



Media Release
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Advanced Carbon Capture Demonstration at Coal-fired Power Plant

Colorado Springs, CO (August 16, 2011) – Neumann Systems Group, Inc. (NSG) announced today that they were selected for a \$7,165,423 grant by the U.S. Department of Energy's Office of Fossil Energy. The grant is aimed at reducing the energy and cost penalties of advanced carbon capture systems applied to power plants.

NSG's Carbon Absorber Retrofit Equipment (CARE) project will be located at the Colorado Springs Utilities' Martin Drake Power Plant Unit 7. Patented NeuStream™ absorber technology will be used in combination with an advanced solvent for capture and regeneration of carbon dioxide (CO₂) from a .5 MW flow of flue gas. The NeuStream™ absorber technology is applicable to a variety of solvents and can be added to existing pulverized coal power plants at reduced cost and in a smaller footprint when compared to conventional technologies. The modularity of the NeuStream™ technology contributes to rapid fielding of larger systems and retrofit of existing plants.

Colorado Springs Utilities is a vital partner in the CARE project. Test equipment at the plant from the previous sulfur dioxide (SO₂) pilot plant project will be adapted for the CARE CO₂ program. NSG's SO₂ control technology is now being designed and constructed for operation by 2014 on Martin Drake Units 6 and 7. The system performance will exceed the new and more stringent EPA and State Air Quality requirements. Colorado Springs Utilities' progressive actions have been the means for bringing the NSG technology to the marketplace while at the same time improving the environment and achieving low cost, reliable energy solutions for their customers.

The overall goal of the DOE research is to develop carbon dioxide (CO₂) capture and separation technologies that can achieve at least 90 percent CO₂ removal at no more than a 35 percent increase in the cost of electricity. This would represent a significant improvement over projected increases in electricity costs using existing technologies and would maintain clean coal as the lowest cost U.S. energy resource.

NSG is a privately-owned, 60-person, advanced technology company focused on commercializing gas-liquid contactor systems for emissions control and other applications. Other potential market areas for NSG products include chemical production, pharmaceuticals, energy production, water purification, and oil refining.

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