



R&D Department

Visit: CAPS - Houston- USA

Date: December 15, 16, 17 & 18 2009



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1 **Contacts**

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2 Introduction

Custom Air Products & Services, Inc. (CAPS) has become the newest licensed holder of EnergyGuard, USA. The contract was signed December 3rd, 2009 and Certified Application Training was scheduled for the week of December 14th 2009.

The training was held on the 15, 16, 17 and 18 of December. The training was mentioned for three employees of CAPS, who had more experiences with coating coils as expected.

The three employees are:

- Jesus (Jesse) Escobedo,
- Mario Rivera,
- Miguel Fonseca.

The training started with a theoretical followed with a practical application;

- Cleaning old coils and the frame from a roof top unit.
- Cleaning Copper-Copper coils.
- Coating coils with spraying EnergyGuard products.
- Coating frames with spraying EnergyGuard products.
- Flooding coils with EnergyGuard products using the flooding procedures.

3 Practical

3.1 Cleaning

At the moment coils are going to be cleaned using a pressure washer, with the use of the EnergyGuard Coil Cleaner. Noticed that the pressure washer was using a lot of Coil Cleaner. This should be between 2 and 3 pounds per 11 sq ft of coil.

For deoxidizing the coil and frames, we used the product EnergyGuard De-Oxidizer with the support of a dosing unit.

Using the product EnergyGuard De-Oxidizer it is important to take time between the application of the product and the washing.

We showed, that angle and distance is important.



3.2 Spraying Coils

Due the fact that the employees were not unfamiliar with spraying of coils, I was really surprised how they handled equipment in general. They told me that they sprayed Heresite before. After showing them the importance of the angles and distances, they followed the procedures according the protocols.

Even a pre-coated (E-Coat) Micro-Channel was coated.



3.3 Coating Casings

Due the fact that Jesus and his team sprayed many items before, it became clear that I was not training `New` applicators. They knew what to do, in any situation.

- Viscosity
- Distance
- Pressure and others.

What I heard from Jesus is that they were impressed about the EnergyGuard ZRU Primer. After some try- outs, they came more enthusiastic and familiar with the EnergyGuard Cabinet Casing.



3.4 Flooding Coils

We introduced to CAPS a new and simple treatment of coils, mentioned Flooding. From Lauderdale we shipped equipment to demonstrate the process. Every applicator was impressed of the simple kind of application. This type of application can be handled for any type of coil regardless the thickness of the coil. After setting-up a professional application system, more training will be involved.



4 **Result**

After the training I had a comfortable feeling due the fact that Jesus and his team knows every detail what they are doing. In the nearby future some fine tuning in spraying and specially in flooding is required, but in general I am more than convenience to see how CAPS is handling all the details and the application of the EnergyGuard coatings.



5 Conclusion

CAPS, a very professional organization. The following was discussed and advised:

- Keep the product and viscosities as mentioned.
- The products for the pre-treatment, must be applied according the protocols. The dosing through the pressure washer is too much and must be regulated.
- Rest of the process must be according the protocols.
- Very professional way of application.
- CAPS, a professional organization to show customers the processes of EnergyGuard.
- All the applicators deserve the EnergyGuard Certificates.



Jesse Escobedo, Sr. Certified Applicator, Taylor North, President CAPS, Mario Rivera, Certified Applicator, Miguel Fonseca, Certified Applicator & Jos Adamzek, President Engineering, EnergyGuard