



July 14, 2014

On December 20, 2013 a HydroFLOW S38 water treatment unit was installed on a steam generator at the Santa Fe Indian Hospital. This unit was installed to evaluate the effectiveness of HydroFLOW in preventing and reversing scale accumulation in the boiler and on the heating elements. This was a trial being observed by the Indian Health Services of New Mexico to qualify HydroFLOW for further consideration for use on the boilers, cooling towers and other equipment at their facilities throughout New Mexico

After more than 6 months of operation, the steam unit was opened up and inspected for scale accumulation. Historically, scale was such a severe problem that the heating elements would short out and require replacement. As you can see from Al Garcia's (Santa Fe Indian Hospital Facilities Manager) email, he found the scale free condition of the boiler unit "unbelievable". The savings in maintenance and replacement materials has more than re-cooped the cost of the HydroFLOW unit.

Steamer

Direct treatment of water at feed to steamer

Purpose of Installation

- Reduce limescale inside on steamer.
- Gradually remove existing limescale deposits from these items over time.
- Reduce corrosion rates

Goal

- Quantify the *HydroFLOW* water conditioning unit in the removal and prevention of limescale buildup in the steamer.
- Quantify the cost savings associated with the reduction in maintenance time and increased steamer efficiency.
- Extend life of the steamer product.

Key success factors:

- Improve steamer operational efficiency.
- Significant reduction in scale upon steamer inspection.
- Reduce maintenance requirements.

Installation Details



Installation Point for HydroFLOW S38 Unit

The S38 *HydroFLOW* water conditioner includes a surge protector and plugs into a standard 115 VAC outlet

Mike Koepke

From: Garcia, Al (IHS/ALB) <Al.Garcia@ihs.gov>
Sent: Monday, July 14, 2014 4:43 PM
To: mike@hydroflow-usa.com
Subject: RE: Your Steam Boiler Inspection
Attachments: IMG_20140714_101950.jpg; IMG_20140714_101921.jpg; IMG_20140714_101932.jpg; IMG_20140714_102031.jpg; IMG_20140714_102238.jpg; IMG_20140714_102229.jpg

This is what I sent to my Colleagues. The first picture is of the bottom of the Boiler, as you can see no scale at all and blow down pipe is visible. Second picture is the port for the second bundle of heating elements, also no scale build up on top of boiler. The other 2 pics are of the heating element bundles. Normally these are so full of scale that it would ground itself out and we would have to replace it, but as you can see not a drop of scale. It is unbelievable that it works this good. So your product already paid for itself. Thanks.

Al B. Garcia
SFIH Facilites Department
505-946-9456/9457

