Case Study: Illinois Power Plant
Final Report

This Report is for both units seeing as they were identical with build-up and damages.

Face 1 (Catalyst)

The catalyst faces were clean on both units. There was very minimal build up inside of the bundles, but we still blasted downstream to loosen up the build-up inside of the bundles. After blasting and deep cleaning, we still managed to get some bulk rust out from the tube lanes and inside the bundles.

Face 2

Face 2 was worse than the Catalyst face, with areas of surface rust starting to form and deep build-up also starting to form. The flake (rust from between fins) was a major issue in these faces, unit 2 was worse than unit 1.

Face 3

Face 3 is where we ran into lots of build-up in and clogged lanes deep inside of the bundle in both units. Ammonia build-up was also starting to form on the top two (2) tube ties of each unit. Again, the flake was another big issue in these faces.

Face 4 (Stack Face)

The stack faces were the worst of both these units. The top 3 tube ties in both stack faces had a large amount of ammonia salts built up, and flake rust clogging the tubes. Also, in both stack faces, there was several weak, warped, and loose tubes as well as weak or missing fins on the tubes.

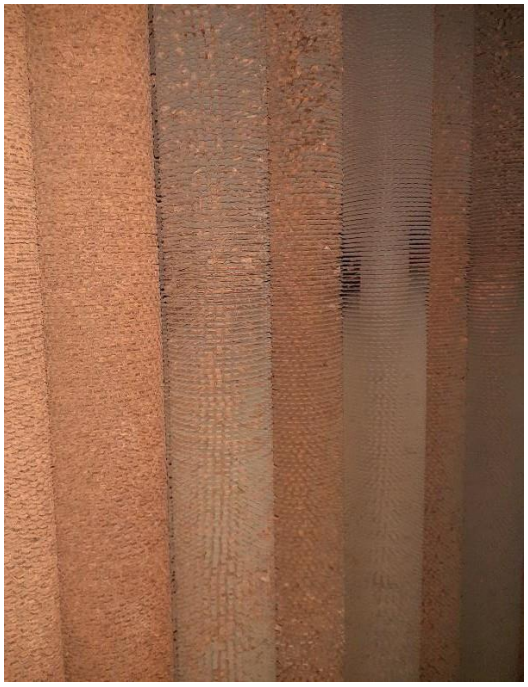
OVERALL REPORT:

Overall, we believe that the amount of bulk flake and ammonia salts that we did get out of this unit will greatly help your back-pressure issue. If possible, would we be able to get a tonnage of the bulk that we did get out of the tubes? We worked out every single lane blockage and did not damage any more tubes in the process.

We would be able to give you a more accurate recommendation on future cleaning if you could let us know the tonnage that we did get out, and the backpressure drop compared to what your backpressure was before we blasted the units.

Last, but not least we as Dry Ice Blasting of Atlanta would like to thank you for choosing us to do the performed work during your shutdown. We hope we worked up to your standards and also hope that we can continue working with you in the future.

BEFORE PICTURES

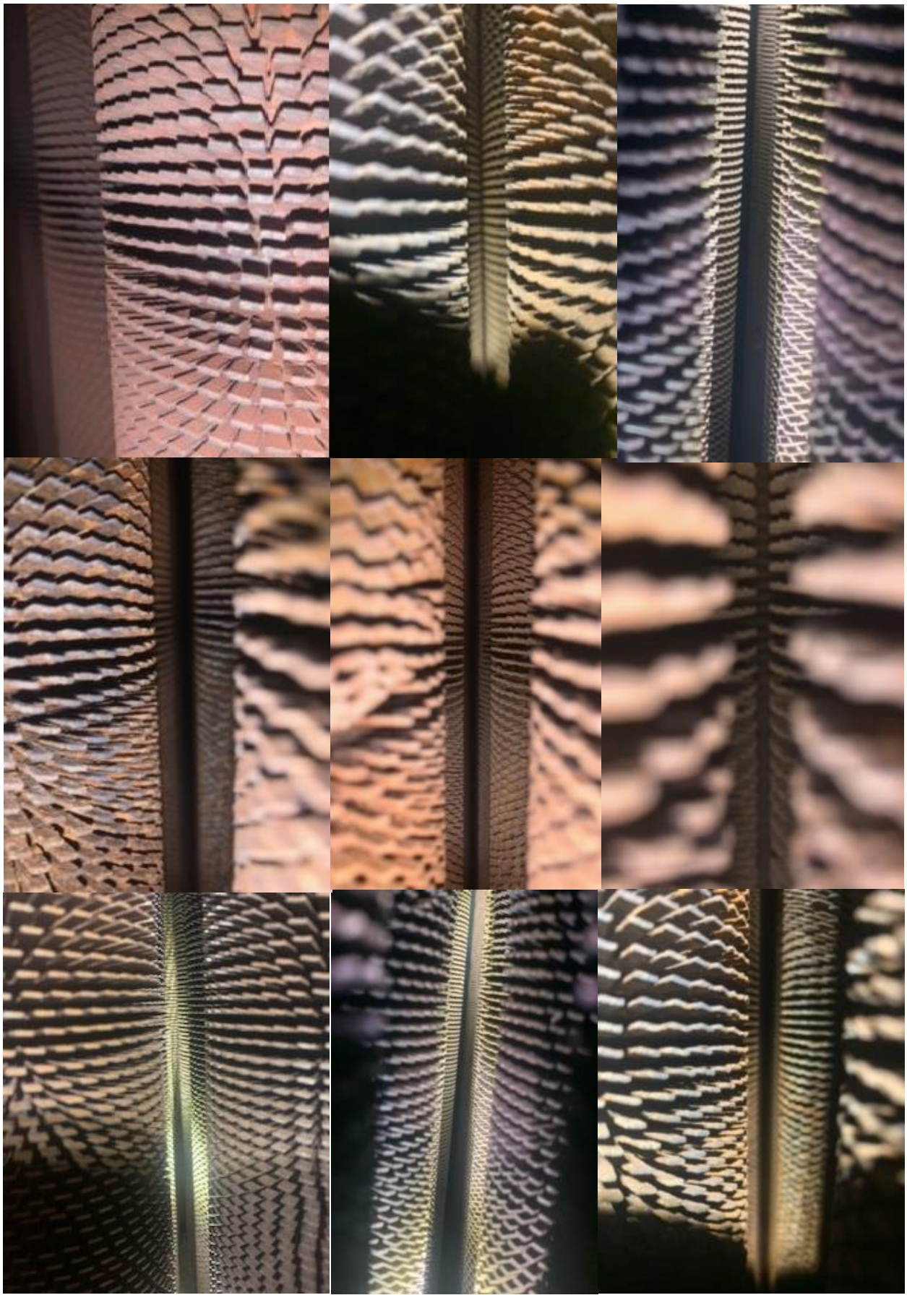








AFTER PICTURES



Dry Ice Blasting
OF ATLANTA

Dry Ice Blasting of Atlanta
3439 Highway 411 NE
Bldg B
White, GA 30184
770.428.7493
www.dryiceblastingofatlanta.com

For more information, contact
johnh@dryiceblastingofatlanta.com