



March, 2007

**PROPRIETARY ELECTRICALLY CONTROLLED VALVE
IS THE HEART OF A FIRE SUPPRESSION SYSTEM
FOR MOBILE EQUIPMENT**

Safecraft Inc., noted for its specialized race car and aircraft products, and RV Safety Systems have jointly developed a proprietary, remotely actuated, high-rate discharge valve which is the key component of an automatic fire protection system for recreational vehicles and mobile construction equipment.

The new product, designated RValve™, has a design which incorporates an electrical actuator, which is triggered by the EG-400 fire detection system developed by RV Safety Systems. The triggering by the detection systems causes the rapid opening of a spool valve. The spool valve, pre-connected to a supply of pressurized fire extinguishing agent, opens and directs the agent, via piping, to spray nozzles in the effected compartment(s).

The valve body, spool, and release mechanisms are made of Delrin® (a Dupont engineered polymer) and stainless materials. The design and testing addressed the issues of agent compatibility, strength, corrosion, friction build-up, and ambient conditions. The materials have a high dielectric strength for electrical isolation. The valve fittings, for user connection, are brass compression type, set nominally to install 3/8 diameter copper tubing.

The RValve™ has been tested for shock and vibration conditions beyond maximum limits expected for recreational vehicles and construction equipment. It has been leak tested at pressures in excess of the recommended charge pressure.

The RValve™ can also be operated mechanically. There is a simple PUSH knob, connected on the end of the electrical actuator that can, in the rare situation of power loss, over-ride the automatic function. It is normally "Safed" with a pull clip, to prevent accidental firing. Simply pull the clip, and initiate the valve function at any time.

The RValve™ envelope is a compact 2x2x8 inch package, including the electrical connections, and has a simple two-hole integral surface mount bracket for ¼ inch screws. The valve can be mounted in any orientation, but the preferred position is vertical with the Push Knob on top.

The fire suppression agent is Cold Fire®, which is used extensively in race car applications.

For more information and details, please contact:

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