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Greg Shepard



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Ra3 Closed Loop System For Audits



Greg Shepard 5/15/15 Documents

Re: Aaron Mayer, Amber Susan Armstrong, Arnie Fuller, Bill Herzog, Bob Tilden, Brandon Hart...

1 attachment (21.0 KB)

Outlook.com Active View



Ra3 CLOSED LOOP...

Download as zip Save to OneDrive

To ALL:

Put this in your file. It shows the universities involved in verifying our technologies.

Regards, Greg

Greg Shepard

RaPower3

Chief Director of Operations

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From: greg@rapower3.com
To: matt@rapower3.com
Subject: Ra3 Closed Loop Sysytem
Date: Mon, 11 May 2015 14:58:06 -0600

Greg Shepard
RaPower3
Chief Director of Operations
4035 South 4000 West

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EXHIBIT 439
WIT: Shepard
DATE: 4-18-17
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Shepard_Greg-03681
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IAUS CLOSED-LOOP SYSTEM

The third party engineering review was conducted by reputable engineers with Ph.D. and M.S. degrees in Physics, Mechanical Engineering and Nuclear Engineering from prestigious Universities such as M.I.T., U.C. Berkley, U.C. Davis, and DePaul. Collectively, these scientists have many years of accumulated specialized expertise in optical engineering and efficiency, thermal dynamics, combustion stability, liquid rocket engine performance, system optimization, mechanical and fluid systems analysis, solid and gel propellant performance, structural dynamics, rotating machinery and vibration with application to turbine blade rubbing. This review supports that the IAS bladeless turbine and solar panels meet and in some cases exceed all performance and efficiency projections. Perhaps the most telling outcome of this independent engineering review was the conclusion that the IAS bladeless steam turbine can operate as a part of an overall **closed-loop system** or as a **stand-alone component**.

The composite analysis also supports that compared to other solar technologies the IAS technology has a higher overall annual efficiency factor than photovoltaic (PV), traditional concentrated solar power (CSP) such as towers and troughs, and is better or comparable to CSP dish technology. The net conclusion is that based on the functionality and the low-cost design, an IAS solar thermal power plant needs to convert only 5% of the gross annual solar energy hitting its panels to electricity in order to compete with the lowest priced solar technology available today. An IAS solar thermal power plant has an annual solar-to-electric efficiency of nearly 24%.