Proposed Program: Reliability-Centered Maintenance (RCM) for the High Flux Isotope Reactor

There is a desire to implement a reliability-centered maintenance at the High Flux Isotope Reactor (HFIR) at the Oak Ridge National Laboratory to improve system reliability and performance. A Reliability-Centered Maintenance (RCM) structure is proposed for implementation at the HFIR. This proposed RCM structure is based on widely used and accepted industry practices. The HFIR primary cleanup system is used to provide specific applications of the proposed program. The project addresses the need for a methodical process to be developed that can be used on any system where preventative maintenance is desirable. A 7-step process for cost-effective maintenance on a primary cleanup system for the HFIR has been developed and is being proposed in the project.

Student's name: **Eugene Siebert**
School student attends: Middle Tennessee State University
Name of Mentor: Mark Linn
Division: Research Reactors Division
Program: Research Alliance in Math and Science