

**From:** Richard Eckenrode  
**To:** Bongarra, James; Trimble, David  
**Date:** 7/17/03 4:07PM  
**Subject:** Fire Barrier Thoughts

*Handwritten signature: JMR*

Dave/Jim,

Attached are some initial thoughts re what we might need to consider in the development of criteria for operator manual actions in place of passive, rated fire barriers.

Dick

**CC:** Cai, June

*Handwritten: D/S8*

## **Replacing a Passive, Rated Fire Barrier with Operator Manual Actions**

07/17/03

### **Some Considerations:**

- No (ZERO!) operator actions at the location of, or in the vicinity of the fire.
- Path to controls needs to be considered and cannot pass through the fire area.
- What are environmental conditions along path and at control locations?  
Heat/humidity/air flow? Lighting? Noise? Radiation? SCBA equipment required?
- What are the actions to be taken? Number? Complexity? Difficulty?
- What procedures are necessary? Are they available where necessary?
- What are consequences if operator fails to successfully complete actions?
- What controls does operator need? Are they accessible?
- How much time is available to complete actions? How long will it take the operator to access controls and to complete the actions?
- What information is necessary to perform actions and to know actions were successful?
- What displays are necessary? Where are they? What are their qualifications?
- What alarms are available? Where?
- What communication capability is required? Is it available? Qualifications? Site coverage?
- What training is necessary? Has it been accomplished?
- What credible accidents can occur?