



CASE STUDY: ADVANTIS® FC PROVIDES IMPROVED CLEANING RESULTS AND HELPS ENHANCE WORKER SAFETY

Ecolab innovation helped customer improve sanitation safety while reducing energy costs and providing improved ATP test data results

CHALLENGE

Plant management of an integrated meatball production plant was interested in saving energy during the sanitation process, while creating a safer work environment. They were also interested in improving their overall Adenosine Triphosphate (ATP) testing results. The plant relies upon Ecolab to understand the challenges of raw beef and suet soil as well as to help audit the process to provide improved ATP results.

SOLUTION

The plant sanitation team partnered with Ecolab to initiate an Advantis® FC cleaning program in the raw processing areas. As part of the program, the plant reduced sanitation water temperatures from 165°F to 130°F (74°C to 54°C). The plant maintained their usual dry pick up procedure, followed by pre-rinsing at 130°F (54°C). Sanitation personnel used the Ecolab central foaming system to apply Advantis FC foam to all plant surfaces at approximately 4 oz/gallon. Equipment was post-rinsed with high pressure water at 130°F (54°C) and an EPA-registered sanitizer was applied as part of a complete Ecolab sanitation program.

RESULTS

IMPROVED CLEANING PERFORMANCE AT LOWER TEMPERATURE

Advantis FC cleaning performance at 130°F (54°C) was equal to or better than the plant's current sanitation program with 165°F (74°C) water according to improved ATP test data collected by the plant. Raw areas of the plant showed reductions in ATP counts of an order of magnitude. In addition, the plant will save approximately \$2,555/year in heating 4,500 gallons of water used in cleaning the raw area of the plant each night to only 130°F (54°C) instead of 165°F (74°C).

ENHANCED EMPLOYEE SAFETY

Reducing high water temperatures for sanitation also allowed plant management to help improve worker safety. According to the American Burn Association, the time for a third degree burn to occur at water of only 155° F (68°C) is only 1 second. At 133°F (56°C), it takes 15 seconds for a burn to occur, and at 120°F (49°C), it takes 5 minutes. The plant is working to reduce the risk of scald injuries during the sanitation shift.

The plant plans to continue working with Ecolab to expand to the remaining 2/3 of the plant and to further reduce water temperature from 130°F (54°C) to 105° - 110°F (40° - 43°C) to increase the realized benefits .

SUSTAINABILITY

Ecolab solutions are designed with a comprehensive approach that can help you conserve resources, improve safety and reduce waste - helping to create a cleaner, healthier, safer environment.

*<http://www.ameriburn.org/Preven/ScaldInjuryEducator'sGuide.pdf>

www.ecolab.com