

Mark Dieterle

From: tk@srs.gov
Sent: Wednesday, July 21, 2010 4:39 PM
To: ftti@srs.gov
Cc: Mark Dieterle; @srs.gov; rs@srs.gov
Subject: Quantumwear

Had excellent feedback from the facility RCI who wore the Quantumwear. While construction workers were preparing equipment for removal, the inspector noticed a dirty area on the workers coveralls. He stopped the work and probed the dirty area which read 100,000 dpm beta-gamma. The outer pair of Quantumwear was removed and the inner coveralls probed no detectable. They were impressed.

We experienced some problems with the hood working out of the coveralls during work. Maybe if the hood was a little longer it may correct this problem or velcro the coverall and hood. We are wearing the Quantumwear again and are using masking tape to prevent the hood from coming out of the coveralls and are also using the cloth hood.

A test was performed between the Orex coveralls and the Quantumwear using actual contamination in the Saltstone Process Room. This test was performed using the disposable coveralls as the outer wipe, poly cotton coveralls as the inner wipe and a massilin cloth to represent modesty clothing. This test was performed both dry and with wet cotton inner. There was not much difference between the two tests. The test revealed the following average results:

OREX

Outer Cover Probed - 80,000 dpm beta-gamma
Inner Coverall Probed - 10,000 dpm beta-gamma
Massilin Cloth Probed - No Detectable

Quantumwear

Outer Cover Probed - 100,000 dpm beta-gamma
Inner Coverall Probed - No Detectable
Massilin Cloth Probed - No Detectable