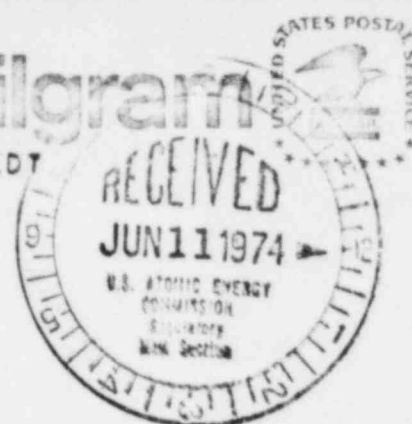


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JOHN F OLEARY, DIRECTOR
DIRECTORATE OF LICENSING REGULATION US ATOMIC ENERGY COMMISSION
WASHINGTON DC 20545

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REFERENCE QUAD CITIES NUCLEAR POWER STATION UNIT 2, DOCKET NUMBER 50-265 LICENSE DPR-30, APPENDIX A, SECTION 1.0.8.3 AT 225AM ON JUNE 10, 1974 WITH UNIT 2 OPERATING AT 200MW, FEEDWATER LOW FLOW REGULATING VOLVES AO-2-643 SUFFERED A GROSS FAILURE OF THE VOLVES BODY, CAUSING THE FEEDWATER LINE TO BECOME SEVERED. THE SEVERED LINE CAUSED THE WATER LEVEL IN THE REACTOR TO DECREASE. THE REACTOR SCRAMED FROM A LOW WATER LEVEL SIGNAL. EXAMINATION OF THE VOLVES SHOWED THAT THE FAILURE APPEARED TO BE CAUSED BY THE VOLVES MINIMUM WALL THICKNESS BEING LESS THAN THE DESIGN REQUIREMENTS. MINIMUM WALL THICKNESS SHOULD HAVE BEEN .562 INCHES. ACTUAL MEASUREMENTS RANGED FROM .315 INCHES TO .447 INCHES. FEEDWATER FLOW THROUGH THE SEVERED LINE WAS ISOLATED WITHIN 20 MINUTES. ESTIMATES ARE THAT APPROXIMATELY 50,000 GALLONS OF WATER ESCAPED FROM THE SEVERED LINE. HEAT FROM THE RELEASED WATER AND STEAM ACTUATED THE FIRE DELUGE SYSTEM WHICH RELEASED ADDITIONAL WATER TO THE PLANT. RADIATION CONTAMINATION SURVEYS SHOWED THAT A SMALL QUANTITY OF CONTAMINATED WATER REACHED THE PLANT STORM SEWER SYSTEM AND EMPTIED INTO THE UNIT 2 OIL SEPARATOR SUMP. EXAMINATION OF WATER IN THE SEPARATOR SHOWED GROSS BETA ACTIVITY OF 3.4 TIMES 10 TO THE MINUS 6 MICRO-CURIES PER ML, AND GROSS GAMMA ACTIVITY OF 1.8 TIMES 10 TO THE MINUS 5 MICRO-CURIES PER ML, WHICH IS SLIGHTLY ABOVE BACKGROUND. SAMPLES FROM THE INTAKE BAY COMPOSITE SAMPLER, WHICH IS DOWNSTREAM FROM THE SEPARATOR DISCHARGE TO THE RIVER, SHOWED ACTIVITY OF 1.07 TIMES 10 TO THE MINUS 8 MICRO-CURIES PER ML, WHICH IS NOT ABOVE NORMAL LEVELS. THE MAJORITY OF THE WATER FROM THE LINE BREAK AND THE DELUGE SYSTEM ACCUMULATED WITHIN THE PLANT. CLEAN UP AND DECONTAMINATION OF THE PLANT AREA, AND PROCESSING OF THE ACCUMULATED WATER IS IN PROGRESS.

N.J. KALIVIANAKIS STATION SUPERINTENDENT

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