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From: JT Vaughn <jvaughn@industrialheat.co>
To: Tom Darden <tdarden@industrialheat.co>

Sent: 10/22/2013 2:31:05 PM

Subject: 6-cylinder -- why not just build a one cylinder unit?

Tom: I was talking with TBD earlier today and he said he has reservations about whether or not the heating end of the 6-cylinder unit is designed and built to the appropriate specs to be able to withstand the temperatures and pressures it will need to endure.

Also, we are likely going to spend \$30-50k to design, build and instrument the 6-cylinder unit (the heat transfer fluid alone is going to cost between \$12-16k delivered).

If AR is now set on building single cylinders to handle 3-phase power, should we consider building a much smaller scale version of the 6-cylinder, which entails only a single cylinder with 3-phase power? I imagine we would save a lot of money in doing so and the test would be much simpler, safer and maybe less prone to failure. Importantly also, we may be able to get a single cylinder unit up and running quicker than the 6-cylinder unit--especially if we have to rebuild the heating end of it. •

Of course, we may not want to do this b/c the chances that the 6-cylinder unit doesn't survive the 350-day test is probably greater. But, if a single cylinder unit passes the 350-day test with a COP of >2.6, then I'm going to be almost as happy, I think.

AR could be inclined to do this b/c it increases the chances that he receives his next payment.

What are your thoughts?

JT

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