

NFPA 11-Proposed 2010 Edition

Standard for Low-, Medium-, and High-Expansion Foam

TIA Log No.: 973

Reference: 10.6.3

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1. Revise 10.6.3 to read as follows:

10.6.3* The foam concentrate induction rate of a proportioner, expressed as a percentage of the foam solution flow (water plus foam concentrate), shall be within minus 0 percent to plus 30 percent of the manufacturer's listed concentration, or plus 1 percentage point, whichever is less. (For information on tests for physical properties of foam, see Annexes C & D.)

A.10.6.3 The rate of concentrate flow can be measured by timing a given displacement from the storage tank. Solution concentration can be measured by either refractometric or conductivity means (see Section D.2), or it can be calculated from solution and concentrate flow rates. Solution flow rates can be calculated by utilizing recorded inlet or end-of-system operating pressures or both.

SUBSTANTIATION: The revision will provide clarity to the criteria for acceptance by identifying the specific tolerance range for the concentration. This range for acceptance is based upon the type of concentration being inducted. The current wording is confusing such that it can be inferred there are discrete allowable set points for acceptance that varies based upon the type of proportioning.

EMERGENCY NATURE: This change must be added since it has come to the attention of the committee that the current wording is confusing and would permit an Authority Having Jurisdiction (AHJ) to accept a foam system that inducts or proportions foam concentrate at a concentration that would violate the listing.