

SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE 3 (TGN 3) ADDRESSING ACCEPTABLE FIRE PUMPS AND OTHER EQUIPMENT

1. Background

Standards for fire pump & other equipment have been discussed during the Technical Sub Committee (TSC) meeting where TSC has agreed on acceptance of equivalent standards. The RSC has developed an independent implementation guidance based on the outcome of the discussion, which may aid industry in completing their remediation plan in a timely manner.

2. Standard Requirement/s:

All new installations to comply with requirements of relevant NFPA standards and equipment are listed from the 3rd party certification agency. Please see the below-

1. Fire Pump Sets: UL/FM or Equivalent third-party listing in accordance with NFPA 20.
2. Pipe: Table 4.2.1 pipe or tube materials and dimensions as per NFPA 14 or Table 7.3.1.1 pipe or tube materials and dimensions (aboveground) and table 6.1.1.1 & 3 (underground) as per NFPA 13.
3. Fitting: Table 4.3.1 Fittings materials and dimensions as per NFPA 14 or Table 7.4.1 Fittings materials and dimensions (aboveground) and table 6.2.1.1 (underground) as per NFPA 13,
4. Valves & Accessories: UL/FM/LPCB, AENOR, CSTB and more, Kitemark logo by BSI (British Standard Institution), SETSCO (Singapore) or Equivalent third-party listing.

3. Implementation guidance:

In addition to UL448 and FM 1311; ISO 5199 is accepted for class 1 fire pumps (excluding drivers, controllers, and power supplies) and tested in accordance with ISO 5198 and ISO 9906. Tests must be performed by independent testing laboratories have the accreditation in accordance with ISO 17025.

1. Sprinkler and standpipe components, meeting the requirements of ISO 6182, Parts 1-14 or BS EN 12259 Parts 1-5 are acceptable.
2. Fire Detection and Alarm system components tested in accordance with ISO 7240 Parts 1-28, or BS EN 54 Parts 1-28 are acceptable.
3. Self-certification in accordance with EN as evidenced by CE mark, is not acceptable in lieu of verification by an accredited independent testing lab.
4. All fire protection components must be compatible and must be installed accordance with the required installation standards.



4. Recommendation:

Section 2 and 3 within this supplementary paper provides listed body, which will assist the user with adequate guidance and knowledge on completing the remediation with standard requirement accordingly.

5. References:

NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection.

NFPA 13, Standard for the Installation of Sprinkler Systems.

NFPA 14, Standard for the Installation of Standpipe and Hose Systems.

Technical Guidance Notes for Fire and Building Safety Remediation in Bangladesh

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