

Construction Authorization Request Review Team Education and Experience

Review Team Member	Education and Experience	Areas of Review				
		LAW	HLW	PT	BOF	Anal. Lab
George Abatt	B.S. and M.S., Engineering Mechanics, Michigan State University; Ph.D., Theoretical and Applied Mechanics, University of Illinois at Urbana-Champaign. Over 13 years experience in structural analysis seismic analysis, soil-structure interaction analysis, dynamics, and finite element analysis of structures.		X			
Jim Adams	B.S., Nuclear Engineering, Texas A&M University. Over 30 years experience related to nuclear operations and oversight of nuclear operations. Qualified as an ANSI Level III Test Engineer and a Senior Reactor Operator. Expertise in conduct of operations.	X	X			
Mike Black	B.S., Geological Engineering, University of Idaho. Over 28 years experience in ground support and excavation, including both mining and civil applications. Experience with drill and blast, ripping, scrapers, power shovels, and front-end loaders on jobs ranging from striping operations for open pit mining to basement excavations for residential homes.					
Jay Boudreau	Ph. D., Engineering, University of California at Los Angeles. Over 30 years experience in nuclear reactor design, safety, fuel cycle technology and economics, waste management, and mission and systems analysis for NASA and the U.S. Department of Defense (DOD) nuclear power applications (terrestrial and space). Instrumental in helping the OSR establish and implement the WTP regulatory program.	X	X	X		
Pat Carier	B.S., Mechanical Engineering, Penn State University; Master's in Management, University of Phoenix. OSR Verification and Confirmation Official. Senior reactor operator certification; QA training and facilitating. More than 16 years experience in nuclear power licensing and system integration, regulatory affairs, and QA.					
Bruce Carpenter	B.S., Architectural Engineering, University of Colorado; M.S., Civil Engineering, Structures, Stanford University. Registered professional engineer with over 15 years experience on commercial and DOE projects. Expertise in structural engineering and seismic design for structural steel and reinforced concrete.			X		
Ko Chen	B.S., Chemical Engineering, National Taiwan University; Ph.D., Mechanical Engineering, University of California Berkeley. Licensed mechanical engineer. More than 20 years experience in nuclear safety, fluid mechanics, mass transfer, and heat transfer.	X	X	X		
Tony Chung	B.S.M.E., Taiwan Chung-Hsing University, M.S.M.E., Washington State University. Licensed structural engineer. Over 25 years engineering experience, including over 17 years in structural and thermal analysis.	X	X			

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Dick Cooper	B.S. Marine Engineering, U.S. Naval Academy, Masters Program (non-degreed), Radiation Health Physics, Georgetown University. QA lead auditor certification through Consolidated Edison. Over 30 years experience in nuclear power, including constructing, designing, operating, regulating, and providing safety oversight. Over 13 years with the NRC.	X	X			
James Cunnane	Ph.D., Nuclear Radiochemistry, Purdue University. Over 20 years experience in radioactive waste processing, evaluation of waste forms, vitrification of radioactive wastes, and radiochemistry.		X			
Dean Davis	B.S., University of Montana. Certified professional engineer in fire protection. Over 45 years experience in fire protection, including 14 years with DOE Richland Operations, and 15 years as Chief, Fire Protection, U.S. Army, Europe.	X	X	X		
Bob Defayette	B.A., Chemistry, St. Ambrose College; M.S., Physical Chemistry, Iowa State University. Over 35 years experience in the nuclear field with the NRC, DOE, and nuclear utilities. Extensive experience in assessing operational performance, QA programs, employee safety concerns, corrective action programs, and emergency preparedness.	X	X			
Richard Evans	B.A., Mathematics, Pomona College; B.S., Air Conditioning and Refrigeration, California Polytechnic Institute. Licensed professional engineer. Over 40 years experience in HVAC design and engineering, control systems, and mechanical systems.			X		
Vic Ferrarini	B.S.M.E., University of Massachusetts at Dartmouth; M.S.M.E., University of Rhode Island. Registered professional engineer. Over 30 years experience in designing, analyzing, inspecting and auditing piping, pipe supports, pressure vessels, valves, pumps, and other mechanical components, including heat transfer and fatigue analysis of ASME (American Society of Mechanical Engineers) Class I components.	X	X			
Rick Garrison	B.S., Electrical Engineering, Washington State University. More than 17 years experience in systems engineering, design, installation, startup, operations, and maintenance of instrumentation, control, power, and data management systems at DOD and DOE facilities.		X			
Yvonne Gibbons	B.S., Civil Engineering, Arizona State University; M.S., Civil Engineering, Old Dominion University. More than 10 years experience in foundation design, geotechnical investigations and analysis, environmental investigations and analysis, slope stability analysis, and seismic analysis.					
Rob Gilbert	B.S., Metallurgical Engineering, University of Washington. Five years nuclear Navy and 10 years experience in waste vitrification technology and design, Hanford tank waste storage and treatment system design, and pressure vessel steel material performance.	X	X	X		

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Robert Griffith	B.S., Mechanical Engineering, University of Arizona; M.S., Mechanical Engineering, Stanford University. Registered professional engineer. More than 26 years experience in systems engineering, licensing support, safety engineering, and environmental qualification at DOE, commercial power plants, and the Savannah River Site.		X			
Ann Hansen	B.S., Mathematics and Physics, Florida Southern College; M.S., Physics, Virginia Polytechnic Institute; M.S., Nuclear Engineering, Carnegie Mellon University. Over 25 years experience in hazard and accident analyses, safety analysis report development, and technical safety requirement development and analysis.	X	X	X		
Al Hawkins	B.S., Chemical Engineering, University of Washington; MBA, Operations Research, Washington State University. OSR Openness Coordinator. More than 27 years experience in operations, oversight, safety, and QA. Former manager of Compliance Assurance and Director of Environment, Safety, Health and Quality Assurance at NRC.	X	X			
Quazi Hossain	B.S., Civil Engineering, Bangladesh University of Engineering & Technology; M.S., Structural Engineering, Texas A&M University; Ph.D., Structural Engineering, University of California, Davis. Licensed civil engineer. Fellow, American Society of Civil Engineers. Over 35 years experience in structural and seismic engineering, safety system classification, and safety design and analysis.	X	X	X		
Neal Hunemuller	B.S., Nuclear Engineering, Iowa State University. Certified NRC Operator Licensing Examiner; Licensed NRC senior operator; NRC-certified incident investigation team member. More than 20 years experience in commercial nuclear power and the NRC. Expertise in standards identification process, conformance/compliance reviews, and training and qualifications.	X				
Ninu Kaushal	B.A., B.S., and M.S. in Physics, Punjab University; MBA, Northern Illinois University; Ph.D., Nuclear Physics, Rensselaer Polytechnic Institute. More than 20 years experience in the commercial nuclear industry in nuclear physics, nuclear safety evaluations, nuclear criticality, electrical design, and instrument and controls; 10 years experience in nuclear research applying state-of-the-art instrumentation techniques.	X				
Bill Kennedy	B.S., Nuclear Engineering, Kansas State University; M.S., Nuclear Engineering, Kansas State University. Over 25 years experience in environmental and health physics. Nationally and internationally recognized expert in environmental radiological controls, environmental assessment, environmental regulations, radiation dosimetry, environmental pathway analysis, safety assessment and risk analysis, radiation shielding, health physics, and statistical analysis.	X	X			

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Dennis Kirsch	B.S. and M.S., Electrical Engineering, Montana State University. Registered Professional Engineer. More than 23 years with the NRC including position as Division Director of Reactor Safety and Projects; 5 years commercial experience. Expertise in mechanical and electrical construction inspection, power reactor operations, QA, and preoperational testing of mechanical and electrical systems.					
James Leivo	B.S., Electrical Engineering, Carnegie-Mellon University. Registered professional engineer. Over 30 years experience in the nuclear power industry and related energy systems, including instrumentation, control, and electrical and computer systems for nuclear power plants and DOE facilities. Has provided independent consulting services to NRC for operating, pre-operating, and advanced reactor plants.			X		
Ron Lerch	B.A., Chemistry, Pacific Lutheran University; Ph.D., Inorganic Chemistry, Oregon State University. More than 30 years experience in nuclear waste management, nuclear technology development, nuclear fuel reprocessing, environmental cleanup, and project management; 2 years as Deputy Manager of Hanford tank farms.	X	X	X		
Barclay Lew	B.A., Mathematics, and B.S., Nuclear Engineering, University of California, Santa Barbara; M.S., Engineering; Ph.D., Nuclear Engineering, UCLA. Over 28 years experience in nuclear safety analysis, heat transfer, mass transfer and fluid flow, computational fluid dynamics, and analysis of safety analysis reports.	X	X	X		
Ron Light	B.A., Mathematics, and M.B.A., University of South Dakota. Over 30 years of experience in management systems, business management, program controls, and financial management. Regulatory process administrator in OSR.	X				
Chung-King Liu	B.S., Zoology, Fu-Jen Catholic University (Taiwan); M.S., Chemistry, Kansas State College - Pittsburgh; Ph.D., Nuclear Radiochemistry, University of Arkansas. NQA-1 lead nuclear auditor. Over 23 years experience in nuclear waste management, radiochemistry laboratory management, and environmental cleanup. Expertise in the areas of chemical process safety, nuclear process safety, and health physics.	X	X	X		
Surya Maruvada	Master of Engineering, Electrical Power Engineering/Indian Institute of Science. Licensed professional engineer. Over 30 years experience in nuclear safety and hazard analyses, probabilistic risk assessment, responsibility assignment matrix analyses, and electrical power and control systems.	X	X	X		

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Omar Mazzoni	B.S., Electrical Engineering/Mechanical Engineering, National Litoral University (Argentina); M.S., Electrical Engineering, Polytechnic Institute of Brooklyn; D.Sc. Electrical Engineering, George Washington University. Certified professional engineer. Over 30 years experience in electrical engineering, high- and low-voltage power, instrumentation and control, and functional design reviews.					
Steve Merwin	B.S., Environmental Engineering, Northwestern University; M.S., Health Physics, Colorado State University. Certified health physicist and certified industrial hygienist. Over 15 years experience in health physics, risk assessment, and accident analysis.			X		
Ellen Messer-Wright	B.S., Electrical Engineering, University of New Mexico; M.S., Environmental Science, Washington State University. Certified health physicist. Over 10 years experience in occupational radiation protection, ALARA, and radiological compliance assessments.	X	X	X		
Milon Meyer	B.S., Mechanical Engineering, University of Iowa. Over 35 years experience in structural analysis, equipment qualification, and finite element analysis related to nuclear, gas turbine, rockets, and aerospace.	X	X	X		
Lew Miller	B.S., Physics, Massachusetts Institute of Technology; M.S., Nuclear Engineering Science, University of California, Berkeley. OSR Safety and Standards Review Official. Certified license examiner, senior resident inspector. More than 29 years experience with the nuclear Navy and the NRC. Expertise in nuclear safety oversight, safety analysis reviews assessments, and incident investigations.	X	X	X	X	
Matt Moeller	A.B., Mathematics, Cornell University; M.S., Environmental Health Physics, Harvard University. Certified health physicist. Over 20 years experience in health physics, radiation protection, industrial safety and hygiene, risk assessment, and emergency preparedness.	X	X	X		
Joe Panchison	B.S., Mechanical Engineering, Drexel University. Licensed professional engineer. Over 23 years experience in mechanical engineering design, thermal hydraulic analysis, fluid systems analysis, HVAC, power piping, and nuclear component codes and standards. Direct experience in plant modifications and configuration management.		X	X		
Keith Parkinson	B.S., Electrical Engineering, Purdue University. Certified reactor operator. Over 35 years experience in the nuclear field, including 24 years in the nuclear Navy and 10 years as an NRC inspector and NRC operator license examiner. Expertise in training, fire protection, operations, and electrical distribution systems.	X	X			
Walter Pasciak	B.S., Physics, New York University; M.S., Nuclear Engineering, The Catholic University of America; Ph.D., Environmental Engineering, John Hopkins University. Over 28 years experience in nuclear power involving environmental, radiological, and safety oversight; 27 years with the NRC.					

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Michael Plunkett	B.S.M.E., Mechanical Engineering, University of New Haven; M.S.M.E., Mechanical Engineering, University of Rhode Island. Licensed professional engineer. Over 29 years experience in designing, analyzing, inspecting, and auditing piping, pipe supports and other mechanical components in the power industry, fire protection, and NRC audits.	X	X			
Jeanie Polehn	B.S., Nuclear Engineering Technology, Oregon State University; M.S., Health Physics, Georgia Institute of Technology. Certified health physicist. Registered Environmental Manager. More than 20 years experience in radiation protection including occupational, environmental, and emergency response at commercial power plants and with DOE.	X	X	X		
Ross Potter	B.S., Nuclear Engineering, University of New Haven; M.S.M.E., Mechanical Engineering, University of Rhode Island. Licensed professional engineer. Over 29 years experience in designing, analyzing, inspecting, and auditing piping, pipe support, and other mechanical components in the power industry, fire protection, and NRC audits.	X	X	X		
Gerald Ritter	B.A., Chemistry, Pacific Lutheran University; B.S., Chemical Engineering, University of Washington; M.S., Chemical Engineering, University of California, Berkeley. Over 33 years experience in nuclear fuel fabrication and processing, nuclear waste management, and preparation and evaluation of safety analysis reports			X		
Grant Ryan	B.S., Physics, Frostburg State University; B.S., Nuclear Engineering, University of Maryland. Licensed professional engineer. Over 11 years experience in probabilistic risk analysis, radiological and toxicological consequence analysis, hazard analysis, and control selection methodologies.		X	X		
Jean Savy	Ph.D., Civil-Geophysics, Stanford University. Licensed civil engineer. Over 25 years experience in hazard analyses, risk analyses, and structural safety. Experience in seismic, tornado, and flood methodology development for probabilistic analyses.					
Ken Scown	B.S., Management Science, California State University, Hayward. Over 18 years nuclear fire protection auditing and consulting, including inspections for fire protection, emergency planning, and security. Worked 7 years fighting fires, servicing equipment, and training fire fighters; worked 6 years as a health and safety technician.	X	X			
Vern Severud	B.S., Civil Engineering, California State University-Chico; M.S., Civil Engineering, University of Arizona. Licensed professional engineer. Fellow of American Society of Mechanical Engineers. Over 40 years experience in seismic design and analysis, and elevated temperature design and analysis.	X	X			

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William Sherbin	B.S., Mechanical Engineering, Bucknell University; M.S., Mechanical Engineering, University of Maryland. Registered professional engineer. Over 30 years experience in heat exchange, fluid systems, ventilation systems, and seismic design requirements. Participant in over 40 nuclear power plant safety system functional inspections.		X			
Michael Shlyamberg	B.S.M.E., Polytechnic Institute, Lvov, USSR. Registered professional engineer. Over 20 years experience in design of nuclear safety support systems, thermal hydraulic calculations, safety evaluations, containment analysis, and preparation of safety analysis reports. Participant in over 45 NRC inspections and utility assessments.					
Bob Smoter	U.S. Navy Nuclear Power School. Over 20 years experience in commercial and DOE nuclear regulatory development, safety analysis reports, licensing, project management, and nuclear plant operations and maintenance.	X	X			
Allan Stalker	B.S., Chemistry, Idaho State University; M.S., Chemistry, Carnegie Institute of Technology; Ph.D., Chemistry, Carnegie-Mellon University. Over 40 years experience in the nuclear industry with expertise in nuclear chemistry, nuclear safety, spectroscopy, hazardous chemical analysis, and safety analyses.		X			
Robin Sullivan	B.S., Mechanical Engineering, University of Washington. Over 10 years experience in hazard analysis, risk assessment, safety licensing review, authorization basis development and maintenance, and regulatory compliance reviews.		X			
Mark Summers	B.S., Civil Engineering, Walla Walla College; M.S., Civil Engineering, Oklahoma State University. Over 21 years experience in structural engineering on various U.S. Army Corp of Engineer projects.	X	X			
John Swanson	B.A., Chemistry, Reed College. Over 50 years Hanford experience in nuclear process technology, fuel reprocessing, solvent extraction chemistry, ion exchange, radiochemistry, and nuclear waste processing.					
Cindy Taylor	B.A., Business Management, Eckerd College; M.B.A., Engineering Management and Technology, City University. ANSI/ASME NQA-1 lead auditor. Over 13 years experience in QA program development and project management. QA support to DOE, NRC, OCRWM, and DOD-regulated projects.	X	X			
Susan Thraen	B.S., Nuclear Engineering, Pennsylvania State University. Over 17 years experience, including 6 with the NRC in regulatory process, nuclear facility design, construction, and operations. Expertise in safety analysis, radiation protection, emergency preparedness, regulatory compliance, and conduct of operations.	X	X	X		

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Russ Treat	B.S., Chemical Engineering, Washington State University. Over 30 years experience in chemical and process engineering including nuclear waste management, processing of nuclear waste, and development of waste vitrification processes.			X		
James Troske	B.S., Electrical Engineering, Gonzaga University; M.S., Electrical Engineering, Montana State University. Licensed professional engineer. Over 30 years experience in electrical and control system engineering.		X			
Brian Vonderfecht	Ph. D., Nuclear Physics, Washington University. Over 11 years nuclear experience in the areas of nuclear criticality safety, accident analysis, probabilistic risk analysis, radiation shielding, and nuclear physics. Expertise in thermal-hydraulics, heat-transfer, diffusion, and chemical or thermal explosions.	X	X	X		
Frank Wenslawski	B.A., Physics, Rutgers University. Over 35 years of nuclear experience, including various management assignments in the U.S. Atomic Energy Commission, DOE, NRC, and the International Atomic Energy Agency. Expertise in radiation protection and emergency preparedness.					
Bob Winkel	B.S. and M.S., Civil Engineering, Brigham Young University; Ph.D., Structural Engineering, University of Colorado. Registered professional engineer. Over 31 years experience in structural analysis and evaluation of nuclear structures and equipment using American Society of Mechanical Engineers, American Institute for Steel Construction, and ACI engineering design codes.	X	X			
Joe Yedidia	B.S., Mechanical Engineering, Israel Institute of Technology; M.S., Nuclear Science, Israel Institute of Technology; MBA, University of Pittsburgh. Over 30 years experience in spent fuel systems, reactor utility requirements, liquid metal reactor development, and mechanical and fluid reactor systems.		X			
Jonathan Young	B.A., Mathematics, Lincoln University. Over 30 years experience in systems and safety engineering, safety analysis, probabilistic safety assessment, and system security activities in the aerospace and nuclear industries. Principal instructor and course developer for numerous probabilistic safety assessment courses, both in the United States and abroad.			X		
Greg Yuhas	B.A., Management, St Mary's of California. National Registry of Radiation Protection Technologists. Over 24 years experience in radiation safety, including 17 years with the NRC and 3 years with DOE. Expertise in occupational radiation safety, effluent and environmental monitoring, and decommissioning.	X	X			