

QA Level 2 Examples

Criticality Alarms

Criticality alarms in areas where special nuclear material is handled, used, or stored in amounts less than the 10 CFR 70.24 mass limits are examples of components which could be designated as QA Level 2 (component not needed to meet regulatory requirements).

Uninterruptible Power Supplies (UPS)

UPS for a Tails Takeoff Station provides power for the air return temperature hardwired trip of the defrost heater (IROFS1). However, on loss of power, the hardwired trip of the defrost heater (IROFS1) fails safe and trips the defrost heater. Therefore, this UPS is designated as QA Level 2 (not needed to support IROFS and failure does not impact IROFS performance, but UPS is needed for reliable Tails Takeoff Station operation).

Compressed Air System

No IROFS require compressed air to perform their safety function nor does the failure of the compressed air system impact IROFS performance. Therefore, this system is designated as QA Level 2 (not needed to support IROFS and failure does not impact IROFS performance, but the system is needed for reliable facility operation). If during detailed design the ISA update process (which is part of configuration management), determines that compressed air is required to support IROFS operability, then it would be required to be designated as QA Level 1.

Load Cell (Takeoff Stations)

IROFS38, Cylinder Over fill Administrative Control, is the use of procedures and training, to administratively control cylinder over fill by verifying that cylinder weight is within specified limits once per shift. IROFS38 is not specific with regard to the device used to verify cylinder weight. The intent of IROFS38 is to provide preventive protection for ensuring that the overfilling of a cylinder does not go undetected. IROFS38 ensures that the operations staff observes the fill trend of the cylinder. The accurate weight of the cylinder is not particularly relevant. Operator training and experience and the procedural control to check once per shift are relied on to ensure that the cylinder is filling properly. If the associated load cell to be used to perform IROFS38 were to become inoperable, other means are available to determine the weight. As such, the load cell used to perform IROFS38 is not required to be designated an IROFS and therefore is not required to QA Level 1. However the load cell is necessary to support reliable facility operation and therefore would be designated as QA Level 2.