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NETL REPORTS:

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For Immediate Release
August 17, 2009

Five scientists at the National Energy Technology Laboratory (NETL) will receive the prestigious R&D 100 Award, emblematic of the top 100 most technologically significant new products to enter the marketplace, for their development of a process that simultaneously removes mercury from flue gas while generating clean energy from domestically produced coal.

R&D Magazine annually selects technologies "that can change people's lives for the better" and "improve the standard of living for large numbers of people." The NETL scientists—Mark Freeman, Evan Granite, William O'Dowd, Henry Pennline, and Richard Hargis—will receive the award during *R&D Magazine's* awards banquet in Orlando, Fla., on November 12, 2009.

Freeman is an Engineer and Project Manager with the Power Systems Division and resides in South Park, Pa.; Granite, a Chemical Engineer and Research Group Leader in NETL's Environmental Science Division, lives in Wexford, Pa.; Hargis, a General Engineer and National Environmental Policy Act (NEPA) Document Manager in NETL's Office of Project Facilitation and Compliance, resides in Canonsburg, Pa.; O'Dowd, who resides in Charleroi, Pa., is an Engineer and Project Manager in NETL's Sequestration Division; and Pennline is a Chemical Engineer and Research Group Leader in NETL's Separations and Fuels Processing Division, and lives in Bethel Park, Pa.

The NETL team developed a technology called the "Thief Process for the Removal of Mercury from Flue Gas," which extracts partially burned coal from a pulverized coal-fired combustor using a suction pipe, or "thief," and injects the resulting sorbent into the flue gas to capture the mercury. The process greatly reduces the costs of removing mercury by using already existing coal rather than expensive activated carbon. The process can prevent 90 percent of the mercury from reaching the atmosphere, thereby making the food supply safer for people and generating clean energy from domestic coal. The process was licensed to Nalco Mobotec of Orinda, Calif., which began marketing it in December 2008.

NETL is one of the U.S. Department of Energy's national laboratories. NETL – "the ENERGY lab" – focuses on America's economic prosperity, which requires secure, reliable energy supplies at sustainable prices. Three overarching issues characterize the energy situation in the United States. They are energy affordability, supply security, and environmental quality. The Department of Energy's only government-

owned, government-operated national lab, NETL is a research and technology center where these energy challenges converge and energy solutions emerge. NETL implements a broad spectrum of energy and environmental research and development programs through its own research staff and through funded research at other labs, universities, and industry that will return benefits for generations to come.

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