

**Assessment Schedule for the Hydro Hire  
PEPP Test for analysing polyethylene  
pipeline pressure testing results**



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**1. Scope**

**1.1** To assess the performance of the Hydro Hire PEPP Test for analysing polyethylene pipeline pressure testing results.

**1.2** The PEPP Test is designed to allow users to input their results from a pressure test on a polyethylene pipeline and to confirm if the pipeline is leaktight. The program asks users to input the start time, the loading time (TL), the start pressure, the system test pressure (STP) and the three pressure readings taken during the test.

**1.3** The program automatically calculates the three reading times as 0+TL, 0+7TL and 0+15TL based on the TL value entered by the user. The program also calculates a predicted fail pressure based on the STP value entered by the user.

**1.4** The program carries out a three point analysis procedure in accordance with the guidance and calculations set out in "A guide to testing of water supply pipelines and sewer rising mains", <sup>(1)</sup> 1<sup>st</sup> edition.

**1.5** The program displays the results of the analysis, which are available in PDF format, and all results are saved on the system to be viewed at any time. Users are given a unique username and password to allow them to use the program and view results.

**2. Assessment schedule**

**2.1** This schedule covers the following assessment areas:

- a) Review of user instructions.
- b) Performance testing of the PEPP Test accuracy.

**3. Review of user instructions**

**3.1** The user instructions which accompany the PEPP Test shall be reviewed.

**3.2** The functionality of the program should be made clear within these instructions and enable the user to input data correctly and interpret results easily.

**4. Performance testing**

**4.1** The PEPP Test shall be tested to ensure it gives results in accordance with the guidance and calculations set out in "A guide to testing of water supply pipelines and sewer rising mains", <sup>(1)</sup> 1<sup>st</sup> edition.

**4.2** A pressure test data set shall be selected to be analysed using the PEPP Test. The range of the test data sets shall ensure that every scenario is tested.

**4.3** The results given by the PEPP Test analysis of the test data sets shall be checked against the expected results.

**5. Reference documents**

- 1. A guide to testing of water supply pipelines and sewer rising mains, 1<sup>st</sup> edition, June 1999, WRc