CASE HISTORY

SCE IMPROVES SPITTING

BEFORE

AFTER

An aluminum producer contacted Pittek to see if there might be a way to better control condensed and agglomerated oils from an exhaust system on a single stand cold mill. The droplets were falling to a nearby roof and needed to be better controlled after the airstream passed through their primary control device, a high efficiency mist eliminator.

Pittek offered to conduct a field trip and study to see what might be done. After the site inspection and discussions with the engineer it was decided that because the mill was not in violation of any regulatory issues the problem could best be resolved by redesigning the outlet duct and installing a Pittek SCE.

The duct was redesigned to make provisions for condensed liquid sump and lower velocity exhaust to reduce the tendency for the droplets to be conveyed out of the system. An SCE was installed as well to collect condensed and agglomerated liquid on the walls of the new duct.
In addition the plant engineer heat traced and insulated the drains in the system to reduce the possibility of freezing the oils and replaced the existing roof with a roofing system easier to keep clean in the event of any unexpected coolant emissions.

After several months the new system components have improved the “spitting” of condensed oils very effectively. The SCE is performing very well and because of the significant improvements the company has decided to install similar corrections on another system in the plant.

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