

(24) Motor Control and Power Conversion Technologies Using FLEXMOD

The key objective of this 18-month program is to develop a flexible, universal, modular inverter platform that can be applied to a range of electric motors from fractional horsepower to 100 horsepower or more.

Total project cost: \$486,484

Funding request: \$389,184

Project Lead: Advanced Energy

Project Participants: Raser Technologies, Inc., Washington State University Energy Program

Start Date: March 28, 2005

End Date: September 28, 2006

Presentations/Publications

None.

Patents

None.

Progress in Past Quarter and Current Status

For the first quarter of 2006, Raser Technologies continued their development testing of the FLEXMOD controller. The primary focus of this testing was software modifications. Therefore, Task 5 of the scope of work is complete. Task 6 was delayed until this testing was completed.

The spending schedule shown below deserves some explanation. Raser has nearly consumed their entire portion of the grant funding. They decided to conserve the remaining grant funds to complete the verification testing under Task 6. They are completing the development testing at their own expense. Since they have already met their cost share requirements, they stopped sending invoices in December. Therefore, we are still making progress on the project even though the invoices from this quarter are much smaller than in previous quarters.

Plans for Next Quarter

As of the writing of this report, Advanced Energy is scheduled to conduct the performance verification testing (i.e., Task 6) the week of June 5, 2006. This delay may force a compressed schedule for completing the final report. However, at this time we anticipate that we will meet the final deadline.