continuing to serve on the DCISC as set forth in the information provided in his application. His qualifications show that he has knowledge, background, and experience in the field of nuclear power plants and nuclear safety issues. The comments received from Dr. Budnitz support Dr. Peterson's reappointment to the DCISC.

Mr. Blanch is qualified to serve on the DCISC.

Mr. Blanch is a professional nuclear energy consultant. He has served as an expert witness and conducted research in a number of relicensing cases for nuclear plants in the Northeast; in *Finestone vs. Florida Power and Light*; and in

⁶ Conflicts of interest are set forth in Section I.C of the restated charter. They establish limits on income and gifts from PG&E or an affiliated company, and investments in PG&E or an affiliate for DCISC members. They also prohibit members of the Committee from attempting to use their position to influence action of the Committee in which they have a financial interest. DCISC members are required to file a Statement of Economic Interest in the same manner as designated CPUC employees. No person shall serve on the DCISC who has a prior history of supporting or opposing PG&E as a witness or intervenor in nuclear licensing or CPUC proceedings associated with Diablo Canyon.

proceedings related to the 1979 Three-Mile Island accident. Mr. Blanch also provided consultation for a number of nuclear plant operators on evaluating and implementing safety programs, especially in the form of Safety Conscious Work Environment Programs (SCWEP) and Employee Concerns Programs. Mr. Blanch has consulted for the NRC, the Department of Labor, and other clients on modifications to Federal Regulations governing the protection of whistleblowers who identify safety issues at nuclear facilities. In addition 1993 Mr. Blanch was the Supervisor of Electrical Engineering at Northeast Utilities (NU), where he was responsible for plant reliability programs, compliance with NRC regulations, and supervising safety and compliance during the design and construction of Units 2 and 3 at Millstone Nuclear Power Plant. During his tenure with NU, Mr. Blanch directed the development of the first real-time instrumentation monitoring system for practical use in commercial nuclear plants to assess the overall safety status of the plant and to provide information to remote facilities during emergency events. This effort resulted in the identification of many instrumentation problems not previously recognized or considered “undetectable failures,” and prompted a number of industry-wide monitoring and design changes. Mr. Blanch has a B.S. degree in Electrical Engineering from the University of Hartford, and he attended the US Navy’s Electronics Technician School, Nuclear Power School, and Submarine School. Mr. Blanch has no conflicts of interest that would preclude his service on the DCISC. His qualifications show that he has knowledge, background, and experience in the field of nuclear power plants and nuclear safety issues. The comments received from the public support Mr. Blanch’s appointment to the DCISC.

Dr Casto is qualified to serve on the DCISC.

Dr. Casto is the President and Independent Safety Advisor of Casto Consulting Group, LLC. From 1985 until 2013 he worked at the NRC having held positions including Regional Administrator for Region III, Deputy Regional Administrator for Region IV, and Deputy Regional Administrator for Construction, Region II. Dr. Casto implemented the NRC’s inspection, enforcement allegations, and performance assessment programs for 23 nuclear power plants and approximately 1500 nuclear materials licensees. In 2011 he was selected by the Chairman of the NRC to lead a team of U.S. government representatives to help Japan respond to and recover from the Fukushima nuclear accident. He has also

participated in the operations of the International Atomic Energy Agency in Slovenia and Hungary. Dr. Casto has a Doctor of Business Administration degree from Kennesaw State University, a Masters of Public Administration degree for the University of Georgia, and a B.S. degree in Nuclear Technology from the State University of New York, Albany.

Dr. Casto has no conflicts of interest that would preclude his serving on the DCISC. His qualifications show that he has knowledge, background, and experience in the field of nuclear power plants and nuclear safety issues. The comments received from the public support Dr. Casto's appointment to the DCISC.

Dr. Quinn is qualified to serve on the DCISC.

Dr. Quinn has been a consultant to the nuclear industry for approximately 15 years. This includes developing and delivering root cause evaluation training to NRC staff, assessing significant issues during refueling operations at nuclear power plants, and leading root cause assessments at nuclear facilities. Dr. Quinn has also managed a team that developed and implemented corrective actions to address performance resulting in radiation contamination of 400 workers at the Bruce Nuclear Generating Station in Ontario, Canada. He has led teams in developing, implementing, and evaluating programs to establish a safety culture at nuclear power plants. Dr. Quinn was Manager of Nuclear Planning and Operational Standards for Northeast Nuclear Energy Company, and has held positions as Radio-Chemist, Manager of Chemistry and Radiochemistry, in addition to other positions at the Connecticut Yankee Haddam Neck Nuclear station. Dr. Quinn has a Doctorate in Organizational Management Systems from the University of New Haven, and a B.S. degree in Chemistry from Charter Oak College. He previously held a Senior Reactor Operator License.

Dr. Quinn has no conflicts of interest that would preclude his serving on the DCISC. His qualifications show that he has knowledge, background, and experience in the field of nuclear power plants and nuclear safety issues. The comments received from the public support Dr. Quinn's appointment to the DCISC.

President Peevey's selection of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn as candidates for the July 1, 2014 vacancy on the DCISC is ratified.

President Peevey's selection of Dr. Peterson as a candidate for reappointment, and Mr. Blanch, Dr. Casto, and Dr. Quinn as candidates for first-time appointment to the DCISC for a three-year term beginning July 1, 2014 is ratified. The President's selection shall be provided to the Governor of California.

COMMENTS

Public Utilities Code section 311 (g)(1) generally requires resolutions to be served on all parties and subject to at least 30 days public review and comment prior to a vote of the CPUC. Accordingly, the Draft Resolution was served on parties and issued for public review and comment no later than 30 days prior to a vote of the CPUC.

No comments on the Draft Resolution were submitted.

FINDINGS AND CONCLUSIONS

1. D.88-12-083 created the Diablo Canyon Independent Safety Committee (DCISC).
2. The DCISC is an independent, three-member committee responsible for monitoring the safety of PG&E's operation of the Diablo Canyon Power Plant.
3. D.07-01-028 adopted a restated charter for the DCISC including revised procedures for appointments of DCISC members.
4. On January 23, 2014, in accordance with D.07-01-028, an announcement was posted on the CPUC's website seeking applications for the July 1, 2014 vacancy on the DCISC.
5. The Governor of California is the appointing authority for the July 1, 2014 vacancy on the DCISC.
6. Dr. Per Peterson, the incumbent member of the DCISC whose term expires on June 30, 2014, responded to the CPUC's January 23, 2014 announcement and consents to being a candidate for reappointment to the DCISC.
7. Mr. Paul M. Blanch, Dr. Charles Casto, and Dr. Michael Quinn, professional nuclear energy consultants, responded to the CPUC's January 23, 2014

announcement, and submitted applications to be considered as a candidate for appointment to the DCISC.

8. The CPUC invited comments on Dr. Peterson's, Mr. Blanch's, Dr. Casto's, and Dr. Quinn's qualifications in an announcement posted on the CPUC's website on March 17, 2014.
9. Comments in support of Dr. Peterson's reappointment to the DCISC, and Mr. Blanch's, Dr. Casto's, and Dr. Quinn's appointment to the DCISC were received in response to the CPUC's March 17, 2014 announcement inviting comments.
10. The CPUC's President, Michael Peevey, has reviewed the qualifications, experience, and background of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn.
11. Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn have knowledge, background, and experience in the field of nuclear power plants and nuclear safety issues, and are qualified candidates for appointment to the DCISC.
12. President Peevey has chosen to provide the names of Dr. Peterson as a candidate for reappointment, and Mr. Blanch, Dr. Casto, and Dr. Quinn as candidates for appointment to the DCISC for a three-year term beginning July 1, 2014.
13. President Peevey's selection of Dr. Peterson, Mr. Blanch, Dr. Casto, and Dr. Quinn as candidates for appointment to the DCISC for a three-year term beginning July 1, 2014 should be ratified and provided to the Governor.

THEREFORE IT IS ORDERED THAT:

President Michael Peevey's selection of Dr. Per F. Peterson, Mr. Paul M. Blanch, Dr. Charles A. Casto, and Dr. Michael D. Quinn as qualified candidates for consideration by the Governor of California for appointment to the Diablo Canyon Independent Safety Committee for a three-year term beginning July 1, 2014 is hereby ratified.

This Resolution is effective today.

I certify that the foregoing resolution was duly introduced, passed and adopted at a conference of the Public Utilities Commission of the State of California held on June 12, 2014; the following Commissioners voting favorably thereon:

PAUL CLANON
Executive Director

APPENDIX A

Qualifications of Dr. Per F. Peterson

Dr. Peterson is a member of the Diablo Canyon Independent Safety Committee (Committee). He was appointed to the Committee by the California Attorney General to an initial three year term from 2004 to 2007, and was reappointed for second and third terms, from 2008 to 2011, and from 2011 to 2014, by the Governor of California.

Dr. Peterson is a professor in the Department of Nuclear Engineering at the University of California at Berkeley where he has taught courses related to nuclear reactor safety and design. His research and publications have covered topics in nuclear fusion energy, fission reactor design and safety analysis, nuclear waste management and areas of heat transfer and fluid mechanics that relate to these applications.

Dr. Peterson is also a Mechanical Engineering faculty member in the Accelerator and Fusion Research Division at Lawrence Berkeley National Laboratory. He has served as the Chair of the Nuclear Engineering Department (2000 to 2005, and 2009 to 2012), and Chair of the Energy and Resource Group (1998 to 2000) at U.C. Berkeley. Prior to beginning graduate studies Dr. Peterson worked as an engineer for Bechtel National Inc. on the design of systems for processing high-level nuclear waste.

Dr. Peterson has served on advisory panels for the federal government, national laboratories, and national academies on topics related to nuclear technologies, and on expert panels at academic conferences and workshops. This includes being a member of the Blue Ribbon Commission on America's Nuclear Future from 2010 to 2012 which provided recommendations to the Obama Administration, Congress, and the U.S. Department of Energy on managing U.S. used fuel and high level wastes. He currently chairs the Radiation Safety Committee for U.C. Berkeley which is regulated by the California Department of Public Health and is responsible for reviewing all authorizations for radioactive materials and radiation producing machines used in research on the Berkeley

campus. During the 2011 Fukushima accident Dr. Peterson served as a senior scientific advisor to the U.S. Secretary of Energy.

Dr. Peterson has PhD and Master of Science degrees in Mechanical Engineering from U.C. Berkeley, and a Bachelor of Science degree in Mechanical Engineering from the University of Nevada, Reno. He is a registered Mechanical Engineer in the State of California.

Qualifications of Mr. Paul M. Blanch

Mr. Blanch is a professional energy consultant. Since 2004 he has served as an expert witness in nuclear relicensing cases for the Indian Point power plant in New York on behalf of the State of New York, the Seabrook power plant in New Hampshire for various public interest groups, and the Vermont Yankee power plant for the New England Coalition. From 2003 to 2006 he was an expert witness for plaintiffs in *Finestone vs. Florida Power and Light* and conducted research on the quality and quantity of unmonitored releases from the St. Lucie nuclear plant.

From 1997 to 2002 Mr. Blanch worked as a consultant to nuclear plant operators to evaluate and implement safety programs. In 2001 and 2002 he reported to the Chief Nuclear Officer at Indian Point Unit 2 and assisted in evaluating the plant's Employee Concerns Program (ECP), assessing its Safety Conscious Work Environment Program (SCWEP), and investigating safety issues. In 2000 and 2001 he reported to the President of the Maine Yankee Atomic Power Company where he re-established a SCWEP, evaluated and recommended improvements to the ECP, conducted independent investigations of allegations received at the plant and referred by the Nuclear Regulatory Commission (NRC), and facilitated and resolved differences between employees and management.

From 1997 to 2001 Mr. Blanch reported to the President of Northeast Nuclear Energy Company and assisted in the recovery of the three Millstone Units in Connecticut that had been shut down due to safety problems. He established a SCWEP and facilitated and resolved differences between employees and management. He also assisted with regulatory compliance and corporate communication efforts by providing information to the NRC and the public

about the plant recovery and the SCWEP. In addition, Mr. Blanch made presentations to public interest groups, State of Connecticut oversight organizations and the NRC on the work environment at Millstone and the status of corrective actions. He also conducted presentations to the ECP Forum on how management should address whistleblower issues, and to the NRC on how to resolve high profile whistleblower situations.

From 1995 to 1998 Mr. Blanch was an expert witness for plaintiffs in proceedings related to the 1979 Three Mile Island accident. He conducted research to determine the quality and quantity of releases from the plant as part of this work.

From 1993 to 1997 Mr. Blanch was a consultant to the NRC and other clients. In that capacity he worked with the NRC on modifications to Federal Regulations for the protection of individuals who identify safety issues at nuclear facilities. He also advised clients on NRC and the U.S. Department of Labor regulations governing the protection of whistleblowers.

From 1972 to 1993 Mr. Blanch was the Supervisor of Electrical Engineering responsible for programs on plant reliability and compliance with NRC regulations. He supervised safety and compliance during the design and construction of the Millstone Units 2 and 3.

Mr. Blanch was one of the three qualified candidates selected by the California Public Utilities Commission for consideration by the California Governor for appointment to the Diablo Canyon Independent Safety Committee (Committee) for the term beginning July 1, 2008 (see CPUC Resolution E-4141 dated January 10, 2008). He was one of two qualified candidates selected by the CPUC for consideration by the California Attorney General for appointment to the Committee for the term beginning July 1, 2013 (see CPUC Resolution E-4588 dated June 27, 2013).

Mr. Blanch has a Bachelor of Science degree in Electrical Engineering from the University of Hartford. He also attended the U.S. Navy Submarine School, Nuclear Power School, and Electronics Technician School.

Qualifications of Dr. Charles A. Casto

Dr. Casto is currently President and Independent Safety Advisor, of Casto Consulting Group LLC. From 1985 until 2013 Dr. Casto worked at the United States Nuclear Regulatory Commission (NRC) where he held positions as Regional Administrator for Region III, Deputy Regional Administrator for Region IV, and Deputy Regional Administrator for Construction, Region II. He also held the positions of Division Director, Branch Chief, and Operator Licensing Examiner and Section Chief while at the NRC.

As the NRC Regional Administrator, Dr. Casto was responsible for senior executives, managers, and staff in Region III. He implemented the NRC's inspection, enforcement, allegations, and performance assessment programs for 23 nuclear power plants and approximately 1500 nuclear materials licensees. Dr. Casto led the Construction Inspection Program in Region II.

In March 2011, Dr. Casto was selected by the Chairman of the NRC to lead a team of U.S. government representatives to help Japan respond to and recover from the nuclear accident at Fukushima. He participated in an international Organization for Economic Development and Cooperation mission to help establish criteria to restart shutdown nuclear plants in Japan. He also was a member of the International Atomic Energy Agency (IAEA) review team that assessed the performance of the Slovenian Nuclear Regulatory Agency, and participated in an IAEA mission to Hungary in 2003 where 32 spent fuel assemblies were accidentally destroyed at the PAKS plant.

In 1984 and 1985 Dr. Casto worked for Resource Technical Services as an NRC certified Senior Reactor Operator Instructor. From 1978 to 1985 he worked for the Tennessee Valley Authority as an NRC licensed Reactor Operator and Instructor at the Browns Ferry plant, and as a Construction Manager at Sequoyah Unit 2. From 1973 to 1978 Mr. Casto was in the U.S. Air Force and worked in the nuclear weapons program and on explosive ordinance disposal.

Dr. Casto has a Doctor of Business Administration degree from Kennesaw State University, a Masters of Public Administration degree from the University of Georgia, and a Bachelor of Science degree in Nuclear Technology from the State

University of New York, Albany.

Qualifications of Dr. Michael D. Quinn

Dr. Quinn has been a consultant to the nuclear industry in the United States and Canada and to the U.S. government since 1999. This work includes developing and delivering root cause evaluation training to staff of the U.S. Nuclear Regulatory Commission. He has also assessed the corrective action program and is teaching causal analysis for Chicago Bridge and Iron which is fabricating building modules for nuclear plants in South Carolina (VC Summer Plant) and Georgia (Plant Vogtle). Dr. Quinn has also provided consulting services for several other clients on nuclear safety as described below.

From 2011 to 2013 Dr. Quinn led a team in assessing significant issues during nuclear refueling operations at 5 nuclear power units (Ginna, Oyster Creek, Millstone Station, Point Beach, and Arkansas Nuclear One) for Westinghouse/PaR Nuclear, Inc. He also led a collective significance team in evaluating the loss of offsite power at the Wolf Creek Nuclear Station, and led the root cause team in the design phase for the U.S. Advanced Pressurized Water Reactor project at the North Anna 3 plant for Mitsubishi Heavy Industries.

From 2009 to 2011 Dr. Quinn managed a team charged with developing and implementing corrective actions to address performance that resulted in radiation contamination of 400 workers at the Bruce Nuclear Generating Station in Ontario Canada. He also provided training and consulting to Atomic Energy Canada Limited on corrective action, root cause, and nuclear safety in connection with a reactor rebuild project. Additionally, Dr. Quinn assessed the root cause process within the corrective action program evaluation for the relicensing of the Vermont Yankee Nuclear Power Station.

Prior to working as a consultant Dr. Quinn held various positions at nuclear power facilities. From 1996 to 1999 he was Project Manager assigned to the Millstone Nuclear Power Station recovery team where he led groups in developing, implementing, and evaluating programs to establish a nuclear safety culture. In 1994 and 1995 Dr. Quinn was Manager of Nuclear Planning and Operational Standards for Northeast Nuclear Energy Company where he

planned and developed initiatives for more effective nuclear operational performance for five nuclear units at three sites. From 1975 to 1993 he worked at the Connecticut Yankee Haddam Neck Nuclear station, and held positions as Radio-Chemist, Manager of Chemistry and Radiochemistry, Manager of Offsite Radiation Dose Consequence, Refueling and Maintenance Outage Manager, Director of Station Emergency Operations, and Director of Station Services.

Dr. Quinn has a Doctorate in Organizational Management Systems, and a Master of Business Administration degree from the University of New Haven, and a Bachelor of Science degree in Chemistry from Charter Oak College. He previously held a Senior Reactor Operator License.

(END OF APPENDIX A)