

# Sunbelt Rentals Industrial Heat Solutions

## Combating the HPAI Virus with Sustained Heat



Sunbelt Rentals was recently invited to participate in a cooperative research and development agreement (CRADA) with the USDA, EPA and Sabre Technical Services. Conducted at Daybreak Farms in Eagle Grove, Iowa, the test was held to review the process and efficacy of the heat treatment method outlined in the FY2016 HPAI Response document published by the USDA in February, as well as to review the process of utilizing  $\text{ClO}_2$  for the treatment of HPAI. The parameters of the test are below.

### TEST VARIABLES

- Two layer barns measuring 65' x 650'
- 10 biological test samples placed at various locations in each barn by the EPA and USDA
- 10 wireless relative humidity and temperature sensors placed throughout the structures by Sunbelt Rentals for monitoring and documentation

### TIMEFRAME



According to the USDA's HPAI Response Document, barns and/or houses must be heated to between 100-120 degrees F for a total of seven days, with at least three consecutive days of heating continuously within this temperature range. Throughout the duration of the test, temperatures in the test barn were consistently maintained between 115-120 degrees F. Two of the sensors did display temperatures slightly lower than 115 degrees F for a short time, but were still well within the guidelines set forth by the USDA.

Results specific to this test are still pending, but the USDA stated the following in the 2016 HPAI Response Document:

*"...scientific evidence at this time demonstrates that heat treatment is effective at eliminating HPAI virus. To-date, application of heat treatment following this guidance has successfully eliminated HPAI virus."*

In addition to participating in this study, Sunbelt Rentals has also successfully designed and executed multiple heat treatment solutions for barns and houses throughout the U.S. in the last 12 months.

For additional information on heat treatment solutions, please call 801-310-4386 or email [lance.gustafson@sunbeltrentals.com](mailto:lance.gustafson@sunbeltrentals.com).