**U.S. Department of Energy
Energy-Related Inventions Program**

**Powell Energy Products, Inc.
Thermal Energy Storage for the Small Packaged Terminal Air Conditioning Unit
Project No. DE-FG36-98GO10311
Quarterly Progress Report
February, 2000**

Project Aim: To finalize the IceBear design for full-scale production, build two preproduction prototypes, and confirm cost projections for production and market analysis.

Task 1 -- Finalize Thermal Energy Storage Tank Design

Some tanks have been successfully made. At this time, we anticipate a production quality tank by the end of February. The photo is our first tank. The dimensions and quality of the tank is very good. We will probably make about a dozen tanks before we get the tank mold adjusted to produce production quality tanks. At least we are back on track!

Task 2 -- Finalize Internal Heat Exchanger

The internal heat exchanger is ready to be installed in the new tank. Testing should begin about March 1.

Task 3 -- Finalize Refrigerant Management and Control Components

The refrigerant management and control components are ready to be attached to the new tank and internal heat exchanger. Testing should begin about March 1.

Task 4 -- Preproduction Prototype Laboratory Testing

No units have been made to be tested.

Task 5 -- Reporting

A final report will be made at the end of the project.

END

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