DISTRIBUTED INTELLIGENCE IN RADIATION MONITORING SYSTEMS A presentation to 44th Annual Conference on Bioassay, Analytical and Environmental Radiochemistry November 15-19, 1998 Kevin J. Sroub BICRON*NE 6801 Cochran Road Solon, Ohio 44139 (440) 248 7400

Abstract

The development of low cost, high performance micro processors and communications modules has enhanced the data reporting capabilities of present nuclear radiation monitoring systems and has created new applications for both data collection and data analysis. The improved instrumentation tools have overcome prior cost considerations and/or physical impracticalities. A system of networked instrumentation is described using standard, readily available hardware and software components. Three examples are given of the network's use in radiation detection situations. The examples are hardware and software independent and can be implemented with standard software on a number of commercially available computers with little or no vendor support.