

### **Environment Group**

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Your ref: Our ref:

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Information Letter 4/2006

Dear George

# Update on the *in-situ* resin lining of water mains under Regulation 27 (10) (b) of the Water Supply (Water Quality) (Scotland) Regulations 2001

This letter provides details of changes to the *in situ* lining of water mains. The letter has been separated into three parts:

- Notification of DWI's withdrawal as nominator of certifying bodies and management of the Operational Requirements and Code of Practice.
- Update to the Operational Requirements and Code of Practice for the *In-Situ* Resin Lining of Water mains.
- Determination of Minimum Spin-Up Time and Adequate Mixing.

Each of these subsections is presented with supporting information below and in the associated Appendices A-D.

# 1. Notification of DWI's withdrawal as nominator of certifying bodies and management of the Operational Requirements and Code of Practice

Currently the List of Approved Products and Processes published by DWQD includes a list of certifying bodies capable of accrediting resin lining contractors and equipment. The list of certifying bodies is nominated by the DWI, who also manage, for the whole of the UK, the "Operational Requirements: *In-situ* Resin Lining of Water Mains" and the "Code of Practice: *In Situ* Lining of Water Mains". Since the issue of Regulation 27 Letter 2/2005 it has been established that it is inappropriate for DWI to manage nominated bodies to accredit contractors due to a potential conflict of interest with DWI's enforcement role in England and Wales.





With effect from 31 December 2006, the DWI will no longer be nominating certifying bodies and the Operational Requirements will be amended to reflect this change. It will be the responsibility of each water utility in the UK to ensure that it introduces processes and procedures that will ensure there is no impact upon water quality of *in-situ* lining. The Operational Requirements: *In-situ* Resin Lining of Water Mains and Code of Practice: *In Situ* Lining of Water Mains will similarly no longer be the responsibility of the DWI from the same date. Further details of the information tabled and associated responsibilities can be found in Appendix A. From 1 January 2007 there will be no DWI nominated certifying bodies and therefore accreditation through these bodies will not be acceptable. The industry should therefore ensure that a replacement scheme is in place by this date.

# 2. Update to the Operational Requirements and Code of Practice for the *In-Situ* Resin Lining of Water mains

Regulation 27 letter 2/2005 gave note of the intention to modify conditions of approval to *in-situ* coatings. The DWQD had previously stated that the document would be updated when appropriate. Since this letter a number of comments have been fed back and expert opinion has been sought. The DWI felt it appropriate to review these comments prior to handing over the management of the documents to the industry on 1 April 2007.

The DWQD therefore wishes to inform you that changes have been made to the Operational Requirements: *In-situ* Resin Lining of Water Mains and Code of Practice: *In Situ* Lining of Water Mains. These documents are posted on the DWI website at: www.dwi.gov.uk/cpp/neworcopindex.shtm. A summary of the comments and feedback, along with the decision made has been detailed in Appendix B. These changes will come into force on 1 April 2007.

### 3. Determination of Minimum Spin-Up Time and Adequate Mixing

A letter was sent to all *in-situ* resin lining manufacturers and contractors dated 9 May 2005 concerning the determination of minimum spin-up time and adequate mixer length. A copy of this letter is attached in Appendix C. The letter detailed that there could be a risk of inadequate mixing, and hence contamination of drinking water, if the spin-up time is not adequate (a risk for the brief period until equilibrium is reached) or the mixer length is not sufficient (a continuous risk while the particular mixer/material/rig is used).

Lining manufacturers are therefore now required to be able to confirm the appropriate spin-up time and in line mixer length to ensure that mixing is satisfactory.

An appropriate safety margin with a view to the spin-up time and mixer length should be specified for various rig/material combinations. This research should be conducted by all lining manufacturers in consultation with the lining contractors and be completed by 1 January 2007.

To date the DWQD has only been made aware of one manufacturer conducting such research, though it recognises that the date for completion of this work has not yet been reached. The DWQD therefore considered it prudent to inform Scottish Water that should relining be undertaken after 1 January 2007, without documented evidence of adequate mixing, then DWQR will interpret this as an offence and will prosecute under Regulation 27 (10)(b) for the use of an unapproved material.





#### 4. Further Information

Enquiries concerning this letter should be directed to Philip Anderson Philip.anderson@scotland.gsi.gov.uk

Yours sincerely

**COLIN MCLAREN** 





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