R

Engineering Insurance

Claims Review

Machinery Breakdown

Boiler

Slide No. 1



Damaged fire-tube

Amount of Loss

Swiss Francs 40,000

Damaged Equipment

Fire-tube boiler installed in a brewery

- Output: 370 kW

- Max. pressure: 150 lb/in2 (= 10.3 bar)

- Oil fired

Cause

Lack of feed water

Short Description

Deformation and cracking of fire-tube as a result of overheating

Comments

There are two identical steam boilers at the plant, one being on permanent stand-by. A common feedwater-pump is regulated by the water level controller of the operating boiler.

On changing the operational mode from one boiler to the other, the operator forgot to switch the feed pump to the appropriate control system. Consequently, the pump was not activated when the water level fell. Under normal circumstances, the low-level water safety device would automatically about the plant leather than account to the control of the

cally shut down the plant. In this case, regrettably, it failed.

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