**Matching Grant Final Report
from**

**The University of Tennessee
Nuclear Engineering Department**

to

**The U.S. Department of Energy
Office of Nuclear Energy, Science and Technology
(Contract No. DE-FG02-96NE38146)**

for the

Academic Year 2001-2002

Submitted By:

**H.L. Dodds,
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DOE Patent Clearance Granted
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INTRODUCTION AND OVERVIEW

The DOE matching grant funds are used for undergraduate scholarships, graduate fellowships, equipment, and student recruiting in a manner similar to the use of DOE matching funds in the past. The funds provided by Duke Power, \$10,000, are used in the same way as the DOE funds since the Duke funds are an unrestricted gift. The funds provided by TVA are used to support one faculty member (part-time) and one graduate student (fulltime) to conduct research on advanced reactors. Please note that the attached letters from both TVA and Duke Power state that their intent in providing these funds is so that The University of Tennessee Nuclear Engineering Department can qualify for DOE matching funds.

USE OF DOE MATCHING GRANT FOR 2001-2002

As authorized for the academic year 2001-2002, funds provided by DOE are being used for undergraduate scholarships, graduate student support, equipment, and recruiting. The specific uses for the funds in each of these categories are outlined below.

- **Undergraduate Scholarships**

For the fall semester of 2001, 28 scholarships were granted for a total amount of \$13,000. The recipients were:

Marcus Balanky	750.00
Miranda Ceballos	250.00
Tyler Cornell	750.00
Jaime Davis	250.00
James DeGolyer	750.00
Amanda Desmone	750.00
John Edwards	750.00
Joseph Elmore	250.00
Matthew Francis	250.00
Thomas Harrison	750.00
Robert Higginbotham	750.00
Todd Jennings	750.00
Mathew Jessee	750.00
Patrick Ladd	250.00
Rodney Lockerman	250.00
E.M. David Marsh	250.00
Laney Sims	250.00
Rita Oro	250.00

Jeffrey Phillips	750.00
Julie Pierson	250.00
Johnathan Pope	250.00
Steven Rothfuss	250.00
Matt Singleton	250.00
Thomas Whealton	250.00
Allan Wollaber	750.00
Thomas Woody	750.00
John Vandergriff	250.00

For the Spring semester for 2002, 31 scholarships are being granted for a total of \$13,250. The recipients are:

Marcus Balanky	750.00
Luke Chandler	250.00
Jennifer Cole	250.00
Tyler Cornell	750.00
Jason Curtis	250.00
Jaime Davis	250.00
James DeGolyer	750.00
Kevin Delk	250.00
Amanda Desmone	750.00
John Edwards	250.00
Joseph Elmore	250.00
Matthew Francis	250.00
Jeffrey Galyon	250.00
Dustin Garvey	250.00
Ryan Giar	250.00
Thomas Harrison	750.00
Adam Hetzler	250.00
Robert Higginbotham	750.00
Todd Jennings	750.00
Mathew Jessee	750.00
Patrick Ladd	250.00
E.M. David Marsh	250.00
Rita Oro	250.00
Samuel Outten	250.00
Jeffrey Phillips	750.00
Julie Pierson	250.00
Johnathan Pope	250.00
David Quarin	250.00
Matt Singleton	750.00
John Vandergriff	250.00
Allan Wollaber	750.00

- **Graduate Student Support**

DOE Matching Grant support for graduate students helps UTNE to expand existing research programs and to enter new research areas. The grant is providing partial support for five graduate students during 2001-2002. These students and the corresponding amounts are listed below:

Mohammed Khan	Ph.D. Student – U.S. Citizen (\$1268 through Sep. 01: \$1727 Summer 01 fees)
Patrick McClanahan	Ph.D. Student – U.S. Citizen (\$3,861 through Dec. 2001: \$2,665 projected Jan. – Jun. 2002)
Joseph McConn	Ph.D. Student – U.S. Citizen (\$1857 Fall 01 fees)
Thomas Miller	Ph.D. Student – U.S. Citizen (\$1640 for Dec. 2001)
Daniel Stephens	Ph.D. Student – U.S. Citizen (\$1,882 through Dec. 2001: \$1,882 projected Jan. – Jun. 2002)
Total Graduate Student Support for 2001-2002	\$16,782

- **Equipment and Recruiting**

No new equipment is being purchased during 2001-2002 using DOE matching funds. However, we expect to spend the remainder of the grant for 2001-2002, or \$1,968 (see below), to help us pay for our student recruiting expenses (e.g., brochures, posters, mailings, etc.), which are enormous (in excess of \$10,000 annually).

Total expenditures and commitments of DOE funds:

	Expenditures (Jul. - Dec. 2001)	Projected Expenditures (Jan. - Jun. 2002)
1. Undergraduate scholarships	\$ 13,000	\$13,250
2. Graduate student support	2,235	4,547
3. Equipment and recruiting	<u>0</u>	<u>1,968</u>
	\$25,235	\$19,765

Total: \$45,000