

From: Ray Gallucci >mm
To: Phil Qualls
Date: 2/5/04 2:30PM
Subject: III.G distinctions

Are the distinctions between the three III.G areas as simple as I have depicted in the attached, or is it more complicated?

CC: Alex Klein; James Downs; Mark Salley

N-57

Two redundant Trains, A and B. Two separate, non-contiguous fire areas (zones), 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) 1-hr barrier with detection/suppression, (c) 20-ft separation with no intervening combustibles and detection/suppression.

III.G.3. Same as III.G.2, but cables for either Train A or Train B (or both) are "associated circuits."