ECS Consulting Group

PIPE SAMPLE INSTRUCTION FORM

ECS Sprinkler System Pipe Corrosion Analysis involves sectioning and media blasting the fire sprinkler system pipe sample to allow for visual inspection of the piping component. The Engineered Corrosion Solutions Interpretation and Analysis Report presents a description of the characteristics of the metal loss, evaluation, and measurements of any pitting that has occurred and the most likely cause for the metal loss and failure (if present).

Procedure For Pipe Sample Collection and Sample Preparation

Step 1 If pinhole leak is present on fire sprinkler piping, locate and **mark** pinhole leak/failure with a grease pencil or indelible ink marker.

Step 2 Before removal of piping section, indicate the pipe sample's orientation by marking "TOP" at the 12 o'clock position of the pipe.

Step 3 Remove an approximately 12 to 18 inch section of fire sprinkler pipe with pinhole leak/failure located in the middle of the pipe section.

OR

If no pinhole leak/failure is present, remove approximately 12 to 18 inch section of fire sprinkler pipe which exhibits the most corrosion damage.

Step 4 Allow liquid to drain from pipe sample.

Step 5 Wrap both ends of the pipe sample with plastic and seal with tape or rubber-band to preserve sediment.

EXTERNAL CORROSION – place individual sample into a plastic bag or container to avoid contamination from outside sources (i.e. other pipe samples)

Step 6 Place Pipe Sample in Shipping Container.

Step 7 Complete one **Pipe Sample Information Form** for each pipe sample, clearly identifying the sample, and place the form with the sample in the shipping container. Provide as much of the information as available.

Step 8 Ship Pipe Sample and Pipe Sample Information Form to:

Engineered Corrosion Solutions
Attn: ECS Consulting Group
11336 Lackland Road
Saint Louis, MO 63146
+1 314.432.1377

ECS Consulting Group

PIPE SAMPLE INFORMATION FORM

Customer Information:

Contact Name: ______________________ Company: ______________________

Address: ______________________ City: ______________ State: ________

Zip: __________ Phone: ______________ PO#: ______________________

Email: ____

Sample Location:

Facility: ______________ Address: ______________________________

System Information (check one): ☐ Dry Pipe ☐ Preaction Dry Pipe ☐ Wet Pipe ☐ Supply

Dry or Preaction Air Supply (check one): ☐ Air Compressor ☐ Nitrogen Generator ☐ Other ____________

Wet Pipe Water Source (check one):

☐ Municipal (City) Water ☐ Water Well ☐ Pond or Lake ☐ Water Storage Tank

Approx. Age of System: __________ years

Pipe Sample Information:

Date Collected: ____________

Location (check one): ☐ Riser ☐ Main ☐ Branch Line ☐ Other ________________

Pipe Diameter (inches): ____________

Pipe Schedule (check one): ☐ Schedule 40 ☐ Schedule 10 ☐ Schedule 5/7 ☐ ________________

Pipe Orientation (check one): ☐ Horizontal ☐ Vertical

System Operation Pressure:

Wet System: Water Pressure ________ psi

Dry/Preaction System: Water Pressure ________ psi Maintenance Gas Pressure ________ psi

System Leak History: (e.g. recent leaks when and where, number of leaks) ______________________

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Send Sample(s) To:

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11336 Lackland Road
Saint Louis, MO 63146