



2017 NFPA Conference and Expo

WHAT'S EATING YOUR PIPES? HOW CORROSION LEADS TO SPRINKLER SYSTEM FAILURE AND HOW TO FIGHT IT!

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CONFERENCE & EXPO

REVOLUTIONIZING FIRE, LIFE
AND ELECTRICAL SAFETY



CORROSION SUMMARY: CONDITIONS AND PROBABLE IMPACT

| Condition for Corrosion | Type of Deposits | Types of Corrosion | Relative Rates of Corrosion | Relative Rates of Penetration |
|--|-------------------------|--|---|-------------------------------|
| Iron + Water + Oxygen | Generalized (rust-type) | Generalized (rust-type) | Slow | Slow |
| Iron + Water + Oxygen + Chloride | Generalized | Generalized Some pitting | Generalized faster Pitting faster | Faster |
| Iron + Water + Oxygen + Microbes | Isolated | Localized Pitting Crevice Under-deposit acid attack Oxygen | Generalized slower Pitting much faster | Much faster |
| Iron + Water + Oxygen + Microbes + Chloride | Isolated | Localized Pitting Crevice Under-deposit acid attack Oxygen | Generalized faster Pitting very fast | Very fast |
| Iron + Water (no oxygen) | None | None | Very slow, if any | Very slow, if any |
| Iron + Water + Chloride (no oxygen) | None | None | Very slow, if any | Very slow, if any |
| Iron + Water + Microbes (no oxygen) | Tends to be localized | Tends to be localized | Slow, in most cases | Slow, in most cases |
| Iron + Water + Microbes + Chloride (no oxygen) | Localized | Localized | Faster than without salt | Faster than without salt |
| Iron + Oxygen + Microbes + Chloride (no water) | None | None | None | None |

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truVUE

Inspection Technologies

See *through* your piping
corrosion problems



Inspection Services for Fire Suppression Systems

CORROSION CAN OCCUR IN ALMOST ANY PIPING SYSTEM
WHAT DO YOUR PIPES LOOK LIKE INSIDE?

truVUE specializes in non-destructive testing and analysis of your piping systems.



truVUE
Inspection Technologies
helping create a safer world, one building at a time...

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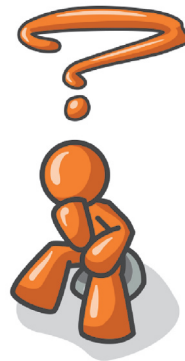
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corrosion problems

Troubled by
Corrosion



truVUE

Can help!

*...when you
need to
know what lies beneath*

HELPING CREATE A SAFER WORLD...ONE BUILDING AT A TIME