

DEC 21 1992

Roy G. Post, General Chairman  
 WM Symposia, Inc.  
 245 South Plumer, Suite #19  
 Tucson, AZ 85719

ATTN: Biography Information

Log # 293

Dear Mr. Post:

In response to your letter dated November 25, 1992, attached are the biographies of the authors of the paper, "Applications of Systems Engineering to the Licensing of a High-Level Waste Repository." The presenter of the paper will be myself, but I have included the biographical information for all of the authors. If you have any additional questions, please feel free to contact me at (301) 504-3391.

Sincerely,

*JS*  
 Joseph J. Holonich, Project Director  
 Repository Licensing and Quality  
 Assurance Project Directorate  
 Division of High-Level Waste Management  
 Office of Nuclear Material Safety and  
 Safeguards

DISTRIBUTION

CNWRA	NMSS R/F	HLPD R/F	LSS
LPDR	ACNW	PDR	CENTRAL FILE
BJYoungblood, HLWM	JLinehan, HLWM	<del>RBallard, HLGE</del>	<del>MFederline, HLHP</del>
JHolonich, HLPD	<u>On-Site Reps</u>		

OFC	HLPD						
NAME	JHolonich/d						
DATE	12/4/92						

C = COVER  
 g:\wm93.jjh

E = COVER & ENCLOSURE  
 OFFICIAL RECORD COPY

N = NO COPY

9212280137 921221  
 PDR WASTE  
 WM-1 PDR

*WM-1  
 NHIC 1/1  
 All-B*

## Biography

Joseph J. Holonich, Project Director  
Repository Licensing and Quality Assurance  
Project Directorate  
U.S. Nuclear Regulatory Commission

Mr. Holonich is the Project Director for the Repository Licensing and Quality Assurance Project Directorate at the Nuclear Regulatory Commission. His organization is responsible for the development and implementation of agency policy, project management of NRC activities, and liaison between NRC and outside organizations. Mr. Holonich received a B.S. from the Pennsylvania State University and an M.S. from the Catholic University of America. He began his career with the NRC as a reviewer of the thermal-hydraulic design of nuclear reactor cores in 1980. He has held a number of progressively responsible positions including Project Manager, Mechanical Engineer, Reactor Inspector, Senior Project Manager, and Section Leader. He has held his present position since November 1991.

Robert L. Johnson, Section Leader  
Repository Licensing and Quality Assurance  
Project Directorate  
U.S. Nuclear Regulatory Commission

Mr. Johnson is the Section Leader for the Systems Engineering and Special Projects Section within the Repository Licensing and Quality Assurance Project Directorate at the Nuclear Regulatory Commission. His section is responsible for developing policy for and project management of rulemakings and various guidance documents such as the license application format and content regulatory guide, license application review plan, and staff technical positions. Mr. Johnson has been involved with NRC's high-level waste repository program since 1979 as a geologist and project manager. Prior to joining NRC he worked for NUS Corporation as a geologist/hydrologist and the National Oceanic and Atmospheric Administration as a commissioned officer.

Patrick C. Mackin, Deputy Technical Director  
for Systems Engineering  
Center for Nuclear Waste Regulatory Analyses

Mr Mackin received a B.S. in Mathematics from the U.S. Naval Academy and an M.S. in Systems Engineering from the University of Southern California. From 1970 through 1990 he held a number of positions in the U.S. Navy's nuclear propulsion program, including an assignment as Chief Engineer Officer on a nuclear-powered aircraft carrier. He also commanded a destroyer and was a strategic planner on the staff of the Chairman, Joint Chiefs of Staff. Since 1990, he has been assigned variously as Principal Engineer, Element Manager for the Waste Systems Engineering and Integration Element, and Deputy Technical Director for Systems Engineering and Integration at the Center for Nuclear Waste Regulatory Analyses.