

**NATIONAL RENEWABLE ENERGY LABORATORY**

JULY 5, 2017

From: Dane Christensen  
National Renewable Energy Laboratory  
15013 Denver West Parkway  
Golden, CO 80401

To: Buzz Eaves  
Solid Start, Inc.  
3705 Hwy 98 South Site 9-14  
Lakeland, FL 33812

Dear Mr. Eaves:

This letter is to confirm our finding that NREL's recent laboratory study of the Cold-Plus additive in a 10-ton rooftop air conditioning unit (RTU) showed an increased flowrate in the R-410A primary circuit after the additive was installed. The mass flow in the primary refrigerant circuit was observed to increase by approximately 14% when the test article was operated at comparable environmental conditions before and after Cold-Plus was installed. This relative increase was consistent, with minor variation, across several measurement points and appeared independent of which stage the test article was operating in.

NREL was not tasked with diagnosing the cause behind the measured flow rate change, and the finding was not clearly indicated or explained by other experimental observations or results. However the increase is statistically significant based on the measurement accuracy of the Micro-Motion Coriolis flow meter used.

We appreciated the opportunity to work with your team.

Sincerely,



Dane Christensen