HYDROSTATIC PRESSURE TESTING CHECKLIST

BENEFITS OF PREPARING FOR A HYDROSTATIC PRESSURE TEST

• Hydrostatic testing can cost contractors tens of thousands of dollars if not done properly.
• Eliminate common testing frustrations with the MD Hydrostatic Checklist.
• Trapped air in a water line leads to false negative results. Avoid negative results by using the MD Hydrostatic Checklist.

TEST PREPARATION

1. TEST PUMP LOCATION & GAUGE
   • Connect the pump at the low point.
   • Connect a valve between the pump and the test section so the pump will be isolated during the test.
   • Make sure the pump has been properly primed prior to connection.
   • Ensure the pressure gauge is in good working condition.
   • Install the gauge on the pipe side of the valve – not to the pump.

2. FILLING THE LINE
   • Fill the line slowly.
   • Fill from the lowest location.
   • Ensure air release(s) are located at the highpoint of the system.
   • Multiple air release locations may be required.
   • Continue to purge the system until ALL the air is removed.
   • Allow adequate time for cement to hydrate – this may require additional water.

OTHER CONSIDERATIONS

3. ALLOW FOR MOVEMENT
   • Exercising the line by allowing the pipe to rest under pressure will remove all movement prior to the actual test – this may be repeated several times.

4. WATER TEMPERATURE
   • Allow sufficient time for the fill water to adjust to ambient temperatures – fill water temperature at 60 degrees Fahrenheit will cool if ambient temperature is 35 degrees, which will lower the pressure.
   • Exposed piping in the winter will allow the water temperature within the pipe to cool and pressure will decrease.
   • Conversely, exposed piping in the summer, or pipe in direct sunlight will allow the water temperature within the pipe to heat up and pressure will increase.

5. WATER VERSUS AIR
   • Air is compressible, and water is not.
   • To help determine whether you have a leak or trapped air, refer to McWane's Double Bump Test protocol.
   • Contact a McWane Ductile representative prior to using any air for testing.

6. TROUBLESHOOTING
   • Contact a McWane Ductile representative for assistance in the event the hydrostatic test is not successful or if you would prefer on-site training and/or assistance.
   • For a detailed article and video on How to Successfully Prepare & Complete a Hydrostatic Pressure Test visit our Iron Strong Blog at McWane Ductile.com/Blog.