



William De Travers will continue to participate in the IWG at least through the initial effort to prepare the report to the President. I further anticipate that we will continue to follow the condition monitoring research being done in the other agencies in the expectation that it could be applied by our licensees in the future. The next meeting of the IWG will be in early July at FAA headquarters.

Attachment: As stated

cc:

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C. Paperiello

M. Mayfield

E. Hackett

J. Vora

S. Collins

W. Kane

B. Beecher/B. Hayden, OPA

William D. Travers

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United States Nuclear Regulatory Commission

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## NRL REGISTRATION AND RESEARCH

Office of the Nuclear Director

Research

U.S. Nuclear Regulatory Commission

## Cable Aging Has Been Recognized

NRC regulation (10 CFR 50.49) specifies design for  
creation (of 50 in Appendix A) and addresses qualification  
aging throughout service life of installed equipment,  
National Consensus Standards (IEEE) provide process  
for preaging and testing of cables to demonstrate  
qualification for service life

NRC regulation and guidance, and IEEE standards  
accepted worldwide for treatment of aging in electric  
cables used in nuclear power plants



## United States Nuclear Regulatory Commission

### NRC Has a Role for Electric Cables

Significant interaction with national (DOE and EPRI) and international researchers in this area. Research since early 1980s evaluating ability of aged cables to survive design basis accidents and nondestructive 'condition monitoring' techniques. Since 1993, NRC has invested approximately \$9.2M on cable aging and condition monitoring research.

## United States Nuclear Regulatory Commission

### Ageing Issues for Electric Cables

Research has shown current regulations and guidance provide reasonable assurance that aging in cables is being adequately managed. There are issues that have warranted further consideration such as appropriate limitations on the Arrhenius methodology for extrapolating accelerated qualification test conditions to service times and conditions. Service experience also has identified issues that warrant evaluation such as degradation of splices and degradation of cables in waterfilled conduits. Continuing research is evaluating aging effects for other applications, such as power cables inside containment and containment penetrations.