

## **ORNL - Restart of the High Flux Isotope Reactor 2-07**

### **NUCLEAR SAFETY (NS)**

#### **OBJECTIVE NS-1:**

The nuclear safety program has been appropriately modified to reflect the CS modification and its reactor interface, sufficient numbers of qualified nuclear safety personnel are provided, and adequate facilities and equipment are available to ensure that nuclear safety services are adequate to support HFIR operation with the CS. The nuclear safety functions, assignments, responsibilities, and reporting relationships are clearly defined, understood, and effectively implemented with line management control of safety. The level of knowledge of nuclear safety personnel with respect to operation of HFIR with the CS is adequate. (Core Requirements 1, 2, 4, and 6)

#### Criteria

- The nuclear safety program is established and functioning to support HFIR operations. The nuclear safety functions, assignments, responsibilities, and reporting relationships, including those with the line organizations, are clearly defined, understood, and effectively implemented with line management responsible for safety.
- The nuclear safety functions, assignments, responsibilities, and reporting relationships necessary for safe HFIR operation with the CS are fully integrated within the RRD organizational structure.
- Sufficient numbers of qualified nuclear safety personnel are available to support HFIR operation.
- The level of knowledge of nuclear safety personnel is adequate to support HFIR operation.

#### Approach

##### *Record Review:*

1. Review selected documentation (e.g., administrative procedures, organization charts, and position descriptions) which establishes the roles, responsibilities, interfaces, and staffing levels of the nuclear safety group that supports reactor and CS operations. Review relevant documents to confirm that they reflect input by appropriate nuclear safety personnel.
2. Examine the RRD IWP to confirm that the current and projected needs for nuclear safety support staff have been evaluated and are appropriately captured in the IWP.
3. Review selected nuclear safety training records (such as lesson plans, examination results, and postdrill critique reports) to assess the training program's effectiveness in establishing an adequate level of knowledge.

##### *Interviews:*

Interview selected nuclear safety personnel to determine if they are familiar with

their roles, responsibilities, and interfaces with the reactor and CS operations organization and have adequate knowledge to support reactor operation with the CS.

*Shift Performance:*

None.