# PUBLIC ABSTRACT

Applicant (primary) name: Robinson Run Power, LLC

Applicant's address: 1040 Great Plain Avenue, Needham, MA 02492-2517
Street City State Zipcode

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Team Members (if any): T. W. Wheble, Robinson Run, Needham, MA 02492
(listing represents only participants at time of application, not necessarily final team membership)
Name City State Zipcode

M. Dugan, Robinson Run, Frederick, MD 21703
Name City State Zipcode

Will Goss, McMurray, PA 15317
Name City State Zipcode

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Proposal Title: Dry Absorption Process (DAP)

Commercial Application: XX New Facilities XX Existing Facilities

**9** Other, Specify: _____

Technology Type: Emission Control – Coal-Fired Power Plants

Estimated total cost of project:
(May not represent final negotiated costs.)

Total Estimated Cost: $ 24,300,000

Estimated DOE Share: $ 12,000,000

Estimated Private Share: $ 12,300,000

**PUBLIC ABSTRACT (cont=d)**

Anticipated Project Site(s): Monongalia County, West Virginia
Location (city, county, etc.) State Zipcode

Location (city, county, etc.) State Zipcode

Location (city, county, etc.) State Zipcode

Type of coal to be used: Eastern bituminous
Primary Alternate (if any)

Size or scale of project:
Tons of coal/day input
And/or
600 MW (net) Megawatts, Barrels per day, etc.
Other (if necessary)

Duration of proposed project: 111
(From date of award) (Months)

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PRIMARY CONTACT:
For additional information, interested parties should contact: Name

Thomas W. Wheble

Project Manager
Position

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Telephone Number

Robinson Run Power, LLC
Company

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e-mail address

1040 Great Plain Avenue
Address

Needham, MA 02492
City State Zipcode

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Alternative Contact:

Christopher Colbert
Name

Vice President, Coal Development
Position

(781) 444-9980 x246
Telephone Number

Robinson Run Power, LLC
Company

chris_Colbert@genpower.net
e-mail address

1040 Great Plain Avenue
Address

Neehman, MA 02492

City State Zipcode

## PUBLIC ABSTRACT (cont=d)

## Brief description of project:

**Dry Absorption Process Demonstration Robinson Run Power Plant**

This Clean Coal Project demonstrates an emerging multipollutant control technology that will target reduction of sulfuric acid mist ($H_2SO_4$) and mercury, and potentially other heavy metals in a single process. The project will be demonstrated at Robinson Run Power, a 600 MW clean coal power plant currently under development. Robinson Run Power will have a stringent limit for $NO_x$ emissions that will be achieved through the use of an SCR system. Operation of an SCR system downstream of a boiler firing high sulfur coal will increase the formation of $SO_3$. The current boiler flue gas emission control technology uses a wet ESP for acid mist removal and relies on the particulate control device for removal of metals or to inject an expensive activated carbon sorbent. This project treats the boiler exhaust gas with a lime-based sorbent in a dry absorption process (DAP) reactor to facilitate removal of hazardous air pollutants in a downstream conventional fabric filter baghouse. This process eliminates the need for a wet ESP. This project provides a unique opportunity to collect large-scale, long-term operational data on the effects of mercury and acid gas collection efficiencies.