



Albarakah Investment Holding Company L.L.C.

Abu Dhabi, UAE

Installation Date: March 26, 2016



Steam Boiler Room of 1 Bldg of Workers Village

Pipeline system of the building

Identified pipeline of the boiler unit



Invested Units Affected by Corrosion

Replaced piping materials due red rust.

Corroded inside area of the pipe system with some scaling. A strong that water is in acidic conditions.



SW 5 Star Model Installed for the Boiler Unit

Identified 2" pipe for 5 Star Model of SW.

Actual coil done with single layer-38 loops of the coil.



IE 4 SW Model Installed for the Storage/Holding Tank of the Steam Boiler Unit

Coil installation for IE-4 SW Model

1st layer of the coil with 60 loops



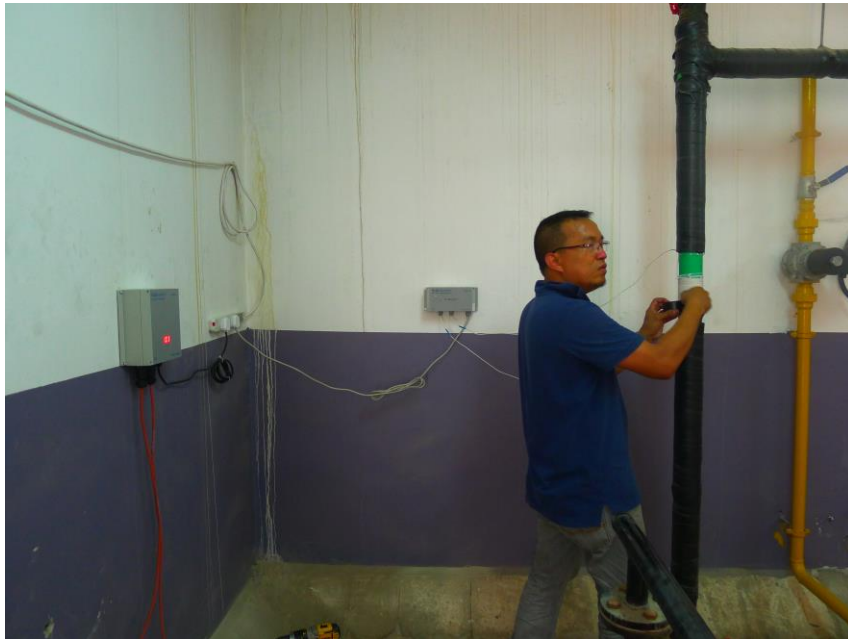
IE 4 SW Model Installed for the Storage Tank of the Steam Boiler Unit

2nd layer of the 60 layer loop

Sealing of the finished 2 layer by 60 loops of coil for IE-4 SW unit



Finished Installation of 5 Star and IE-4 SW Models



Observation(s) after installation:

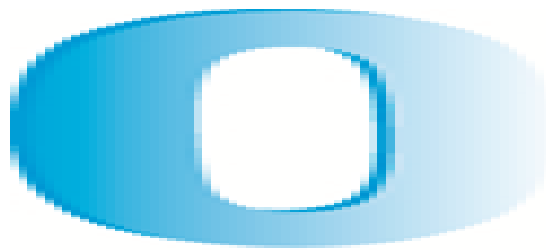
- The invested units such as the pumps, pipeline and other high value equipment are greatly affected by scaling and corrosion caused by water hardness.
- Shutdown operation and high usage of descaling chemicals is the existing maintenance program which is very expensive for the company.
- Water parameter in the area are as follows:

Boiler unit- pH is 5.0-5.5 and water hardness is 140ppm

Storage/Holding Tank- pH is 6.0 and water hardness is 120ppm

-the low or acidic pH of the water in the boiler system is the main reason of high corrosion of boiler system and pipelines which is a high operational expenses for the company.





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