



SCORPION[®] Case Study: Clogged Air Knife

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Clogged Air Knife

Product: Chicken Breast Fillets



Plant: Chicken Processor - Southern U.S.

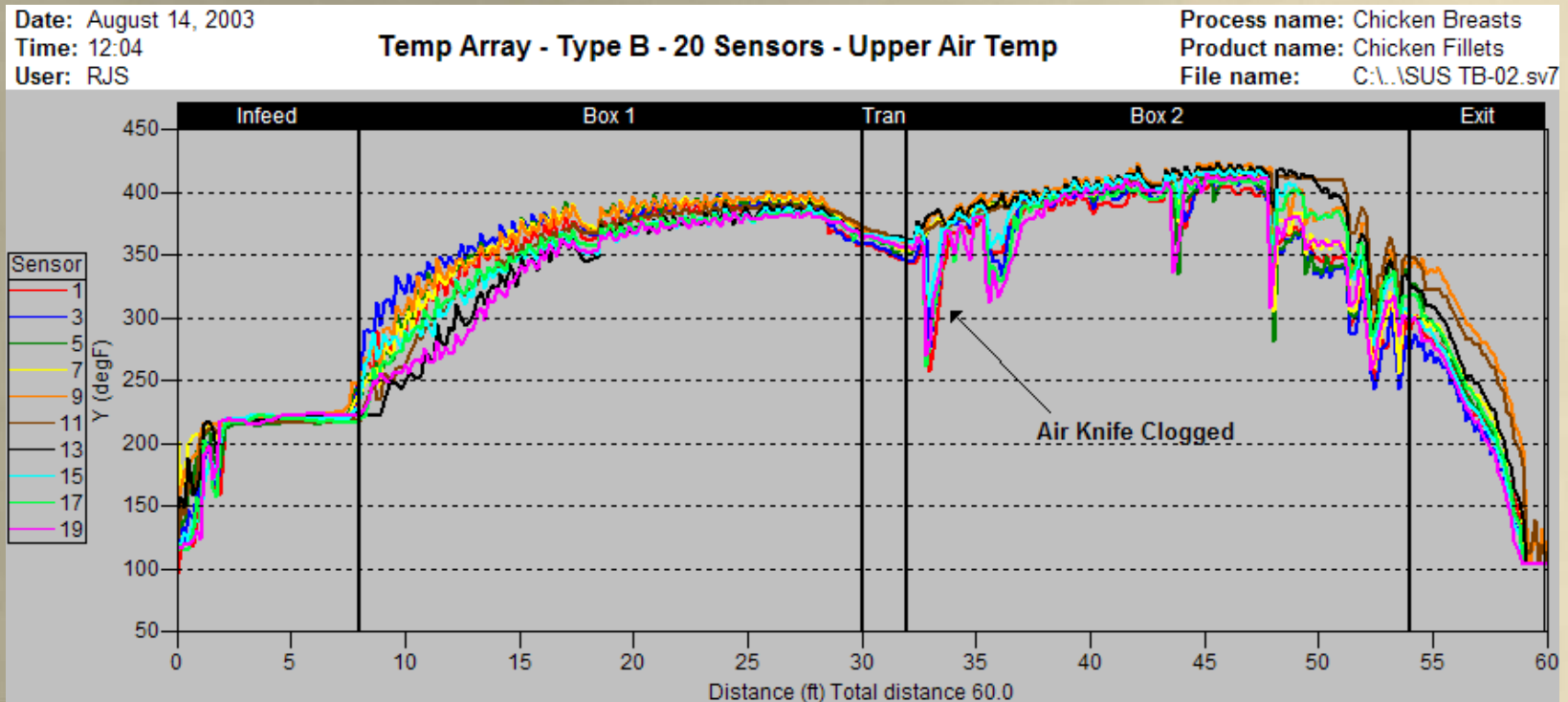
Problem: The company is having trouble producing chicken fillets with a consistent bake, causing low yields. A side-to-side and over-time variation in bake occurs sporadically during production runs.

What is the cause of the variation?



Clogged Air Knife

Analysis: Temperature profiling reveals large temperature drops ($>100^{\circ}\text{F}$) across the band at 32ft into the process, just inside the entrance of Heat Box 2.



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Solution: Physical inspection revealed that an air knife was clogged with product debris. The clog occurs after 2-3 hours of production.

Air knife cleaned and unclogged.

