Primary Instructors

Kevin G. DeWall

Kevin DeWall is an Advisory Engineer at the Idaho National Laboratory specializing in mechanical equipment qualification, operability, and survivability research. He has over 28 years experience in motor-operated valve (MOV) design basis and separate effects testing and analysis. This includes gate valve design basis operability, valve stem/stem nut load sensitive behavior, ac and dc motor testing, and gearbox efficiency research. He has performed testing and error analysis of commercial diagnostic test equipment and is a codeveloper of the INL’s motor-operated valve load simulator.

Mr. DeWall has over 20 years experience supporting international codes and standards development. He is a member of the ASME Standards Committee for the Code on Operation and Maintenance of Nuclear Power Plants (OM Code) and Qualification of Active Mechanical Equipment Used in Nuclear Power Plants (QME-1). Kevin currently serves as the Chairman of the ASME OM Subgroup on Motor Operated Valves.

Mr. DeWall has an MS degree in Nuclear Science & Engineering, from Idaho State University and is a Registered Professional Engineer in Idaho. He has published over 30 referred papers, 14 NRC NUREG/CR reports, and 3 international journal articles.

Mark R. Holbrook

Mr. Holbrook is an Advisory Engineer at the Idaho National Laboratory (INL) and has 38 years experience in nuclear energy in the areas of reactor operations, mechanical engineering, and commercial reactor plant licensing. In the area of motor-operated valves, Mark participated as a technical expert for over 110 NRC on-site MOV inspections as part of the NRC’s Generic Letter 89-10 MOV inspection program. Mr. Holbrook has provided MOV training to NRC regional and resident inspectors (under contract to ISU) for the last 8 years and has provided MOV instruction to regulatory personnel from the Korea Institute of Nuclear Safety (KINS) and the Canadian Nuclear Safety Commission (CNSC).

Mr. Holbrook’s current responsibilities at the INL include support for advanced reactor licensing activities at the INL, where he serves as a licensing engineer for the Next Generation Nuclear Plant (NGNP) project. He has co-authored several studies including an evaluation of special treatment requirements for low-risk safety-related components (NUREG/CR-6752) and a Congressional feasibility study for deploying small modular reactors in remote locations.

Mr. Holbrook obtained a Bachelor of Science degree from the College of Engineering and graduated with honors from the University of Idaho in 1989. He maintained qualifications as an experimental reactor plant operator and participated in several loss of coolant experiments at DOE’s Loss of Fluid Test (LOFT) reactor. Prior to working at LOFT, Mr. Holbrook served 8.5 years in the U.S. Navy as a reactor plant operator in the submarine force. Education for this activity included U.S. Navy Nuclear Power School training at Bainbridge MD, in 1974, and U.S. Navy, Nuclear Power Prototype Training at Knolls Atomic Power Laboratory (KAPL) in 1975.
Topics and activities:

   • Issues associated with MOVs in commercial nuclear power.
   • MOV Operability including issues from GL 89-10 –Safety-Related MOVs and GL 96-05 –Periodic Verification.

2. Valves and Actuators
   • Valve and Actuator Types
   • Most common Usage
   • Application Specific Issues
   • Impacts and actions arising from ASME OMN-1 and Mandatory Appendix III

3. Detailed analysis of the design basis and functional margin requirements for Motor Operated Valves.
   • Design Basis Calculations for Motor operated gate globe and butterfly valves using AC and DC motors.

4. Hands-on assembly and disassembly of MOV actuators, test stand operation of actuators and diagnostic analysis of collected data.

5. Detailed discussion of regulatory compliance and the requirements and practices for in-service testing of motor operated valves.

6. Lessons learned from Motor Operated Valve inspection and testing throughout the nuclear industry.

For additional information got to: workforcetraining.isu.edu/mov/ or call: (208) 282-3372

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