



# CASE STUDY

## University of South Florida

### USF Housing Saves Energy while improving Indoor Air Quality

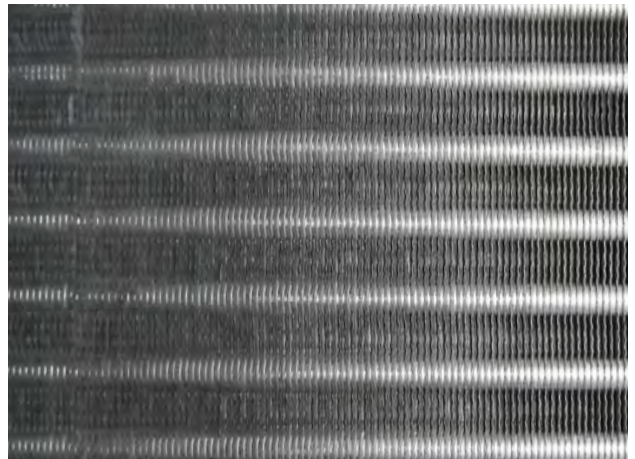
#### The Project:

The University of South Florida (USF) founded in 1956, covers over 1900 acres, 250 buildings, 10 million square feet, 34 residence halls occupy over 5,000 on campus beds, with an enrollment of over 48,000 students, making USF the 4th largest university in Florida. USF is classified by the Carnegie Foundation for Advancement of Teaching in the top tier of research universities and is among three other universities in Florida to hold this highest level of classification. The campus of USF participate in the leadership in Energy and Environmental Design (LEED) a third-party certification program and the nationally accepted benchmark for the design, construction and operation of high-performance, green buildings.

Before



After



BUILDING REMEDIATION SCIENCES



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## The Concern:

USF Housing had received a few comfort and odor complaints from their students and decided to take a proactive approach to solving the issues. Indoor air quality (IAQ) testing and visual inspection found that the culprit was their HVAC systems, including the ductwork. Even though they had been cleaning the HVAC coils themselves utilizing the conventional chemical rinse method, odor and performance concerns still existed. They sought a more thorough method of cleaning the coils to ensure optimal IAQ and operational benefits.

PURE-Steam total HVAC coil and air handling unit (AHU) cleaning, along with hygienic duct cleaning from Pure Air Control Services, Inc. was the ideal solution. This powerful combination not only improved the health and comfort of USF student housing, it also led to operational savings through lower energy costs and reduced HVAC maintenance calls.

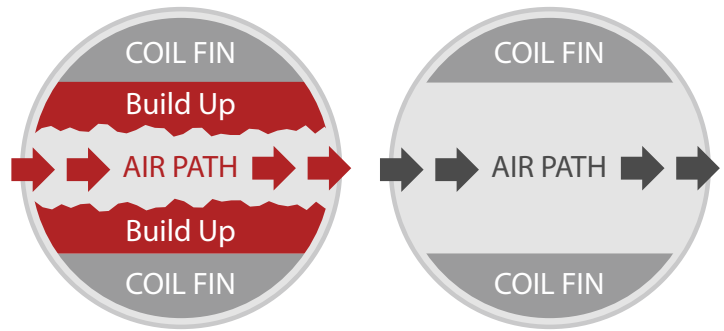
## The Solution:

Due to USF Housing's desire for going green, saving energy and providing a healthy learning environment for staff, guests and students, they turned to the scientists at Pure Air Control Services and the PURE-Steam Coil Cleaning process. PURE-Steam is a totally GREEN process (uses no chemicals) that utilizes a proprietary 280-350 degree steam to deep clean coils. PURE-Steam is certified by the Green Clean Institute and has a proven track record for saving energy, improving indoor air quality and improving comfort. To date, Pure Air Control Services has environmentally cleaned over 500 AHU systems at USF Housing with PURE-Steam Coil Cleaning.

### Benefits of the PURE-Steam Coil Cleaning Process

- Sanitizes the coils/blower assembly
- Removes latent debris from deep within the coils
- Creates improved air flow
- Creates better cooling capacity
- Saves Energy (typically .22 cents per sq ft)
- Improves indoor air quality
- Reduces HVAC related work orders
- Extends HVAC equipment

## Magnolia Hall Revealed Significant Air Flow Improvement



**Obstructed Coils**  
Airflow 40 -50% or  
**463**  
Cubic Feet Per Minute (CFM)

**PURE-Air Cleaned Coils**  
Airflow 95 -100% or  
**640**  
Cubic Feet Per Minute (CFM)

**Net Difference**  
**177 CFM or 38.7%**

