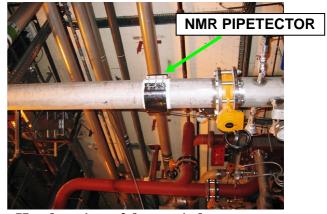
NMR PIPETECTOR Installation Report, in UK Anti-Corrosion Application, Harrods, located in London

NMR Corporation

*Appearance of Building and Installation Place



Appearance of the building



Header pipe of domestic hot water

< Installation Purpose and Result>

Harrods Department Store is situated in Knightsbridge, London and is the Worlds most famous department store, and first opened in 1849. The domestic hot water pipe work in Harrods is approximately 25 to 30 years old and is manufactured from galvanized steel and was experiencing a problem with red rust and discolored water within the domestic hot water supply throughout the building, which was the result of internal corrosion in the pipes.

For the protection of the hot water pipe work from corrosion, one NMR unit of 6 inch (PT-150DS) was installed onto a 168mm outer diameter common hot water header pipe that is connected with two plate heat exchangers.

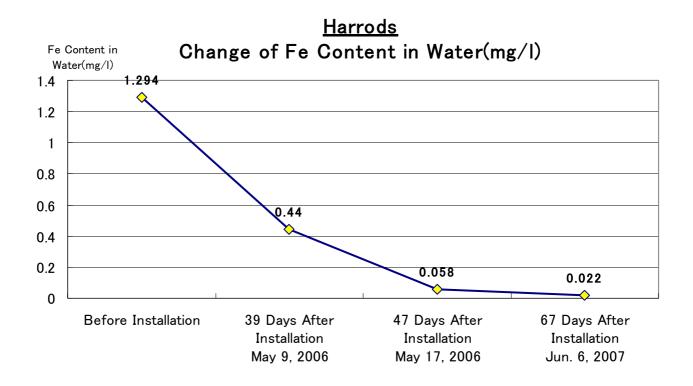
Only 39 days after the installation of NMR Pipetector, the Fe content in hot water decreased from 1.294mg/l (before the installation of NMR Pipetector) to 0.44mg/l, and 47 days after the installation, the Fe content decreased to 0.058mg/l, and 67 days after the installation, the Fe content decreased to 0.022mg/l which is much lower than the British Government Standard for Drinking Water of 0.2mg/l. It means that new forming of corrosion (FeO(OH)) inside of the pipe work was immediately terminated, and the existing corrosion was reduced to magnetite (Fe₃O₄) which is not dissolved into the water and protects the inside of the pipe from corrosion.

< Installation Summary>

Name of Building :Address	Harrods (Department Store)			
	87-135 Brompton Road, Knightsbridge, London, UK			
Duilding Common on	The world's most famous department store.			
Building Summary	The department store first opened in 1849.			
Installation Place	Common hot water header pipe that is supplied by two plate			
	head exchangers.			
Installation Day	March 31 st in 2006			
Installation Place	168 mm outer diameter header pipe of domestic hot water (Steel Galvanized Pipe) PT-150DS×1unit			
Number of installed				
NMR PIPETECTOR	(Sieer Garvanized Pipe) P1-150D5X10IIII			

<Fe content in hot water (mg/l)>

	Before Installation Feb. 6, 2006	Installation Day Mar/ 31 2006	39 Days After Installation May 9, 2006	47 Days After Installation May 17, 2006	67 Days After Installation Jun. 6, 2006	The British Government Standard for Drinking Water
Fe Content in Water	1.294 mg/l		0.44 mg/l	0.058 mg/l	0.022 mg/l	0.2 mg/l



Before Installation

Certificate of Analysis

Report Number :







Laboratory Number :

BR /326022/2006

Cambridge Water Company Sample Point Description : Cambridgeshire Water Company

Sample Description :

Harrods Dept Store Domestic Hot Water Staff Kitchen

Sample Date: 06 February 2006 Sample Received: 06 February 2006 Analysis Complete: 10 February 2006

Accordination Codes: * - Not UKAS according B - Analysed at STL Brighands C - Analysed at STL Diventry, R - Analysed at STL Buncorn, L - Analysed at STL Midlands S - Sub-contracted For Microbiological determinands 6 or ND = Not Detected, DET = Detected, For Legionalla ND-Not detected in volume of sample filtered.

39 Days After Installation

Certificate of Analysis





386985

BR/344300/2006

Sample Source

Cambridge Water Company Sample Point Description: Cambridgeshire Water Company

Sample Description :

09 May 2006

Sample Received

Analysis Complete:

Iron, Total as Fe

Sample Date :

Accreditation Codes : * = Not UKAS accredited; 8 - Analysed at STL Bridgond, C - Analysed at STL Coventry, R - Analysed at STL Runcorn, L - Analysed at STL Midlands, S - Sub-contracted

For Minrobiological determinance 0 or NO - Not Detected, DET - Qurocted, For Conjunction NO-Not detected in volume of sample filtered.

Signed: Down.

Name: T. Down

12 May 2006

Production Manager

Harrods 3-4(080226)

47 Days After Installation

Certificate of Analysis







Laboratory Number :

BR/346143/2006

Cambridge Water Company

Sample Source

Sample Date

Sample Point Description: Cambridgeshire Water Company PETER GOSLING-HARRODS

Sample Description

Sample Received

Analysis Complete:

90 Fulbourn Road

Tel: 01223.70 60 50

Registered office:

ug/l

Accreditation Codes: * - Not UKAS accredited, 8 - Analysed at STL Bridgend, C - Analysed at STL Coventry, R - Analysed at STL Runcorn, L - Analysed at STL Midlands, \$ - Sub-contracted For Microbiological determinands 0 or ND = Not Detected, DET = Detected, For Legionella ND=Not detected in volume of sample filtered.

Name: T. Down

22 May 2006

Production Manager

Harrods 4-4(080226)

67 Days After Installation

Certificate of Analysis





Laboratory Number

BR/350399/2006 Report Number

Cambridge Water Company

Sample Point Description: Cambridgeshire Water Company

Sample Description

Sample Received :

430508

Analysis Complete: 08 June 2006

Iron, Total as Fe ug/I

Accordision Codes: * = Not LIKAS accredited, B = Analysed at STL Bridgand, C = Analysed at STL Covenity, R = Analysed at STL Runcorn, L = Analysed at STL Midlands, S = Sub-contracted Microbiological determinands 0 or ND = Not Doteclad, DET = Detected. For Legionella NDsNot detected in volume of sample filtered.

Name: T. Down

Date: 09 June 2006

Production Manager