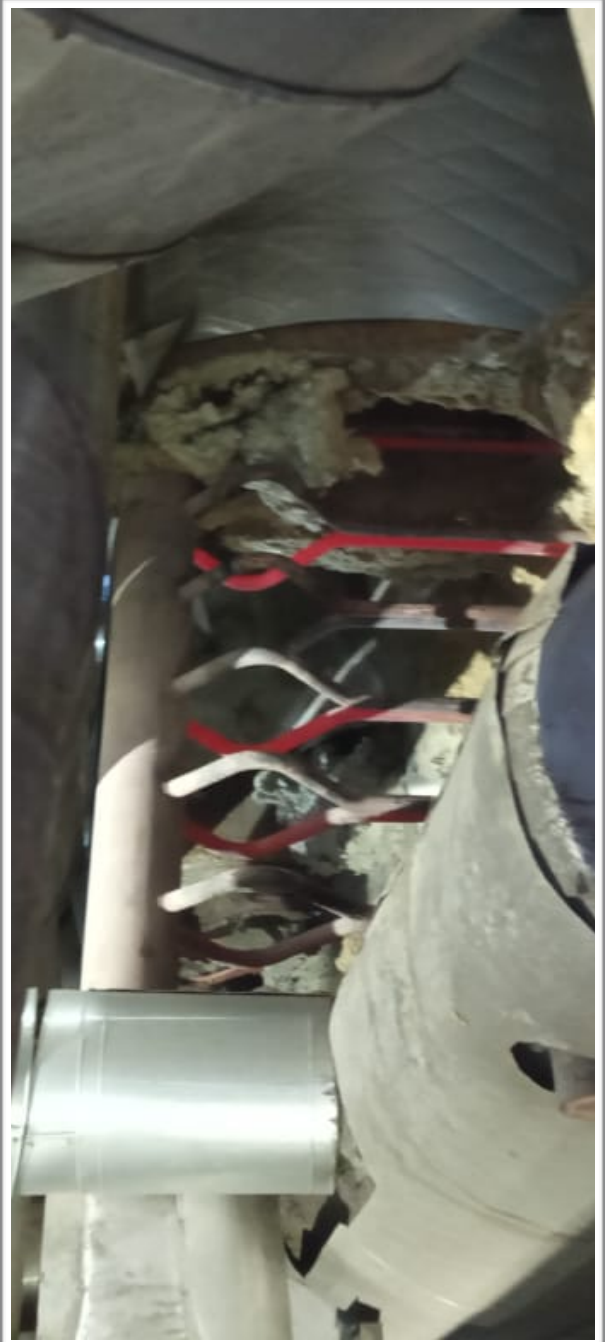
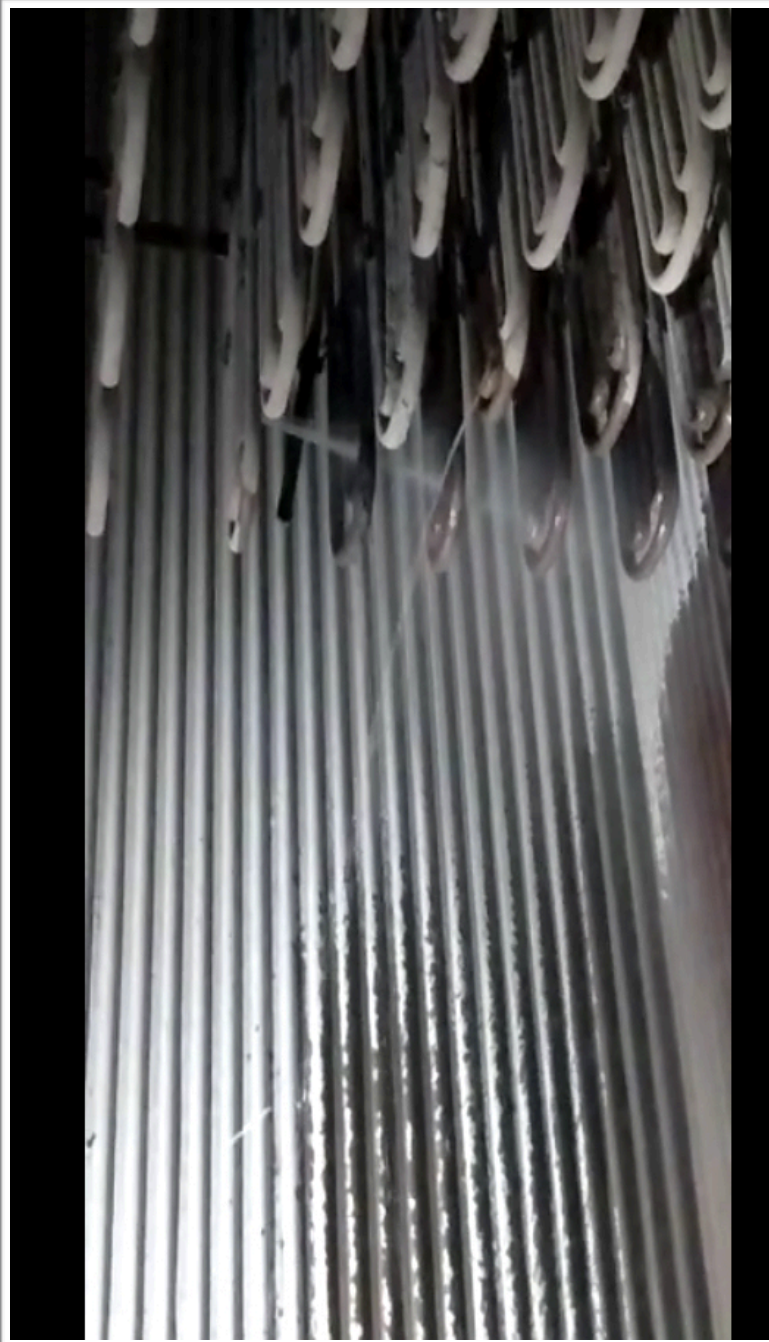


## RED HOT SUPERHEATER COILS - DESIGN FAILURES

RECENTLY COMMISSIONED 45 TPH AFBC BOILER



### A CASE OF DESIGN FAILURE:

High Velocities of steam inside tubes causing less cooling of coils thus metal temperatures remain on higher side.

Higher velocity of Steam, Higher pressure drop across superheater coils & Less Flow of Steam is the culprit.



## **RED HOT SUPERHEATER COILS in OPERATIONAL TG BOILER**

### **A CASE OF LOW LOAD OPERATION FAILURE:**

Low velocities of steam inside tubes causing less cooling of coils thus metal temperatures remain on higher side.

Lower velocity of Steam & Low pressure drop across superheater coils & Less Flow of Steam is the culprit.



**“Both High Pressure Drop & Low Pressure Drop are dangerous for Boiler’s Pressure Parts Life”.**

**Keep a watch on Pressure drop always w.r.t. DESIGN & Allowable VELOCITIES**

**Unite Energy Corporation LLP, Ghaziabad mission is "ENERGY CONSERVATION & TROUBLE FREE WORK ENVIRONMENT" with an idea to reduce plant's cost & maintenance.**

Unite Energy Corporation LLP is keen to provide best support to you to mitigate the irregularities in the plant, best technical services to mitigate breakdown, minimize downtime, improvise design and system performance, operational recommendations, genuine analysis, construction & commissioning services, repair & retrofit services, training and skill enhancement etc, to improve the overall plant's health and performance.

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