

Fourth CNS International Conference on CANDU Maintenance
November 1997, Toronto, Canada

RECOMMENDED AOV DIAPHRAGM REPLACEMENT FREQUENCIES

Kevin McLeod

Ontario Hydro, Bruce A, B03 MS, Box 3000 Tiverton, Ontario N0G 2T0
Tel: 519-361-2673 X7834

Abstract:

Bruce A has sent out for testing over 70 used control valve diaphragms collected in 1996. The in-service life of the diaphragms range from a few months to 20 years and cover most locations and systems within a CANDU station. The diaphragm testing was performed by the diaphragm manufacturer to determine if the diaphragms still meet their original specification criteria. The results will be compared against original QC batch test results taken at the time of diaphragm manufacture. Based on the trends and degradation mechanisms observed, PM frequencies for critical control valve diaphragms will be established in conjunction with existing industry data. Given the similar process and temperature conditions within CANDU plants, these results should be transferable to all stations.