MFFFNPEm Resource

From: Tiktinsky, David
Sent: Wednesday, February 24, 2010 8:17 AM
To: Wescott, Rex
Cc: Morrissey, Kevin; Oesterle, Eric; MFFFHearingFile Resource
Subject: FW: Some additional fire concerns to fill some holes OUO
Attachments: ISAS 5 3 4 Transient In Situ Change pages.pdf.p7m

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From: Gwyn, Dealis W. [mailto:DWGwyn@moxproject.com]
Sent: Tuesday, February 23, 2010 12:05 PM
To: Tiktinsky, David
Subject: RE: Some additional fire concerns to fill some holes

Dave,

Below are our responses and planned changes to the ISAS to address the two questions. Attached are the planned changes to the ISAS to reflect the responses.

Let me know if you need additional info.

Dealis

Question 1

Carpets and rugs are not currently used in the MOX Fuel Fabrication Building. If it is determined later that they will be installed, the carpets and rugs will be tested in accordance with NFPA 253.

Protective coatings for floors will be fire resistant with the following combustibility characteristics:

- Flame spread: 25 or less ASTM E84
- Smoke development: 50 or less per ASTM E84

Question 2

With the exception of F-01, *Fire In AP Process Cell*, ignition source controls apply to transient ignition sources only. The evaluation of AP process cell fire credits the elimination of all electrical equipment in the cell. For all other events, the design features of facility equipment that minimize ignition sources is not credited. These features include the use of conduit for power/control cable, metal enclosures for electrical cabinets/switchgear, and motor housings. These features are incorporated through the implementation of codes and standards such as NFPA-70, *National Electric Code*, NFPA-801, *Standard for Fire Protection for Facilities Handling Radioactive Materials*, and the use of UL/FM approved components.

The current evaluation of fires assumes that an ignition source may be present and may initiate a fire. The implementation of these codes and standards minimizes the potential for fire initiation, however, it is not credited in meeting the performance requirements of 10 CFR 70.61.

To clarify the safety function of Ignition Source Controls and associated applicability, the ISAS is being revised as described below.

ISAS

Section 5.3.4.2.1 - Revised event risk discussion to clearly state that Ignition Source Controls includes both transient and in situ sources.

Sections 5.3.4.2.2, 5.3.4.2.5, 5.3.4.2.6, 5.3.4.2.7, 5.3.4.2.8, 5.3.4.2.10, 5.3.4.2.11, 5.3.4.2.14, 5.3.4.2.15, 5.3.4.2.18, 5.3.4.2.19, 5.3.4.2.20 - Revise event risk discussion to clearly state that Ignition Source Controls applies only to transient sources. Revise event defense in depth discussion to include use of UL-listed or FM approved components and implementation of industrial codes and standards such as NFPA 70 minimize potential for a fire by limiting in situ ignition sources.

Section 5.3.4.3.2, IROFS Administrative Controls - Revised Ignition Source Controls description to clearly describe transient/in situ and transient ignition Source Controls.

Table 5.3.4-3, Fire Events Summary Results - Revised table to clearly state the scope of Ignition Source Controls as applicable. Example "Ignition Source Controls (transient)" and "Ignition Source Controls (transient & in situ)" for F-01.

Table 5.3.4-5, List of Administrative IROFS - Revised table to list transient/in situ ignition source controls and transient ignition source controls as separate administrative IROFS and identify applicable events for each IROFS.

From: Tiktinsky, David [mailto:David.Tiktinsky@nrc.gov]
Sent: Wednesday, January 27, 2010 4:26 PM
To: Gwyn, Dealis W.
Cc: Morrissey, Kevin; Oesterle, Eric; Roman, Cinthya; MFFFHearingFile Resource
Subject: FW: Some additional fire concerns to fill some holes

Some additional clarifications related to the fire review. Thanks.

From: Wescott, Rex
Sent: Wednesday, January 27, 2010 2:35 PM
To: Morrissey, Kevin
Cc: Tiktinsky, David
Subject: Some additional fire concerns to fill some holes

Hearing Identifier: MixedOxideFuelFabricationFacility_NonPublic
Email Number: 1640

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Received Date: 2/24/2010 8:16:52 AM
From: Tiktinsky, David

Created By: David.Tiktinsky@nrc.gov

Recipients:
"Morrissey, Kevin" <Kevin.Morrissey@nrc.gov>
Tracking Status: None
"Oesterle, Eric" <Eric.Oesterle@nrc.gov>
Tracking Status: None
"MFFFHearingFile Resource" <MFFFHearingFile.Resource@nrc.gov>
Tracking Status: None
"Wescott, Rex" <Rex.Wescott@nrc.gov>
Tracking Status: None

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