FY 2006/2007 RDT&E,N BUDGET ITEM JUSTIFICATION SHEET DATE: Feb 2005
Exhibit R-2

BUDGET ACTIVITY: 02
PROGRAM ELEMENT: 0602234N
PROGRAM ELEMENT TITLE: MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY

COST: (Dollars in Thousands)

Project Number & Title	FY 2004 Actual	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	FY 2010 Estimate	FY 2011 Estimate
MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY	1,730	3,962	0	0	0	0	0	0

A. MISSION DESCRIPTION AND BUDGET ITEM JUSTIFICATION: This Program Element is funded in its entirety by Congressional Adds.

BUDGET ACTIVITY: 02
PROGRAM ELEMENT: 0602234N
PROGRAM ELEMENT TITLE: MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY

PROGRAM CHANGE SUMMARY:

	FY 2004	FY 2005	FY 2006	FY 2007
Adjustments/Undist. Reductions	-22	-38	0	0
Congressional Action	1,800	4,000	0	0
FY 2004 SBIR	-48	0	0	0
FY 2006/2007 President's Budget Submission	1,730	3,962	0	0

PROGRAM CHANGE SUMMARY EXPLANATION:
Technical: Not applicable.

Schedule: Not applicable.

BUDGET ACTIVITY: 02
PROGRAM ELEMENT: 0602234N
PROGRAM ELEMENT TITLE: MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY

CONGRESSIONAL PLUS-UPS:

	FY 2004	FY 2005
DOD AGILE MANUFACTURING CENTER FOR CASTINGS TECHNOLOGY AT NUWC KEYPORT	0	990

FY 2005 Plan: Effort will support the DoD Agile Manufacturing Center for Castings Technology at the Naval Undersea Warfare Center, Newport, RI.

	FY 2004	FY 2005
FORMABLE ALIGNED CARBON THERMOSETS (FACTS)	0	1,486

FY 2005 Plan: Effort will develop data and information required to design and fabricate parts for Navy aircraft using the Formable Aligned Carbon ThermoSet (FACT) material.

	FY 2004	FY 2005
POROUS MATERIALS	0	1,486

FY 2005 Plan: This effort will determine the corrosion-fatigue crack growth kinetics, study the stress-corrosion cracking resistance and investigate the deformation processes and cracking mechanisms in bi-modal grain structured aluminum alloys. This work is essential to efforts to utilize new, very high strength aluminum alloys in future Navy and Marine Corp combat vehicles and ships. It will provide data on fatigue and stress corrosion cracking on nanostructured aluminum alloys.

	FY 2004	FY 2005
VIRTUAL COMPANY (VC) LINK	1,730	0

FY 2004 Accomplishments: This effort expanded ongoing applied research of the West Virginia High-Technology Consortium Foundation previously sponsored by plus-ups in FY 1997 and 2001. The FY 2004 effort funded the development and demonstration of an advanced Navy Technology Transition Portal prototype. This network facilitates the flow of new technology among naval, other government, and commercial applications, and thereby

BUDGET ACTIVITY: 02
PROGRAM ELEMENT: 0602234N
PROGRAM ELEMENT TITLE: MATERIALS, ELECTRONICS AND COMPUTER TECHNOLOGY

fosters robust businesses in the region. The Department of the Navy's goal was to reduce the total ownership cost of naval systems by increasing the availability of affordable new technologies through increased commercial activity and use of technologies developed primarily for the commercial marketplace.

C. OTHER PROGRAM FUNDING SUMMARY: Not applicable.

D. ACQUISITION STRATEGY: Not applicable.