

STATEMENT OF QUALIFIED TECHNOLOGY

Statement No:
1LP2H8N-24

This is to state:

that the technology designated

Paradigms Dry-Flo technology

has been qualified for its designated use with basis in DNV-RP-A203 /1/ as defined in /2/.

Owner: **Paradigm Fire Protection Services Ltd., Howe Moss Drive, Kirkhill Industrial Estate, Dyce, AB21 0GL, Aberdeen, United Kingdom**

Description: The Dry-Flo equipment, software and associated operational processes, facilitate the verification that deluge systems are managed in compliance with the relevant standards (e.g. NFPA 15, API 2030). It provides the empirical evidence required by the verifying technical body that the standards are being met. Dry-Flo will determine areas of the deluge system which may be failing and therefore is validated for use to decrease the frequency of wet tests by substitution with periodic Dry-Flo testing; Dry-Flo is not intended as a substitution for wet test beyond a notional 10-year interval between wet tests. Changes in test frequency shall be made in collaboration with the verifying technical body who has responsibility for the deluge system, to identify any asset-specific threats which may influence the duration of substitution by Dry-Flo before revalidation by wet test. The system can be used for all zoned areas whilst the deluge system remains live. Further detail can be found in /3/ and /4/.

This revision 1 (issued June 2025), was based on updates to the sensors used in the previous revision 0 (issued June 2015). The qualification basis, threat assessment and technology report have been updated accordingly and DNV are satisfied that any new risks introduced are appropriately mitigated ALARP.

Designated use: The Dry-Flo Technology works by passing dehydrated air at a low pressure, low velocity into a deluge system. The air flow pressures are monitored throughout the deluge system at key locations and are then compared against a previous measurement, known as the master signature, which was made with the same pressure sensor layout. Differences in the air flow indicate changed due to any new obstructions in the deluge system caused by corrosion etc., damage or general blockages and flow restrictions in the deluge system, or undocumented changes. The Dry-Flo Technology used for carrying out these measurements consists of Dry-Flo Pressure Regulating Skid (PRS), Dry-Flo Air-Conditioning Skid (ACS), Dry-Flo Data Acquisition System & Software (DAQ) and Dry-Flo Wireless Pressure Transducers (WPT). The application relates to the critical parameters within the Conditions section below. Further detail can be found in /3/ and /4/.

Involvement: DNV has been involved in the qualification process in accordance with /2/. Paradigm have provided parts of the evidence that forms the basis for this statement as specified in ref. /3/ and /4/.

Limitations: Acceptance criteria for products and limits to operation are stated in /3/. The main item to note is that Paradigm attained a level 2 score for organizational capability assessment, recommendations have been made around governance, management of frameworks, and performance tracking etc. to improve this score to level 3.

Conditions: This certificate is only valid together with the Technology Report /4/ that specifies the intended use and limitations and conditions that apply.

Reference documents: /1/ DNV-RP-A203, Technology qualification, September 2021
/2/ DNV-SE-0160, Technology qualification management and verification, February 2018
/3/ DNV Technical Report No.PP121778-01, Rev.2 "Dry Deluge Test Technology Qualification Basis", [DNV, 2025-06-26]
/4/ DNV Technical Report No.PP121778-02, Rev.2 "TQ of Dry Deluge Test System Technology Assessment Report", [DNV, 2025-06-26]

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Statement No: **1LP2H8N-24**

This Statement is valid until: **2029-06-26**

Issued at **London** on **2025-10-20**

for **DNV**

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