

NATIONAL RENEWABLE ENERGY LABORATORY

JUNE 13, 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 refrigerant flowrate in the primary circuit after the additive was installed. The mass flow of R-410A refrigerant was observed to increase by approximately 14% when the test article was operated at comparable test 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