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Subject: III.G interpretations

~~PREDECISIONAL INFORMATION~~

Based on our discussions, have I got it right in the attached?

CC: Alex Klein; Daniel Frumkin

N-63

Two redundant Trains, A and B. Two separate, non-contiguous fire areas, X and Y.

III.G.1. Train A cable(s) pass through X and not Y. Train B cable(s) pass through Y and not X. Fire in X cannot affect Train B. Fire in Y cannot affect Train A. No cable protection needed in either X or Y.

III.G.2. Train A and Train B cables both pass through X. Either Train A or Train B cables, but not both, must be protected, since fire in X can affect both Trains. Three choices: (a) 3-hr barrier, (b) 20-ft separation with no intervening combustibles and detection/auto suppression, (c) 1-hr barrier with detection/auto suppression.

III.G.3. Same as III.G.2, but cables for neither Train A nor Train B are protected by one of the three options. Additional cable(s), redundant to either Train A or Train B, must exist in area other than X with detection/fixed suppression (manual or auto) in X.

Example:

An MOV has two redundant power cables, both of which pass through X. Unless there is an alternate, independent means of powering the MOV outside of X, one of the cables in X must be protected by one of the III.G.2 choices. If an alternate, independent means of powering the MOV exists outside of X (e.g., a parallel cable to one of the trains, not passing through X, that can be switched into the circuit manually by an action outside of X), then neither train in X need be protected as per III.G.2 provided detection and fixed suppression are provided in X, as required by III.G.3.