"Sullivan, Kenneth" <ks@bnl.gov> "Rebecca Nease" <RLN1@nrc.gov> 6/27/01 1:58PM RE: What's in 99M and 98J?

Subject:

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I dont have a list of ALL SSD cables that may be affected by fire in these areas - Besides its probably too extensive to e-mail! During the inspection I selected a "sample" of redundant components of hot-shutdown systems determined to have fire-risk significance. Specifically: EFW, Makeup, and Service Water. From this list of components I then reviewed ANO data (PDMS cable database output) depicting the routing of power and control cables associated with each of the selected components. Based on this review I determined that many redundant components associated with a number (all) selected systems could be affected by a fire in Zones 98J and 99M. Although I do not have a list of ALL affected cables, I can provide a summary of "Affected Components" for each zone:

1. In Zone 98J - A sample of potentially affected components include:

- Redundant EDGs (K4A and K4B) - Control Cables

- EDG lockout relay (actuation would not totally prevent a manual start of the EDG but would prevent a normal local start at the EDG control panel and require additional operator actions to bypass)

- EDG Output breakers (both trains) - loss of both EDG power supply trains

- SW to EDG Jacket Cooler valve (CV 3806 and CV 3807)- control cable damage could prevent normally closed valves to automatically open upon EDG start may require operators to trip EDGs and enter a SBO condition to prevent mechanical damage to EDG

- Redundant EFW pumps P7A and P7B - Control Cables

- Redundant EFW flow valves - control cable damage may result in a loss of EFW flow to either SG

- EFW Pump P7B Suction Valves (CV2800, 2803, 3850) - susceptible to spurious closure - closure could lead to pump damage

- Redundant Steam Supply valves - Susceptible to closure resulting in a loss of steam to TDEFW Pump

- Redundant Makeup Pumps P36A, B and C - Control cables

- Redundant Steam Generator Dump Valves and Block Valves - Control Cables

- Pressurizer ERV and ERV Block valves (PSV-1000 and CV-1000) - May cause loss of controlled pressure relieve - Note: PSV 1000 is normally closed and affected cables will NOT cause spurious opening

- Redundant Service Water Pumps, P4A, B and C Control Cables

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- Redundant Service Water Pumps, P4A, B and C - Control Caules - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to cables of individual breakers - may cause loss of all vital AC power - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to cables of individual breakers - may cause loss of all vital AC power - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to SWGR A3, A4, B5 and B6 coupled with damage to control -> Very havel to - DC control power to state to control power to control

2. Fire Zone 99M

- Redundant Service Water Pumps, P4A, B and C - loss of operability due to P4A control cable damage and Power and Control cable damage to P4B and C. May require trip of EDG to prevent mechanical damage. Off-site power assumed by ANO to be unavailable for all fire zones

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- EDG Output breakers (both trains) - loss of both EDG power supply trains

Redundant EFW pumps P7A and P7B - Instrument and Control Cables -

Redundant EFW flow valves - control cable damage

- Redundant Makeup Pumps P36A, B and C - Control cables

- Redundant Steam Generator Dump Valves and Block Valves - Control Cables

Hope this helps your training -- by the way -- give me a call 631-344-7915

-----Original Message-----From: Rebecca Nease [mailto:RLN1@nrc.gov] Sent: Wednesday, June 27, 2001 11:51 AM To: Sullivan, Kenneth Subject: What's in 99M and 98J?

At noon, I've talked the FP training folks into reviewing the 99M and 98J issues. Could you e-mail to me exactly the SSD cables that are potentially lost to a fire. Were there any indication cables?

Thanks, Rebecca