

**APPENDIX B**  
**Public Scoping Summary Report**

for the

American Electric Power  
Mountaineer Commercial Scale  
Carbon Capture and Storage Project  
Mason County, West Virginia

Contract No. 326849x215  
February 2011

INTENTIONALLY LEFT BLANK

PUBLIC SCOPING SUMMARY REPORT FOR THE  
PREPARATION OF AN ENVIRONMENTAL IMPACT STATEMENT  
FOR THE  
AMERICAN ELECTRIC POWER CO.'S MOUNTAINEER COMMERCIAL  
SCALE CARBON CAPTURE AND STORAGE PROJECT  
MASON COUNTY, WEST VIRGINIA

CONTRACT No. 326849x215  
JULY 2010

INTENTIONALLY LEFT BLANK

**TABLE OF CONTENTS**

Introduction..... 1  
Public Scoping Meetings ..... 1  
Public Comments and Concerns ..... 2

**LIST OF TABLES**

Table 1. Dates and Publications for Advertisement..... 1

**APPENDICES**

- Appendix A – Notice of Intent
- Appendix B – Public Scoping Invitation List
- Appendix C –Scoping Meeting Invitation Letter
- Appendix D – Affidavits of Publication
- Appendix E – Public Scoping Meeting Attendee List
- Appendix F – Scoping Meeting Transcript

INTENTIONALLY LEFT BLANK

## Introduction

On June 7, 2010, the U.S. Department of Energy (DOE) issued a Notice of Intent (NOI) to prepare the *American Electric Power (AEP) Mountaineer Commercial Scale Carbon Capture and Storage Project Environmental Impact Statement (EIS)*. The NOI (Appendix A) initiated the public scoping period where members of the public (including federal, state, and local agencies, affected federally recognized Indian tribes, and other interested persons) were invited to comment on the proposed scope and content of the EIS. As part of the NOI, comments and suggestions were requested to be received within the 30-day scoping period and no later than July 9, 2010. The NOI stated that the public scoping meeting would be held at the New Haven Elementary School in New Haven, West Virginia on June 22, 2010.

DOE mailed invitation letters to potential interested parties on June 8, 2010, to attend the public scoping meeting. A list of those who received letters is provided in Appendix B and a sample invitation letter is provided in Appendix C.

## Public Scoping Meeting

DOE held one public scoping meeting for the *AEP Mountaineer Commercial Scale Carbon Capture and Storage Project EIS* on June 22, 2010, at the New Haven Elementary School in New Haven, West Virginia.

In addition to the NOI published in the *Federal Register*, DOE published notices in three local newspapers during the weeks of June 6, 13 and 20, 2010, as shown Table 1. Copies of the Affidavits of Publication are provided in Appendix D.

**Table 1. Dates and Publications for Advertisement**

<b>Newspaper</b>	<b>Dates of Publication</b>
Daily Sentinel and Point Pleasant Register	Tuesday, June 8
Gallipolis Daily Tribune	Sunday, June 13
Gallipolis Daily Tribune	Sunday, June 20
Daily Sentinel and Point Pleasant Register	Tuesday, June 22

The scoping meeting began with an informal open house from 5:00 to 7:00 pm, during which attendees were given informational handouts about the Proposed Action and were able to view project-related posters. Personnel from DOE, AEP and Potomac-Hudson Engineering (PHE) were available to sign in attendees and to answer questions about the project. Seven members of the public attended the public scoping meeting. A list of attendees is provided as Appendix E.

The informal open house was followed by a formal presentation at 7:00 pm given by DOE and AEP representatives that explained the Mountaineer CCS II Project, the NEPA process, DOE's Clean Coal Power Initiative Program, and the ways in which the public could submit comments on the scope of the EIS. After the formal presentation, the public was invited to give verbal comments at the microphone. A court reporter was present at the meeting to ensure that anyone who gave verbal comments was recorded and legally transcribed. A transcript of the formal portion of the meeting is provided as Appendix F. The formal meeting adjourned at 7:39 pm.

All attendees were invited to provide comments, either written or verbal, on the proposed scope of the EIS. Those attendees wishing to provide oral comments were given an opportunity to sign up to do so. Comment sheets were made available for all attendees to provide written comments either at the meeting, or to be faxed or mailed after the meeting. An email address, a postal address, a fax number, and a toll-free telephone number were provided. In addition, individuals could request to receive the Draft EIS and/or the Final EIS or Summary (hard copy of the full EIS or a hard copy summary plus a compact disk (CD) that contains the entire EIS).

Copies of the posters and handouts provided at the Scoping Meeting were provided to the two public reading areas established as a repository for relevant project information. The public reading areas are located at:

- Meigs County Library District, 216 West Main Street, Pomeroy, OH 45769
- New Haven Public Library, 106 Main Street, New Haven, WV 25265

## **Public Comments and Concerns**

Two scoping comments were received at the public scoping meeting. One commenter spoke at the public scoping meeting during the formal comment period. Although this commenter did not have a specific comment about the scope of the project, he spoke about the history of the AEP Power Plant, development of air emission control technologies, and his hope that the Mountaineer CCS II project was successful. One local landowner spoke with a DOE representative at the public scoping meeting, but did not wish to comment during the formal comment period or submit their comment in writing. This individual is a local property owner with property adjacent to the northern boundary of AEP's property. She and her husband do not live there but rent the property. Although they are on city water, she was concerned about impacts to drinking water wells and leaks of CO<sub>2</sub>. (Potential impact to drinking water wells are addressed in Section 3.5 of this EIS.) No other comments were received during the scoping period.

Three people submitted requests to receive a copy of the Draft EIS and/or the Final EIS or Summary (hard copy of the full EIS or a hard copy summary plus a compact disk (CD) that contains the entire EIS).

PUBLIC SCOPING SUMMARY REPORT FOR THE  
PREPARATION OF AN ENVIRONMENTAL IMPACT STATEMENT  
FOR THE  
AMERICAN ELECTRIC POWER CO.'S MOUNTAINEER COMMERCIAL  
SCALE CARBON CAPTURE AND STORAGE PROJECT  
MASON COUNTY, WEST VIRGINIA

# APPENDICES

CONTRACT No. 326849x215  
JULY 2010

INTENTIONALLY LEFT BLANK

APPENDIX A  
NOTICE OF INTENT

INTENTIONALLY LEFT BLANK

an accessible format (e.g., braille, large print, audiotape, or computer diskette) on request to the contact person listed under **FOR FURTHER INFORMATION CONTACT**.

#### Electronic Access to This Document

You can view this document, as well as all other documents of this Department published in the **Federal Register**, in text or Adobe Portable Document Format (PDF) on the Internet at the following site: <http://www.ed.gov/news/fedregister>. To use PDF you must have Adobe Acrobat Reader, which is available free at this site.

**Note:** The official version of this document is the document published in the **Federal Register**. Free Internet access to the official edition of the **Federal Register** and the Code of Federal Regulations is available on GPO Access at: <http://www.gpoaccess.gov/nara/index.html>.

(Catalog of Federal Domestic Assistance Number 84.283B, Comprehensive Centers Program)

**Program Authority:** 20 U.S.C. 9601–9608.

Dated: June 2, 2010.

**Thelma Meléndez de Santa Ana,**  
Assistant Secretary for Elementary and Secondary Education.

[FR Doc. 2010–13571 Filed 6–4–10; 8:45 am]

**BILLING CODE 4000–01–P**

## DEPARTMENT OF ENERGY

### American Electric Power Service Corporation's Mountaineer Commercial Scale Carbon Capture and Storage Project: Mason County, WV; Notice of Intent To Prepare an Environmental Impact Statement and Potential Floodplain and Wetlands Involvement

**AGENCY:** Department of Energy.

**ACTION:** Notice of Intent and Notice of Potential Floodplain and Wetlands Involvement.

**SUMMARY:** The U.S. Department of Energy (DOE or the Department) announces its intent to prepare an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act of 1969 (NEPA) (42 U.S.C. 4321 *et seq.*), the Council on Environmental Quality's (CEQ) NEPA regulations (40 CFR Parts 1500–1508), and DOE's NEPA implementing procedures (10 CFR Part 1021), to assess the potential environmental impacts of providing financial assistance for the construction and operation of a project proposed by American Electric Power Service Corporation (AEP). DOE selected this project for an award of financial assistance through a

competitive process under the Clean Coal Power Initiative (CCPI) Program. AEP's Mountaineer Commercial Scale Carbon Capture and Storage Project (Mountaineer CCS II Project) would construct a commercial scale carbon dioxide (CO<sub>2</sub>) capture and storage (CCS) system at AEP's existing Mountaineer Power Plant and other AEP owned properties located near New Haven, West Virginia.

For the Mountaineer CCS II Project, AEP would design, construct, and operate a CCS facility using Alstom's chilled ammonia process that would capture approximately 1.5 million metric tons annually of CO<sub>2</sub> from a 235-megawatt (MWe) flue gas slip stream taken from the 1,300 MWe Mountaineer Plant. The captured CO<sub>2</sub> would be treated, compressed, and transported by pipeline to proposed injection site(s) on AEP properties within an estimated 12 miles of the Mountaineer Plant where it would be injected into one or more geologic formations approximately 1.5 miles below ground. The project would remove up to 90 percent of the CO<sub>2</sub> from the 235-MWe slip stream and would demonstrate a commercial-scale deployment of the chilled ammonia process for CO<sub>2</sub> capture and sequestration of CO<sub>2</sub> in a saline formation. DOE selected this project for an award of financial assistance through a competitive process under Round 3 (second selection phase) of the CCPI Program.

The EIS will inform DOE's decision on whether to provide financial assistance to AEP for the Mountaineer CCS II Project. DOE proposes to provide AEP with up to \$334 million of the overall project cost, which would constitute about 50 percent of the estimated total development cost, 50 percent of the capital cost of the project and 50 percent of the operational cost during the 3-year and 10-month demonstration period. The total project cost, including both DOE's and AEP's shares, is approximately \$668 million (in 2010 dollars). The project would further a specific objective of Round 3 of the CCPI program by demonstrating advanced coal-based technologies that capture and sequester, or put to beneficial use, CO<sub>2</sub> emissions from coal-fired power plants.

*The purposes of this Notice of Intent (NOI) are to:* (1) Inform the public about DOE's proposed action and AEP's proposed project; (2) announce the public scoping meeting; (3) solicit comments for DOE's consideration regarding the scope and content of the EIS; (4) invite those agencies with jurisdiction by law or special expertise to be cooperating agencies in

preparation of the EIS; and (5) provide notice that the proposed project may involve potential impacts to floodplains and wetlands.

DOE does not have regulatory jurisdiction over the Mountaineer CCS II Project, and its decisions are limited to whether and under what circumstances it would provide financial assistance to the project. As part of the EIS process, DOE will consult with interested Native American Tribes and Federal, state, regional and local agencies.

**DATES:** DOE invites comments on the proposed scope and content of the EIS from all interested parties. Comments must be received within 30 days after publication of this NOI in the **Federal Register** to ensure consideration. In addition to receiving comments in writing and by e-mail [See **ADDRESSES** below], DOE will conduct a public scoping meeting in which government agencies, private-sector organizations, and the general public are invited to present oral and written comments or suggestions with regard to DOE's proposed action, alternatives, and potential impacts of AEP's proposed project that DOE will consider in developing the EIS. The scoping meeting will be held at the New Haven Elementary School at 138 Mill Street in New Haven, West Virginia on Tuesday, June 22, 2010. Oral comments will be heard during the formal portion of the scoping meeting beginning at 7 p.m. [See Public Scoping Process]. The public is also invited to an informal session to learn more about the project and the proposed action at the same location beginning at 5 p.m. Various displays and other information about DOE's proposed action and AEP's Mountaineer CCS II Project will be available, and representatives from DOE and AEP will be present at the informal session to discuss the proposed project, the CCPI program, and the EIS process.

**ADDRESSES:** Written comments on the scope of the EIS and requests to participate in the public scoping meeting should be addressed to: Mr. Mark Lusk, U.S. Department of Energy, National Energy Technology Laboratory, 3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507–0880. Individuals and organizations who would like to provide oral or electronic comments should contact Mr. Lusk by postal mail at the above address; telephone (412–386–7435, or toll-free 1–877–812–1569); fax (304–285–4403); or electronic mail ([Mountaineer.EIS0445@netl.doe.gov](mailto:Mountaineer.EIS0445@netl.doe.gov)).

**FOR FURTHER INFORMATION CONTACT:** For further information about this project, contact Mr. Mark Lusk, as

described above. For general information on the DOE NEPA process, please contact Ms. Carol M. Borgstrom, Director, Office of NEPA Policy and Compliance (GC-54), U.S. Department of Energy, 1000 Independence Avenue, SW., Washington, DC 20585; telephone (202-586-4600); fax (202-586-7031); or leave a toll-free message (1-800-472-2756).

#### SUPPLEMENTARY INFORMATION:

##### Background

Since the early 1970s, DOE and its predecessor agencies have pursued research and development programs that include large, technically complex, projects in pursuit of innovation in a wide variety of coal technologies through the proof-of-concept stage. However, helping a technology reach the proof-of-concept stage does not ensure its continued development or commercialization. Before a technology can be considered seriously for commercialization, it must be demonstrated at a sufficient scale to prove its reliability and economically competitive performance. The financial risk associated with such large-scale demonstration projects is often too high for the private sector to assume in the absence of strong incentives.

The CCPI program was established in 2002 as a government and private sector partnership to increase investment in clean coal technology. Through cooperative agreements with its private sector partners, the program advances clean coal technologies to commercialization. These technologies often involve combustion improvements, control system advances, improved gasifier designs, pollution reduction (including greenhouse gas reduction), efficiency improvements, fuel processing techniques, and other activities.

Congress established criteria for projects receiving financial assistance under this program in Title IV of the Energy Policy Act of 2005 (Pub. L. 109-58; EPLA 2005). Under this statute, CCPI projects must "advance efficiency, environmental performance and cost competitiveness well beyond the level of technologies that are in commercial service" (Pub. L. 109-58, Sec. 402(a)). On February 17, 2009, the American Recovery and Reinvestment Act of 2009 (Pub. L. 111-5, 123 Stat. 115) appropriated \$3.4 billion to DOE for Fossil Energy Research and Development; the Department intends to use a significant portion of these funds to provide financial assistance to CCPI projects.

The CCPI program selects projects for its government-private sector partnerships through an open and competitive process. Potential private sector partners may include developers of technologies, utilities and other energy producers, service corporations, research and development firms, software developers, academia and others. DOE issues funding opportunity announcements that specify the types of projects it is seeking, and invites submission of applications. Applications are reviewed according to the criteria specified in the funding opportunity announcement; these criteria include technical, financial, environmental, and other considerations. DOE selects the projects that demonstrate the most promise when evaluated against these criteria, and enters into a cooperative agreement with the applicant. These agreements set out the project's objectives, the obligations of the parties, and other features of the partnership. Applicants must agree to provide at least 50 percent of their project's cost; for most CCPI projects, the applicant's cost share is much higher.

To date, the CCPI program has conducted three rounds of solicitations and project selections. Round 1 sought projects that would demonstrate advanced technologies for power generation and improvements in plant efficiency, economics, and environmental performance. Round 2 requested applications for projects that would demonstrate improved mercury controls and gasification technology. Round 3, which DOE conducted in two phases, sought projects that would demonstrate advanced coal-based electricity generating technologies which capture and sequester (or put to beneficial use) CO<sub>2</sub> emissions. DOE's overarching goal for Round 3 projects was to demonstrate technologies at commercial scale in a commercial setting that would: (1) Operate at 90 percent capture efficiency for CO<sub>2</sub>; (2) make progress towards capture and sequestration at less than a 10 percent increase in the cost of electricity for gasification systems and a less than 35 percent increase for combustion and oxy-combustion systems; and (3) make progress towards capture and sequestration of 50 percent of the facility's CO<sub>2</sub> output at a scale sufficient to evaluate full impacts of carbon capture technology on a generating plant's operations, economics, and performance. The Mountaineer Commercial Scale CCS II Project was one of three selected in the second phase of Round 3. DOE entered into a

cooperative agreement with AEP on February 1, 2010.

##### Purpose and Need for DOE Action

The purpose and need for DOE action—providing limited financial assistance to AEP's project—is to advance the CCPI program by funding projects with the best chance of achieving the program's objectives as established by Congress: Commercialization of clean coal technologies that advance efficiency, environmental performance, and cost competitiveness well beyond the level of technologies currently in commercial service.

##### The Mountaineer CCS II Project

AEP proposes to design, construct, and operate a CCS facility using Alstom's chilled ammonia process to capture approximately 1.5 million metric tons annually of CO<sub>2</sub> from a 235-MWe flue gas slip stream from the Mountaineer Plant. The captured CO<sub>2</sub> would be treated, compressed, and transported by pipeline to proposed injection site(s) on AEP properties within an estimated 12 miles of the Mountaineer Plant where it would be injected into one or more geologic formations approximately 1.5 miles below the earth's surface. These formations potentially include the Rose Run Formation, which is composed primarily of sandstone, and the Copper Ridge Formation, which is composed primarily of dolomite.

##### *Proposed Carbon Capture Facility Site: AEP Mountaineer Power Plant*

The proposed carbon capture facility would be located at the existing 1,300 MWe AEP Mountaineer Plant and other AEP owned property near the town of New Haven in Mason County, West Virginia. The Mountaineer Plant uses an average of approximately 10,000 tons of coal per day with coal being delivered to the facility by barge on the Ohio River, rail, and conveyors from a nearby coal mine west of the site. The Mountaineer Plant began commercial operation in 1980 and consists of a nominally rated 1,300 MWe pulverized coal-fired electric generating unit, a hyperbolic cooling tower, material delivery and unloading facilities, and various ancillary facilities required to support plant operation. The plant is equipped with air pollution control equipment including an electrostatic precipitator (ESP) for particulate control, selective catalytic reduction (SCR) for nitrogen oxides (NO<sub>x</sub>) control, and a wet flue gas desulfurization unit for sulfur dioxide (SO<sub>2</sub>) control. The plant includes a small chilled ammonia

process validation facility constructed in 2009 which currently captures CO<sub>2</sub> from a 20 MWe flue gas slip stream, and injects the captured CO<sub>2</sub> into the Rose Run Formation and the Copper Ridge Formation beneath the site. Two CO<sub>2</sub> injection wells and three monitoring wells are located on the Mountaineer Plant property to support the injection and monitoring of the injected CO<sub>2</sub>. The property is bounded to the west by U.S. Route 62, to the east by the Ohio River, to the south by AEP's Phillip Sporn Power Plant, and one mile to the northwest (downriver) by the town of New Haven, West Virginia. A coal mine is located to the west of U.S. Route 62.

#### *Proposed Chilled Ammonia Process Carbon Capture Facility*

AEP would construct and operate a chilled ammonia process CO<sub>2</sub> capture system that would be located on AEP's property within the boundaries of the existing power plant. The process would use chilled ammonia to capture CO<sub>2</sub> and isolate it in a highly concentrated, high-pressure form suitable for sequestration. The concentrated CO<sub>2</sub> stream would be cooled and compressed to a supercritical state for transport via a network of pipelines to the injection sites. The process would be expected to remove approximately 90 percent of the CO<sub>2</sub> in the treated flue gas. The system would occupy an area of approximately 500 feet by 1,000 feet, and would process a slip-stream of flue gas after it exits the plant's flue gas desulfurization system. AEP is currently evaluating the optimum location at the plant for the proposed capture facility. Existing infrastructure (roadways, utilities) would be used; however, upgrades or construction of additional infrastructure may be required. Major equipment includes absorbers, regenerators, pumps, heat exchangers, and refrigeration equipment. In addition, maintenance facilities, water-handling equipment and laboratories would be required.

#### *CO<sub>2</sub> Compression and Transport*

Captured CO<sub>2</sub> would be compressed at the Mountaineer facility to approximately 2,000 pounds per square inch pressure and transported via pipelines to injection sites expected to be within 12 miles of the Mountaineer Plant. AEP is currently evaluating potential pipeline routes, which will depend on selection of CO<sub>2</sub> injection sites. However, AEP would use existing rights-of-way to the greatest extent practical. Potential pipeline routes will be considered as part of the NEPA process.

#### *CO<sub>2</sub> Injection and Monitoring*

Captured CO<sub>2</sub> would be injected into one or more geologic formations approximately 1.5 miles below the earth's surface. These formations include the Rose Run Formation, which is composed primarily of sandstone, and the Copper Ridge Formation, which is composed primarily of dolomite. The properties of these formations are known to be generally amenable to sequestration and the formations are overlaid by cap rock that would provide a seal to prevent upward migration of the CO<sub>2</sub>. AEP is considering several of its properties in Mason County, West Virginia, for installation of CO<sub>2</sub> injection and monitoring wells. However, specific injection sites have not been determined as site characterization work is needed to confirm the geologic suitability of specific locations. AEP is in the process of planning characterization work at these properties that would include the drilling of at least one deep test well to evaluate subsurface geology. Information collected during these characterization efforts will be used by DOE in the EIS and by AEP to determine injection locations. Potential injection well sites will be considered as part of the NEPA process.

A monitoring, verification, and accounting (MVA) program would be implemented to monitor the injection and migration of CO<sub>2</sub> within the geologic formations and verify that it stays within the target formations. The MVA program must meet regulatory and CCPI Program requirements and may consist of the following components: (1) Injection system monitoring; (2) containment monitoring (via monitoring wells, mechanical integrity testing, and other means); (3) CO<sub>2</sub> plume tracking via multiple techniques; (4) CO<sub>2</sub> injection simulation modeling; and (5) experimental techniques yet to be developed.

#### **Proposed Project Schedule**

The project proposed by AEP includes four phases consisting of planning, design, construction, and operation of the CCS system. There will be a four-year DOE demonstration phase. AEP plans to start construction in 2013 and begin commercial operations (demonstration phase) by 2015. The schedule is contingent upon AEP receiving the necessary permits and regulatory approvals, as well as financial closing on all the necessary funding sources, including DOE's financial assistance. DOE's decision to provide financial assistance for detailed design, procurement of equipment, construction, and operations is

contingent upon DOE's completion of the NEPA process and the EIS.

#### **Connected and Cumulative Actions**

Under the cooperative agreement between DOE and AEP, DOE would share in the cost of the CCS facilities, injection wells, monitoring wells, pipelines, supporting facilities and site infrastructure, and the operational costs during the 4-year demonstration phase. For other activities that would not occur if not for DOE funding, DOE will evaluate in the EIS and consider the potential impacts associated with these activities as connected actions.

DOE will consider the cumulative impacts of the cost-shared activities along with any other connected actions, including those of third parties. Cumulative impacts analysis will include the analysis of pollutant emissions (including greenhouse gas emission reductions) and other incremental impacts that, when added to past, present and reasonably foreseeable future impacts, may have significant effects on the human environment.

#### **Alternatives, Including the Proposed Action**

NEPA requires that an EIS evaluate the range of reasonable alternatives to an agency's proposed action. The range of reasonable alternatives encompasses those alternatives that would satisfy the underlying purpose and need for agency action. The purpose and need for DOE action—providing limited financial assistance to the proposed AEP project—are to advance the CCPI program by selecting projects that have the best chance of achieving the program's objectives as established by Congress: The commercialization of clean coal technologies that advance efficiency, environmental performance, and cost competitiveness well beyond the level of technologies that are currently in service.

DOE's NEPA regulations include a process for identifying and analyzing reasonable alternatives in the context of providing financial assistance through competitive selection of projects proposed by entities outside the Federal government. The range of reasonable alternatives in competitions for grants, loans, loan guarantees and other financial support is defined initially by the range of responsive proposals received by DOE. Unlike projects undertaken by DOE itself, the Department cannot mandate what outside entities propose, where they propose their project, or how they propose to do it, beyond expressing basic requirements in the funding

opportunity announcement; and these express requirements must be limited to those that further the program's objectives. DOE's decision is then limited to selecting among the applications that meet the CCPI's goals.

Recognizing that the range of reasonable alternatives in the context of financial assistance and contracting processes is in large part determined by the number and nature of the proposals received, Section 216 of DOE's NEPA implementing regulations requires the Department to prepare an "environmental critique" that assesses the environmental impacts and issues relating to each of the proposals that the DOE selecting official considers for an award (*see* 10 CFR § 1021.216). This official considers these impacts and issues, along with other aspects of the proposals (such as technical merit and financial ability) and the program's objectives, in making awards. DOE prepared a critique of the proposals that were deemed suitable for selection in this round of awards for the CCPI program.

After DOE selects a project for an award, the range of reasonable alternatives becomes the project as proposed by the applicant, any alternatives still under consideration by the applicant or that are reasonable within the confines of the project as proposed (*e.g.*, the particular location of the processing units, pipelines, and injection sites on land proposed for the project) and a "no action" alternative. Regarding the no action alternative, DOE assumes for purposes of the EIS that, if DOE decides to withhold financial assistance, the project would not proceed.

DOE currently plans to evaluate the project as proposed by AEP (with and without any mitigating conditions that DOE may identify as reasonable and appropriate), alternatives to AEP's proposal that it is still considering (*e.g.*, sales options for CO<sub>2</sub>, location of alternative pipeline routes, and location of injection and monitoring wells on properties owned by AEP), and the no action alternative. DOE will consider other reasonable alternatives suggested during the scoping period.

Under the no action alternative, DOE would not provide funding to AEP. In the absence of financial assistance from DOE, AEP could reasonably pursue two options. It could build the project without DOE funding; the impacts of this option would be essentially the same as those of AEP's proposed action, except any DOE-required mitigations would not be imposed. Alternatively, AEP could choose not to pursue its project, and there would be no impacts

from the project. This latter option would not contribute to the goal of the CCPI program, which is to accelerate commercial deployment of advanced coal technologies that provide the United States with clean, reliable, and affordable energy. However, as required by NEPA, DOE analyzes this option as the no action alternative for the purpose of making a meaningful comparison between the impacts of DOE providing financial assistance and withholding that assistance.

Alternatives considered by AEP in developing its proposed project will also be discussed in the EIS. AEP is considering locations for the injection and monitoring wells on properties selected by AEP, and the pipeline corridors to be used to transport CO<sub>2</sub> for sequestration.

#### **Floodplains and Wetlands**

The footprint of the proposed Mountaineer CCS II Project that would be constructed at the existing Mountaineer Plant and on other nearby AEP properties would be designed to avoid or minimize potential impacts to wetlands or floodplains. Wetland and floodplain impacts, if any, which would be expected to result from installation of monitoring and injection wells, or the construction of CO<sub>2</sub> pipelines or other linear features required for this project, would be identified during preparation of the EIS and described in the EIS. In the event that the EIS identifies wetlands and floodplains that would be affected by the proposed project, including as a result of pipeline routes, injection facilities, or connected actions, DOE will prepare a floodplain and wetland assessment in accordance with its regulations at 10 CFR Part 1022, and include the assessment in the EIS.

#### **Preliminary Identification of Environmental Issues**

DOE intends to address the issues listed below when considering the potential impacts resulting from the construction and operation of AEP's proposed project and any connected actions. This list is neither intended to be all-inclusive, nor to be a predetermined set of potential impacts. DOE invites comments on whether this is the correct list of important issues that should be considered in the EIS. *The preliminary list of potentially affected resources or activities and their related environmental issues includes:*

- *Air quality resources:* Potential air quality impacts from emissions during construction and operation of the CCS facilities and appurtenant facilities on local sensitive receptors, local environmental conditions, and special-

use areas, including impacts to smog and haze and impacts from dust and any significant vapor plumes, including greenhouse gas emissions;

- *Water resources:* Potential impacts from water utilization and consumption, plus potential impacts from wastewater discharges;

- *Infrastructure and land use:* Potential environmental and socioeconomic impacts associated with the project, including delivery of feed materials and distribution of products (*e.g.*, access roads, pipelines);

- *Visual resources:* Potential impacts to the view shed, scenic views (*e.g.*, impacts from the injection wells, pipelines, and support facilities for the injection wells and pipelines), and internal and external perception of the community or locality;

- *Solid wastes:* Pollution prevention and waste management issues (generation, treatment, transport, storage, disposal or use), including potential impacts from the generation, treatment, storage, and management of hazardous materials and other solid wastes;

- *Ecological resources:* Potential on-site and off-site impacts to vegetation, wildlife, threatened or endangered species, and ecologically sensitive habitats;

- *Floodplains and wetlands:* Potential wetland and floodplain impacts from construction of project facilities, pipelines and other facilities;

- *Traffic:* Potential impacts from the construction and operation of the facilities, including changes in local traffic patterns, deterioration of roads, traffic hazards, and traffic controls;

- *Historic and cultural resources:* Potential impacts related to site development and the associated linear facilities (pipelines, etc.);

- *Geology:* Potential impacts from the injection and storage of CO<sub>2</sub> on underground resources such as ground water supplies, mineral resources, and fossil fuel resources;

- Fate and stability of CO<sub>2</sub> being sequestered;

- *Health and safety issues:* Potential impacts associated with use, transport, and storage of hazardous chemicals (including ammonia), and CO<sub>2</sub> capture and transport to the sequestration site(s);

- Socioeconomic impacts, including the creation of jobs;

- Disproportionate adverse impacts on minority and low-income populations;

- *Noise and light:* Potential impacts from construction, transportation of materials, and facility operations;

- *Connected actions*: Potential development of support facilities or supporting infrastructure;
- Cumulative effects that result from the incremental impacts of the proposed project when added to other past, present, and reasonably foreseeable future projects;
- Compliance with regulatory and environmental permitting requirements; and
- Environmental monitoring plans associated with the carbon capture facility and CO<sub>2</sub> sequestration activities.

### Public Scoping Process

This Notice of Intent initiates the scoping process under NEPA, which will guide the development of the Draft EIS. To ensure identification of issues related to DOE's Proposed Action and AEP's Proposed Project, DOE seeks public input to define the scope of the EIS. The public scoping period will end 30 days after publication of this NOI in the **Federal Register**. Interested government agencies, private-sector organizations and individuals are encouraged to submit comments or suggestions concerning the content of the EIS, issues and impacts that should be addressed, and alternatives that should be considered. Scoping comments should clearly describe specific issues or topics that the EIS should address. Written, e-mailed, or faxed comments should be received by Friday, July 9, 2010 (*see ADDRESSES*).

DOE will conduct a public scoping meeting at the New Haven Elementary School at 138 Mill Street in New Haven, West Virginia, on Tuesday, June 22, 2010. Oral comments will be heard during the formal portion of the scoping meeting beginning at 7 p.m. The public is also invited to learn more about the project at an informal session at this location beginning at 5 p.m. DOE requests that anyone who wishes to speak at this public scoping meeting should contact Mr. Mark Lusk, either by phone, e-mail, fax, or postal mail (*see ADDRESSES*).

Those who do not arrange in advance to speak may register at the meeting (preferably at the beginning of the meeting) and may be given an opportunity to speak after previously scheduled speakers. Speakers will be given approximately five minutes to present their comments. Those speakers who want more than five minutes should indicate the length of time desired in their request. Depending on the number of speakers, DOE may need to limit all speakers to five minutes initially and provide second opportunities as time permits. Individuals may also provide written

materials in lieu of, or supplemental to, their presentations. Oral and written comments will be given equal consideration.

DOE will begin the formal meeting with an overview of AEP's proposed project. The meeting will not be conducted as an evidentiary hearing, and speakers will not be cross-examined. However, speakers may be asked questions to help ensure that DOE fully understands the comments or suggestions. A presiding officer will establish the order of speakers and provide any additional procedures necessary to conduct the meeting. A stenographer will record the proceedings, including all oral comments received.

Issued in Washington, DC, this 2nd day of June 2010.

**James J. Markowsky,**

*Assistant Secretary, Office of Fossil Energy.*

[FR Doc. 2010-13568 Filed 6-4-10; 8:45 am]

BILLING CODE 6450-01-P

## DEPARTMENT OF ENERGY

### Office of Energy Efficiency and Renewable Energy

[Case No. RF-013]

#### Energy Conservation Program for Consumer Products: Decision and Order Granting a Waiver to Haier From the Department of Energy Residential Refrigerator and Refrigerator-Freezer Test Procedure

**AGENCY:** Office of Energy Efficiency and Renewable Energy, Department of Energy.

**ACTION:** Decision and Order.

**SUMMARY:** The U.S. Department of Energy (DOE) gives notice of the decision and order (Case No. RF-013) that grants to Haier Group and Haier America Trading, L.L.C. (Haier) a waiver from the DOE electric refrigerator and refrigerator-freezer test procedure for certain basic models containing relative humidity sensors and adaptive control anti-sweat heaters. Under today's decision and order, Haier shall be required to test and rate its refrigerator-freezers with adaptive control anti-sweat heaters using an alternate test procedure that takes this technology into account when measuring energy consumption.

**DATES:** This Decision and Order is effective June 7, 2010.

**FOR FURTHER INFORMATION CONTACT:** Dr. Michael G. Raymond, U.S. Department of Energy, Building Technologies Program, Mailstop EE-2J, 1000

Independence Avenue, SW., Washington, DC 20585-0121. Telephone: (202) 586-9611, E-mail: *Michael.Raymond@ee.doe.gov*.

Jennifer Tiedeman, U.S. Department of Energy, Office of the General Counsel, Mail Stop GC-71, 1000 Independence Avenue, SW., Washington, DC 20585-0103, (202) 287-6111, E-mail: *Jennifer.Tiedeman@hq.doe.govmailto:.*

**SUPPLEMENTARY INFORMATION:** In accordance with Title 10 of the Code of Federal Regulations (10 CFR) 430.27(l), DOE gives notice of the issuance of its decision and order as set forth below. The decision and order grants Haier a waiver from the applicable residential refrigerator and refrigerator-freezer test procedures in 10 CFR part 430, subpart B, appendix A1 for certain basic models of refrigerator-freezers with relative humidity sensors and adaptive control anti-sweat heaters, provided that Haier tests and rates such products using the alternate test procedure described in this notice. Today's decision prohibits Haier from making representations concerning the energy efficiency of these products unless the product has been tested consistent with the provisions and restrictions in the alternate test procedure set forth in the decision and order below, and the representations fairly disclose the test results. Distributors, retailers, and private labelers are held to the same standard when making representations regarding the energy efficiency of these products. 42 U.S.C. 6293(c).

Issued in Washington, DC, on May 27, 2010.

**Cathy Zoi,**

*Assistant Secretary, Energy Efficiency and Renewable Energy.*

### Decision and Order

*In the Matter of:* Haier Group and Haier America Trading, L.L.C. (Case No. RF-013).

#### Background

Title III of the Energy Policy and Conservation Act (EPCA) sets forth a variety of provisions concerning energy efficiency, including Part A, which provides for the "Energy Conservation Program for Consumer Products Other Than Automobiles." 42 U.S.C. 6291-6309. Part A of Title III includes definitions, test procedures, labeling provisions, energy conservation standards, and the authority to require information and reports from manufacturers. Further, EPCA authorizes the Secretary of Energy to prescribe test procedures that are reasonably designed to produce results that measure energy efficiency, energy

INTENTIONALLY LEFT BLANK

APPENDIX B  
SCOPING DISTRIBUTION LIST

INTENTIONALLY LEFT BLANK

## **U.S. Senators**

Senator Robert C. Byrd  
311 Hart Senate Office Building  
Washington, DC 20510

Senator John D. Rockefeller, IV  
531 Hart Senate Office Building  
Washington, DC 20510

## **U.S. Representatives**

U.S. Representative Shelley Moore Capitol  
U.S. Representative, Congressional District 2  
1431 Longworth House Office Building  
Washington, DC 20515

## **West Virginia Governor**

Governor Joe Manchin, III  
1900 Kanawha Boulevard, East  
Charleston, WV 25305

## **Local Representatives**

Mr. Sam Anderson  
Mayor  
Hartford  
19<sup>th</sup> Front Street  
Harford, WV 25247

Mr. Thomas Anderson  
Commissioner  
Meigs County Commission  
100 East Second Street  
Pomeroy, OH 45769

Mr. Bob Baird  
County Commissioner  
Mason County Commission  
200 6th Street  
Pt. Pleasant, WV 25550

Mr. Michael Bartrum  
Commissioner  
Meigs County Commission  
100 East Second Street  
Pomeroy, OH 45769

Mr. Mick Davenport  
Commissioner  
Meigs County Commission  
100 East Second Street  
Pomeroy, OH 45769

Mr. James Elias  
Town Council, New Haven  
P.O. Box 217  
New Haven, WV 25265

Mr. Miles Epling  
County Commissioner  
Mason County Commission  
200 6th Street  
Pt. Pleasant, WV 25550

Ms. Sarah Gibbs  
Town Council, New Haven  
P.O. Box 217  
New Haven, WV 25265

Mr. Rick Handley  
County Commissioner  
Mason County Commission  
200 6<sup>th</sup> Street  
Pt. Pleasant, WV 25550

Mr. Julian Scott Hill  
Mayor  
Village of Racine  
405 Main Street  
P.O. Box 399  
Racine, OH 45771

Mr. John Musser  
Mayor  
Village of Pomeroy  
320 East Main Street  
Pomeroy, OH 45769

Ms. Dorothy Roush  
Town Council, New Haven  
P.O. Box 217  
New Haven, WV 25265

Mr. Jeff Russell  
Town Council, New Haven  
P.O. Box 217  
New Haven, WV 25265

Mr. Francis Taylor  
Town Council, New Haven  
P.O. Box 217  
New Haven, WV 25265

Mr. Ronald Zerkle  
Mayor, New Haven  
P.O. Box 217  
New Haven, WV 25265

**Tribal Government/Nations**

Mr. Warren C. Swartz, Jr., President  
Keweenaw Bay Indian Community  
16429 Beartown Road  
Baraga, MI 49908

Mr. Gary E. Mitchell, Chairperson  
Prairie Band Potawatomi Nation  
14880 K Road  
Mayetta, KS 66509

Mr. Jerry L. Douglas, Chief  
Delaware Tribe of Indians  
170 NE Barbara  
Bartlesville, OK 74003

**Federal, State, Local Agencies and Interested Parties**

Ms. Susan Pierce  
Deputy State Historic Preservation Officer  
West Virginia Division of Culture and History  
The Cultural Center, Capitol Complex  
1900 Kanawha Boulevard East  
Charleston, WV 25305-0300

Ms. Kelly A. Bragg  
Program Coordinator  
West Virginia Division of Energy  
1900 Kanawha Boulevard  
Building #6, Room 645 Charleston, WV  
25305

Mr. Michael T. Chezick  
Regional Environmental Officer  
U.S. Department of the Interior  
Custom House, Room 244  
200 Chestnut Street  
Philadelphia, PA 19106

Ms. Barbara Rudnick  
NEPA Program Team Leader  
U.S. Environmental Protection Agency,  
Region 3  
1650 Arch Street, 3EA30  
Philadelphia, PA 19103

Ms. Barbara Sargent  
West Virginia Division of Natural Resources  
Natural Heritage Program  
PO Box 67 Ward Road  
Elkins, WV 26241

Ms. Barbara Douglas  
U.S. Fish and Wildlife Service  
West Virginia Field Office  
Ecological Services  
694 Beverly Pike  
Elkins, WV 26241

Ohio Historic Preservation Office  
1982 Velma Avenue  
Columbus, OH 43211-2453

Mr. Randy C. Huffman  
Cabinet Secretary  
West Virginia Department of Environmental Protection  
601 - 57th Street  
Charleston, WV 25304

Mr. Chris Korleski, Director  
Ohio Environmental Protection Agency  
50 West Town Street, Suite 700  
Columbus, OH 43215

APPENDIX C

SAMPLE SCOPING MEETING INVITATION LETTER

INTENTIONALLY LEFT BLANK



June 8, 2010

XXXX

XXXX[Insert Mailing Address]XXXX

XXXX

XXXX

**Re: DOE Invitation to Public Scoping Meeting on Proposed AEP Mountaineer CCS II Project, West Virginia**

**Dear [insert name]:**

The U.S. Department of Energy (DOE) recently issued a Notice of Intent (NOI) to prepare an Environmental Impact Statement (EIS) for the proposed action of providing financial assistance (up to \$334 million) for the construction and operation of a project proposed by the American Electric Power Service Corporation (AEP). DOE selected the project for a financial assistance award through a competitive process under the Clean Coal Power Initiative Program. The project would be funded through the American Recovery and Reinvestment Act of 2009, Public Law 111-5 (Recovery Act) to assist in the nation's economic recovery by creating manufacturing jobs in the United States in accordance with the objectives of the Recovery Act. AEP's Mountaineer Commercial Scale Carbon Capture and Storage Project (Mountaineer CCS II Project) would construct a commercial scale carbon dioxide capture and storage system at AEP's existing Mountaineer Power Plant and on other AEP properties and rights-of-way located near New Haven, in Mason County, West Virginia.

DOE is hosting a public scoping meeting to present an overview of the proposed project and to provide the public with an opportunity to comment and ask questions. The meeting will be held on:

**Tuesday, June 22, 2010**  
**5:00pm –7:00pm – Open House**  
**7:00pm–9:00pm - Formal Scoping Meeting**  
**at**  
**New Haven Elementary School**  
**138 Mill Street**  
**New Haven, West Virginia**

For additional information, to sign up to present comments at the meeting, or to provide comments by other means on the scope of the EIS, please contact: Mr. Mark Lusk, DOE Document Manager, by mail (National Energy Technology Laboratory [NETL], 3610 Collins Ferry Road, P.O. Box 880, MS B07, Morgantown, WV 26507-0880); telephone (412-386-7435 or toll-free 1-877-812-1569); electronic mail (Mountaineer.EIS0445@netl.doe.gov); or fax (304-285-4403). Additional project information is available at DOE-NETL's website at: <http://www.netl.doe.gov/publications/others/nepa/index.html>.

Thank you for your participation in this important decision-making process.

Sincerely,

A handwritten signature in black ink that reads "Mark Lusk". The signature is written in a cursive, flowing style.

Mark Lusk  
DOE Document Manager

APPENDIX D  
AFFIDAVITS OF PUBLICATION

INTENTIONALLY LEFT BLANK

# THE DAILY SENTINEL

## PROOF OF PUBLICATION

THE STATE OF OHIO

MEIGS COUNTY SS:

I CHARLENE HOEFLICH, GENERAL MANAGER

THE DAILY SENTINEL

Make solemn oath that notice of which the attached

is a true copy, was published in The Pomeroy Daily Sentinel,  
a newspaper printed in the Village of Pomeroy in said  
County of Meigs and of general circulation in said

County 2 (time's) beginning on

June 8 2010 and ending June 22 2010

Pam Caldwell

Pomeroy, Oh Oct 22 2010

Diane Kay Hill

Sworn to and subscribed before me this day

Printer's Fee \$ 272.40



OFFICIAL SEAL  
DIANE KAY HILL  
NOTARY PUBLIC - STATE OF OHIO  
MY COMMISSION EXPIRES 7-12-14  
RECORDED IN GALLIA COUNTY, OHIO

**DOE-NETL ANNOUNCES PUBLIC SCOPING MEETING**  
on Proposed AEP Mountaineer CCS II Project

The U.S. Department of Energy (DOE) recently issued a Notice of Intent to prepare an Environmental Impact Statement (EIS) for the proposed action of providing financial assistance (up to \$334 million) for the construction and operation of a project proposed by the American Electric Power Service Corporation (AEP). DOE selected the project for a financial assistance award through a competitive process under the Clean Coal Power Initiative Program. AEP's Mountaineer Commercial Scale Carbon Capture and Storage Project (Mountaineer CCS II Project) would construct a commercial scale carbon dioxide capture and storage system at AEP's existing Mountaineer Power Plant and on other AEP properties and rights-of-way located near New Haven, in Mason County, West Virginia.

DOE is hosting a public scoping meeting to present an overview of the proposed project and to provide the public with an opportunity to comment and ask questions. The meeting will be held on: Tuesday, June 22, 2010 • 5:00pm - 7:00pm - Open House 7:00pm - 9:00pm - Formal Scoping Meeting  
at: New Haven Elementary School  
138 Mill Street • New Haven, West Virginia

For additional information, to sign up to present comments at the meeting, or to provide comments by other means on the scope of the EIS, please contact: Mr. Mark Lusk, NEPA Document Manager, by mail (DOE-National Energy Technology Laboratory (NETL), 3610 Collins Ferry Road, P.O. Box 880, Morgantown, WV 26507-0880); telephone (412-386-7435 or toll-free 1-877-812-1569); electronic mail (Mountaineer.EIS0445@netl.doe.gov); or fax (304-285-4403). Additional project information is available at DOE-NETL's website at <http://www.netl.doe.gov/publications/others/nepa/index.html>.

# Gallipolis Daily Tribune

Gallipolis, Ohio

## PROOF OF PUBLICATION

The State of Ohio,

Gallia County, ss:

I, Pam Caldwell, Advertising Manager

Gallipolis Daily Tribune

Make Solemn Oath that notice, of which  
the attached is a true copy, was published  
in the Gallipolis Daily Tribune, a newspaper  
printed in the City of Gallipolis in said County  
of Gallia, and of general circulation in said  
County TWO time(s), beginning on

June 13, 2010 and ending June 20, 2010

Pam Caldwell

Gallipolis, OH Oct 22, 2010

Diane Kay Hill

Sworn to and subscribed before me this day.

Printers Fee \$382.80



OFFICIAL SEAL  
DIANE KAY HILL  
NOTARY PUBLIC - STATE OF OHIO  
MY COMMISSION EXPIRES 7-12-14  
RECORDED IN GALLIA COUNTY, OHIO

**DOE-NETL ANNOUNCES PUBLIC SCOPING MEETING**  
on Proposed AEP Mountaineer CCS II Project

The U.S. Department of Energy (DOE) recently issued a Notice of Intent to prepare an Environmental Impact Statement (EIS) for the proposed action of providing financial assistance (up to \$334 million) for the construction and operation of a project proposed by the American Electric Power Service Corporation (AEP). DOE selected the project for a financial assistance award through a competitive process under the Clean Coal Power Initiative Program. AEP's Mountaineer Commercial Scale Carbon Capture and Storage Project (Mountaineer CCS II Project) would construct a commercial-scale carbon dioxide capture and storage system at AEP's existing Mountaineer Power Plant and on other AEP properties and rights-of-way located near New Haven, in Mason County, West Virginia.

DOE is hosting a public scoping meeting to present an overview of the proposed project and to provide the public with an opportunity to comment and ask questions. The meeting will be held on **Tuesday, June 22, 2010 • 5:00pm - 7:00pm - Open House 7:00pm - 9:00pm - Formal Scoping Meeting** at **New Haven Elementary School** 138 Mill Street • New Haven, West Virginia

For additional information, to sign up to present comments at the meeting, or to provide comments by other means on the scope of the EIS, please contact: Mr. Mark Lusk, NEPA Document Manager, by mail (DOE-National Energy Technology Laboratory (NETL), 3610 Collins Ferry Road, P.O. Box 880, MS B07, Morgantown, WV 26507-0880); telephone (412-386-7435 or toll-free 1-877-812-1569); electronic mail (Mountaineer-EIS0445@netl.doe.gov); or fax (304-285-4403). Additional project information is available at DOE-NETL's website at <http://www.netl.doe.gov/publications/other/nepal/index.html>.

# Point Pleasant Register

Point Pleasant, WV

## PROOF OF PUBLICATION

The State of West Virginia,

Mason County, ss:

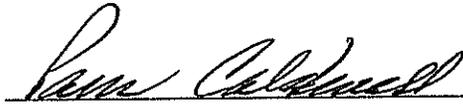
I, Pam Caldwell, Advertising Director,

Point Pleasant Register

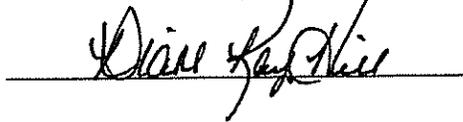
Make Solemn Oath that notice, of which  
the attached is a true copy, was published  
in the Point Pleasant Register, a newspaper  
published in the City of Point Pleasant, said County

of Mason, and of general circulation in said  
County TWO time(s), beginning on

June 8, 2010 and ending on June 22, 2010



Gallipolis, OH Oct 22, 2010



Sworn to and subscribed before me this day.

Printers Fee \$ 272.40



OFFICIAL SEAL  
DIANE KAY HILL  
NOTARY PUBLIC - STATE OF OHIO  
MY COMMISSION EXPIRES 7-12-14  
RECORDED IN GALLIA COUNTY, OHIO

**DOE-NETL Announces Public Scoping Meeting on Proposed AEP Mountaineer CCS II Project**

The U.S. Department of Energy (DOE) recently issued a Notice of Intent to prepare an Environmental Impact Statement (EIS) for the proposed action of providing financial assistance (up to \$334 million) for the construction and operation of a project proposed by the American Electric Power Service Corporation (AEP). DOE selected the project for a financial assistance award through a competitive process under the Clean Coal Power Initiative Program. AEP's Mountaineer Commercial Scale Carbon Capture and Storage Project (Mountaineer CCS II Project) would construct a commercial scale carbon dioxide capture and storage system at AEP's existing Mountaineer Power Plant and on other AEP properties and rights-of-way located near New Haven, in Mason County, West Virginia.

DOE is hosting a public scoping meeting to present an overview of the proposed project and to provide the public with an opportunity to comment and ask questions. The meeting will be held on: **Tuesday, June 22, 2010 • 5:00pm - 7:00pm - Open House 7:00pm - 9:00pm - Formal Scoping Meeting**  
at: **New Haven Elementary School**  
**138 Mill Street • New Haven, West Virginia**

For additional information, to sign up to present comments at the meeting, or to provide comments by other means on the scope of the EIS, please contact: **Mr. Mark Lusk, NEPA Document Manager, by mail (DOE-National Energy Technology Laboratory (NETL), 3610 Collins Ferry Road, P.O. Box 880, MS B07, Morgantown, WV 26507-0880); telephone (412-386-7435 or toll-free 1-877-812-1569); electronic mail (Mountaineer.EIS044@netl.doe.gov); or fax (304-285-4403). Additional project information is available at DOE-NETL's website at <http://www.netl.doe.gov/publications/others/nepa/index.html>.**

INTENTIONALLY LEFT BLANK

APPENDIX E  
PUBLIC SCOPING MEETING ATTENDEE LISTS

INTENTIONALLY LEFT BLANK



# SIGN-IN SHEET

AEP Mountaineer CCS II Project, Mason, WV  
New Haven Elementary School, New Haven, WV  
June 22, 2010



Name	Title	Address	Telephone	Fax	E-mail
<i>W. James Rouse</i>					
Ernst van Nierop	Dr. (Director of Engineering)		607-403-4638		ernst.vannierop@gmail.com
Tyson Taylor	Project Mgr	1038 26th Ave Denver, CO	720-383-3227		tysonstaylor@gmail.com
Charlie Powell	PH Mgr				
Bill Dousis		183 Lake Crest Rd TN <small>Conover, TN</small>			
MATT OGE		10728 FARAGAST HILLS BLVD KNOXVILLE TN	865-694-5888		
Tim Mallon		Charleston WV			
PHIL MOYE		P.O. BOX 1984 CHARLESTON	25327-1976		pmoye@aep.com
Robert Titus		P.O. Box 265 Pomeroy, Ohio	45269		rbt45169@yahoo.com
BOB MARTIN		2675 MORGANTOWN RD.	READING, PA 19603		ROBERT.MARTIN@NORLEPPREAS.COM
WILLIAM E. BIRD		P.O. BOX 603 New Haven	WV 25265		WILLIAM.FIGHTER@10TMAIL.COM
Brad Smith		Po Box 142 New Haven	WV 25265		brad@controlfresh.pro





# SIGN-IN SHEET

AEP Mountaineer CCS II Project, Mason, WV  
New Haven Elementary School, New Haven, WV  
June 22, 2010



Name	Title	Address	Telephone	Fax	E-mail
Michael VARNER		8913 LAUREL GROVE LN HARRISVILLE, TN	865-694-5897		
Millard W. Cherry					

INTENTIONALLY LEFT BLANK

APPENDIX F  
SCOPING MEETING TRANSCRIPT

INTENTIONALLY LEFT BLANK

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

AEP'S MOUNTAINEER CARBON CAPTURE AND SEQUESTRATION  
(CCS) II PROJECT AND THE NATIONAL ENVIRONMENTAL POLICY  
ACT

PUBLIC SCOPING MEETING  
TUESDAY, JUNE 22, 2010  
NEW HAVEN ELEMENTARY SCHOOL  
NEW HAVEN, WEST VIRGINIA  
7:00 P.M.

Job No. CS262741

1 MR. LUSK: My name is Mark Lusk. I'm  
2 with the Department of Energy, and this is our meeting,  
3 and we are here with our partner, AEP, Brian Sherrick,  
4 who is representing AEP, and will have some  
5 presentations for you, and Mike McMillian from the  
6 Department of Energy. Mike came all the way from  
7 Morgantown, and he'll also speak a little bit about the  
8 project and how we selected it.

9 The purpose of this meeting is -- this is what  
10 we call a public scoping meeting, and you are probably  
11 not familiar with the NEPA process, or the National  
12 Environmental Policy Act. Basically requires us to  
13 solicit public comment, and to do a review of a project  
14 before it goes forward. That's why we're here tonight,  
15 and that's to gather your comments. That's why we want  
16 you here, and we are hoping a few more people will show  
17 up, but we're certainly glad to have you here.

18 What is public scoping? Basically we're  
19 looking for your input on what the environmental impact  
20 statement, which we'll produce for this project, what  
21 we'll cover in that environmental statement. What are  
22 your concerns? What do you want to see addressed in  
23 the environmental impact statement?

24 We have a laundry list of issues that we think  
25 should be in there, but we want to know what you, you

1 know, the public and local people want to see in that  
2 document, what analyses need to be done, what issues  
3 need to be covered. And that will be -- make sure it's  
4 in there. We'll make sure we address those comments,  
5 and we'll produce that document.

6 And I'm going to go over a little bit in the  
7 presentation here shortly about what the process is,  
8 what the flow of the documents are, kind of the time  
9 line, and we'll have those slides in just a second.

10 But I guess for the record we should, you  
11 know, show that this meeting began at roughly 7:00 here  
12 on June 22nd, 2010. And we'll get the meeting started.

13 I want to make it clear that, you know, we're  
14 here to have -- give you an opportunity to speak, if  
15 you prefer to. If you don't want to speak to us in  
16 public, there is other ways to get comments to us.  
17 I've given a couple of you some comment forms. Please,  
18 if you have comments, send them to us in writing, and  
19 you can e-mail them. There is other information with  
20 my e-mail address.

21 Actually, it's not my e-mail address. It's  
22 separate from mine, but I'll be checking it. So those  
23 comments come straight to me, and I'll forward them to  
24 the contractor or any other folks that will be helping  
25 us develop this document.

1           The other ways you can give comments to me are  
2 you can write them to me to the address that we've  
3 given you. You can also fax them and it also comes  
4 directly to me. So you'll get our attention if you  
5 give comments.

6           Also on that form that I think I handed out to  
7 a couple of ladies here, you can also request copies of  
8 the document. It will come out -- you can request it  
9 either in hard copy, or hard copy and a CD, or just a  
10 CD if you prefer. When the draft EIS comes out here  
11 shortly, but in a few months we'll release that draft  
12 and that will be out for your comment again as well,  
13 and we'll have a whole another round of public meetings  
14 at that time to comment on the document itself.

15           So at this point we're really here to hear  
16 what your concerns are up front and help us put that  
17 document together.

18           Earlier we were able to talk to some of you  
19 informally and answer some of your questions. I thank  
20 you for coming here tonight to do that. It's nice to  
21 talk to people and hear their concerns face to face.

22           I guess we'll get started with the formal  
23 session now, and what we're going to do is have a  
24 couple presentations. Make sure I'm not skipping  
25 anything. We were going to give priority to the

1 elected officials, but I don't see any here. Is that  
2 still true?

3           So if you do want to speak, and I think we got  
4 one who signed up. If you want to speak at the end,  
5 we'll go one by one through that. If you want to come  
6 back up to say some more comments, or if you decide  
7 even though you are not signed up you do want to speak,  
8 we'll get you up there.

9           At the end of the presentation, I prefer you  
10 hold your questions at this point as we go through  
11 these next few presentations. At the end of our formal  
12 speaking part of this, we can revert back to the  
13 informal session and have questions answered by one on  
14 one if you prefer. So that may actually work out  
15 better.

16           At this time, I would like to get started on  
17 the presentations. The first person we have is Mike.  
18 Basically there is three participants at this meeting.  
19 We do have American Electric Power here. Brian is here  
20 representing. He'll discuss things with you. We have  
21 a number of their people here as well from various  
22 parts of the company, and some of the subcontractors  
23 who are actively involved in the project as well.

24           Of course, myself, and Mike from the  
25 Department of Energy, and Potomac-Hudson Engineering,

1 or PHE. They are preparing the environmental impact  
2 statement and supporting the AEP and the Department to  
3 this process. They are an experienced environmental  
4 firm that's been through this process before and will  
5 help walk us through this and produce a quality  
6 document.

7 Here is our agenda. We've been through the  
8 informal session already, and now we'll start the  
9 formal presentations.

10 MR. McMILLIAN: I would like to back up  
11 to this slide and make the point that -- as Mark  
12 mentioned --

13 (Told to speak up)

14 MR. McMILLIAN: -- because what we're  
15 here to do is to support this project and provide  
16 financial assistance to AEP. The reason we get  
17 involved and the DOE gets involved in these type of  
18 projects is that they are pointing in the development  
19 of technology that they are really not ready for  
20 commercialization. We want to be able to help them  
21 approve the technology to enable future employment.

22 The support that we're providing AEP comes  
23 through what we call our Clean Coal -- our Clean Coal  
24 Program. It's part of the daily program. It's been  
25 ongoing since the 1980s. The CCPI or Clean Coal Power

1 Initiative started in 2002.

2 DOE does a lot of work. This is just a very  
3 small part of the effort of the DOE. (Unintelligible)  
4 and even in the area of sequestration. This particular  
5 part is geared towards demonstration of technology, so  
6 we're looking at technologies that are much further  
7 along than the RD scale and so forth.

8 But CCPI has been around since 2002. The  
9 latest round of projects that were selected were geared  
10 primarily towards carbon capture and sequestration.  
11 This is an area that, you know, there is -- at present  
12 -- very little commercial incentive to do.

13 But we expect, you know, some day there may be  
14 an incentive -- a monetary incentive to either provide  
15 through government laws and regulations, or some manner  
16 that would force AEP or other entities to move in that  
17 direction.

18 So in the last few years we have had three  
19 rounds of CCPI. First round was back in 2002. We  
20 looked at projects from prior generations  
21 (unintelligible) efficient economics and environmental  
22 performance. Another round in 2005, I believe, 2004,  
23 2005. It was primarily geared towards mercury control  
24 and gasification technologies.

25 Latest round, round three, was implemented in

1 2009. 2008, 2009 time frame, and the second closing of  
2 that round, we selected the AEP project for funding.

3 As Mark said, at this point in time, you know,  
4 it's our intent to move forward with this project, but  
5 before we do that we have to make sure that the project  
6 doesn't harm the environment in any way that will be  
7 detrimental. So that's the reason. We're here.

8 The project itself, the target objectives for  
9 the program were to operate a target 90 percent capture  
10 efficiency for CO<sub>2</sub>, and to make progress towards  
11 reduction in costs of electricity for these  
12 applications down to about 35 percent of the existing  
13 cost of electricity.

14 Currently commercial systems, you know, for a  
15 retrofit system or (unintelligible) system like we are  
16 talking about here, we were looking at, you know, costs  
17 that can be up to 80 percent COE, cost of electricity.  
18 We're hoping to get down to 35 percent.

19 They also sequester at a rate of about 1.5  
20 million tons per year of CO<sub>2</sub>, and to (unintelligible)  
21 near the plant. As I said, the project was -- it was  
22 one of three selected in the second round, second  
23 closing. We actually made an award to AEP on February  
24 1st. So the project is just started. The total value  
25 of the project is 664 million dollars. We'll fund 50

1 percent of that, or 334 million dollars.

2 The funding for this project comes primarily  
3 from the recovery act that was implemented about a year  
4 ago by congress, and those funds expire on September  
5 30th, 2015.

6 MR. SHERRICK: As Mark discussed  
7 earlier, I'm Brian Sherrick. I'm the AEP project  
8 manager for this project, so I'm going to give you a  
9 brief overview of the project and the breakdown of the  
10 process and generalities, and here's the agenda I'll  
11 follow.

12 Okay. We are doing -- the purpose of the  
13 projects as Mike discussed earlier is to advance all  
14 systems of CO2 capture technology, which they call the  
15 CCS process. We are going to conduct the project with  
16 the Mountaineer Power Plant and other AEP owned  
17 properties in the local area.

18 We chose Mountaineer for a couple reasons.  
19 One, it already has a state of the art environmental  
20 control technology that's needed to clean up the gas  
21 for the CO2 capture technology. That's where any CO2  
22 capture technology is done.

23 And the second reason is that we've identified  
24 we have suitable geology in the area. This started  
25 with the 2003 Ohio River Valley project that was

1 sponsored by the Department of Energy. We drilled a  
2 9,200 foot characterization well, and that was the  
3 understanding that we had suitable saline geologic  
4 reservoirs to be able to conduct the injection.

5 We also have the operating test facility.  
6 It's a 20 megawatt scale facility that we're gathering  
7 data from now. So those are the two main reasons we  
8 chose Mountaineer for this project.

9 The preliminary costs as Mike mentioned, is  
10 668 million. DOE will fund 50 percent of those costs  
11 up to 334 million, and Mike already went through the  
12 objectives.

13 A lot of people ask us why AEP is conducting  
14 this project. There is some people that don't believe  
15 in global climate change. From our standpoint, it  
16 doesn't necessarily matter whether we agree with global  
17 climate changes. It appears it's eminent congress is  
18 going to pass some type of legislation that will  
19 regulate CO2 emissions, so we need to be able to  
20 address that legislation in consisting in coal burning  
21 power plants.

22 Right now the technologies available out there  
23 are not commercially feasible to apply on our existing  
24 fleet of coal fired power plants, so we feel the need  
25 to commercialize the technologies. And from our

1 standpoint, we believe this technology is the best  
2 potential to meet those goals.

3           Secondly, we need to keep coal in the mix,  
4 coal related jobs. Coal is an abundant resource of  
5 electricity in the United States, so we think we should  
6 maintain these affordable, reliable and clean supply of  
7 electricity.

8           Lastly, as Mike mentioned, we need to make  
9 sure we improve the efficiency of the CO2 technologies,  
10 and make them feasible on a commercial scale so we  
11 could have a series of projects when we are building up  
12 the technology, and this will be a step in that  
13 direction.

14           How does this benefit the community? One  
15 thing, you will have a cleaner environment, less CO2  
16 emissions during construction, and we'll have around  
17 800 construction jobs during the peak time period.  
18 Construction is scheduled to start in 2013 and then be  
19 operational in 2015 or end of 2014. Have around 30 to  
20 40 permanent operations and maintenance jobs on site.

21           During the construction period, especially in  
22 2014, there will be increased job opportunities for the  
23 local area, business opportunities and the local and  
24 widespread employment. This technology will help  
25 maintain mining jobs and other coal related jobs.

1           Time line right now, we're in the phase one.  
2 Project definition phase which should go through the  
3 end of June 2011. That's the initial engineering, some  
4 other activities I'll discuss in more detail here in a  
5 minute.

6           July 2011 we expect to move on to phase two  
7 which will be detailed engineering and permitting.  
8 That will give us the information we need to start  
9 construction which is scheduled to start beginning of  
10 2013. And, again, it's around a two and a half year  
11 time period, and then we'll have our start of emissions  
12 phase, and expect to be operational by September 2015.

13           We plan on operating the facility for 25 to 30  
14 years. The DOE will be part of that operations for the  
15 first four years.

16           Phase one of the NEPA process or National  
17 Environmental Policy Act process, by far the most  
18 important activity looking at the environmental and  
19 social impact of the project. Mark Lusk will go into a  
20 lot more detail in that in his presentation.

21           We plan on drilling two to three other  
22 geologic wells to study the geology in the area to make  
23 sure the geology is suitable for CO2 storage. We'll  
24 complete engineering -- initial engineering design and  
25 better define the projects to support the detailed

1 process estimate, and also to get ready for the phase  
2 two detail.

3 The detail process will be put together so we  
4 have a better understanding of our -- how accurate our  
5 current estimates are for the project costs.

6 I want to try to get through a simplified  
7 schematic of the chilled ammonia process. You can see  
8 up here in the upper left-hand corner, you have what  
9 the power plant is. We'll pull a portion of the stack  
10 gas through duct work in the outlet of the Flue Gas  
11 Desulphurization system which is used for SO2 control.  
12 See here. And then you have basically three stages of  
13 the ammonia process. First stage is the cooling and  
14 cleaning process that will decrease the temperature of  
15 the gas coming in, and that will decrease the volume of  
16 the gas we have to process, and it will enable the  
17 chemical reaction in the absorber.

18 The second stage is in the absorber section.  
19 We'll have ammonium carbonate as our reagent to absorb  
20 the CO2 and to form ammonium bicarbonate, and now  
21 cleaner gas will exit back to the discharge point.

22 Ammonium bicarbonate is sent to the third  
23 stage which is the CO2 regeneration. There we'll add  
24 steam, increase the temperature and pressure, drive the  
25 CO2 off, separate it, and then the ammonium carbonate

1 goes back the absorber for reuse.

2 The CO2 is a gas coming out of the  
3 regenerator. It's sent to a compressor where it'll  
4 increase the pressure and then change the gas from a  
5 fluid -- from a gas to a fluid and then the CO2  
6 (unintelligible) is sent to injection wells.

7 At the injection wells, we'll plan on having a  
8 couple different sites for injection wells  
9 (unintelligible) each site which I'll go over on the  
10 next slide.

11 Couple reasons we chose Alstom's ammonia  
12 process, we think it has the potential to be much more  
13 efficient in heating technology at the lower operating  
14 and maintenance cost, and a less impact on cost.

15 This gives you an overview of the plant CO2  
16 transport and storage section. Orient you to the map.  
17 This right here is the Mountaineer plant. There are  
18 four proposed injection sites that are shown.

19 You have the western site up here. Part of  
20 the Mountaineer plant landfill section we're not using  
21 as a proposed site for injection wells. You have your  
22 eastern site right here, and then the Jordan track site  
23 right here.

24 Those are the four sites we'll be evaluating  
25 during phase one of the project.

1           The pipelines, we plan on following the  
2 existing plant ropes, as you see here in red, for the  
3 transmission rights of ways as much as possible. If  
4 those two aren't feasible, then there a couple public  
5 roads that we may follow the rights of way to get to  
6 the injection sites.

7           To understand the geology -- and, again, we  
8 drilled a characterization well in 2003, which was a  
9 DOE sponsored project. It identified two feasible  
10 injection reservoirs Rose Run sandstone which is around  
11 7,800 feet deep, and the Copper Ridge B-zone which is  
12 around 8,200 feet deep.

13           So there is couple things you look for when  
14 you are doing these characterization wells. One is for  
15 fresh water, which in this case it's in the top 300  
16 feet up here.

17           You look for coal seams which are in this area  
18 around 200 to 400 feet below surface, and then you are  
19 looking for injection zones. You are looking for high  
20 porosity and permeability injection zones. Porosity is  
21 the space of the holes. And permeability is the  
22 connectivity between those holes so that the CO2 can  
23 spread through the formation.

24           Above those injection zones, you are looking  
25 far cap rock that has very low porosity and

1 permeability and that keeps the CO2 confined within the  
2 injection reservoirs. We also looked for -- if there  
3 is any gasses in this area. We did not see any.  
4 Usually they are in the 4,000 to 6,000 foot range, but  
5 there aren't any in this area.

6 Another thing you look at is how salty the  
7 water is within these injection reservoirs. In our  
8 case, we found that the salt in the water is about 10  
9 to 12 times saltier than ocean water. That tells you  
10 that that water is not being replenished by fresh  
11 water, and that the zone are isolated.

12 The other thing -- what we did find at  
13 Mountaineer is that in addition to the injection  
14 reservoirs, we have thousands of feet of cap rock.  
15 Generally if you look at the blues and greens on this  
16 picture, the gray area that's cap rock. So literally  
17 there is about a mile and a half of cap rock above the  
18 injection.

19 And then the last thing -- the last big thing  
20 you look for is if there is any faulting in this area.  
21 There is no significant faulting, so we did a very  
22 careful characterization of the site, and the  
23 characterization study took them about five years.  
24 That gave us information that we knew that this was  
25 good alternative for injections, so we did the test

1 validation project. So we gained lots of information  
2 out of that, and that will give us the knowledge to  
3 move forward on this commercial scale project.

4 So that concludes my presentation. I'll turn  
5 it over to Mark.

6 MR. LUSK: I'm going to go into a little  
7 bit more detail on the National Environmental Policy  
8 Act and how it applies to this project and the process  
9 we'll follow.

10 Basically, as I said before, it's a federal  
11 requirement that federal agencies have to do an  
12 environmental impact statement or some sort of  
13 environmental review for their major projects.

14 We determined that we need to do an  
15 environmental impact statement for this project because  
16 of the scope and nature of the project. I know it's a  
17 fairly big size project, filling pipelines 12 miles or  
18 so long. Potentially, you know, impacts to wet lands,  
19 the water resources, whatever. We need to look at  
20 those in a more comprehensive nature than say an  
21 environmental assessment which will be a much smaller  
22 document, take less time.

23 We call this NEPA mandate. We need to have  
24 high quality information, which AEP is providing to us  
25 and to the contractor to do the analyses which has been

1 to be accurate, has to have expert agencies comments.  
2 We'll ask other agencies to provide comment and  
3 consultation. We'll talk with (unintelligible).

4 We'll talk to the West Virginia DEP, DNR. We  
5 talked to the State Historic Preservation Office to  
6 determine whether it's a historic building, or  
7 archeological resources nearby that would be impacted.  
8 So we ask other agencies for their input as well.

9 But probably the most important to you is we  
10 need public involvement. This meeting, public scoping  
11 meeting, is our first step in that process. We are  
12 very early in the process.

13 We issued what we call a determination March  
14 8th that says that we would do a EIS for this project.  
15 And as you probably are aware, the notice of intent was  
16 published in the Federal Register on June 7th, and also  
17 there was an announcement in the local paper found, and  
18 it's probably how some of you found out we're having a  
19 meeting tonight.

20 There is a copy of the notice of intent in the  
21 back if you want to take a copy home with you. It's  
22 the original federal register announcement and has lots  
23 of project information. Also tells you how to comment  
24 -- provide your comments to me, and in various ways you  
25 can do that as I mentioned earlier, but I would

1 encourage you to take a copy of that with you.

2           Basically that notice of intent began the 30  
3 day public scoping period, which I think we actually  
4 ended up doing like 35 days, 31 or 2 days. It ends on  
5 July 9th of this year. And so if you have comments,  
6 please give them to me by that date, and we'll make  
7 sure they are used as we develop this document.

8           If you are not familiar with EIS, or  
9 environmental impact statement, these are the general  
10 pieces of that section of the document that we -- it's  
11 kind of a standard format we file. Why is the agency  
12 doing this action? We explained what the proposed  
13 action is, all the alternatives that are being  
14 considered, both technology alternatives in this case,  
15 and, you know, what other proposed project alternatives  
16 describe the effective environment, which is what is  
17 the environment now before the project?

18           How many people lived here? What's the social  
19 economics? Are there wetlands nearby? What are the  
20 current air emissions? What is the environmental  
21 context that we would potentially change or impact?

22           Then we analyze the various consequences or  
23 impacts that potentially could occur from the project.  
24 Of course, we'll have a list of people we've contacted,  
25 people that have commented, and respond to those

1 comments in the later versions of the document.

2 Just a general slide of the NEPA process. And  
3 the red line on the left is basically telling you we're  
4 here now very early in the process. This is the first  
5 opportunity for public involvement to help us scope the  
6 document.

7 Once the draft EIS is prepared and released to  
8 the public comment, you will have another chance to  
9 comment on the contents of the document itself. And  
10 we'll have another round of public meetings at that  
11 time. Probably right here in this same location.

12 At that point we'll then prepare the final  
13 EIS, and it will get, again, announced in the -- by a  
14 notice of availability in the federal register and be  
15 available for everyone to see. At that point you  
16 really aren't commenting on the document, but it's  
17 available for the public to look at.

18 And then we have to wait 30 days after that is  
19 issued to -- no sooner than that can we issue what we  
20 call the record of decision. The record of decision,  
21 basically, is the agency's decision, in this case, the  
22 Department of Energy, that says we will fund this  
23 project, and they can then start.

24 Remember Brian talking about doing this  
25 project in phases. Phase two won't start until the

1 record of decision is issued. And this is our  
2 anticipated schedule. Here we are, notice of intent  
3 began June 7th. We anticipate the draft EIS probably  
4 in December. This is the schedule we're working  
5 towards right now. It's a fairly aggressive schedule.

6 We've got a lot of information being passed  
7 between AEP and the subcontractors to PHE who is  
8 preparing the document, and, you know, we'll all add  
9 input to the document, but without our contractors, we  
10 wouldn't be producing it as quickly as we will. That's  
11 our basic schedule.

12 And at this point, we would invite, you know,  
13 the public to provide comments. Normally at this stage  
14 of the meeting, we had have people come up and provide  
15 comment, and I'll go over the rules for that in a  
16 minute if we have anybody that wants to provide any  
17 comments.

18 But just to remind you, the reason for the  
19 meeting is we want your input on what the scope of the  
20 EIS should be. What do you want in the document? What  
21 needs to be covered? There is a list back on the table  
22 of basically what I call a laundry list of what we see  
23 the issues we need to talk about, but we would like to  
24 have your comments as well, you know, what concerns  
25 you.

1           That includes, you know, issues to be  
2 addressed, EIS data that should be collected, analysis  
3 that we should perform, and just any general staple or  
4 concerns that you have.

5           And there is ways you can send me the  
6 comments. This is also in the notice of intent.  
7 They'll come straight to me. I'll make sure they get  
8 distributed and addressed as they need to be.

9           Keep in mind that Friday, July 9th is the  
10 close of the public comment period or the scoping  
11 period. So try to get those to us before that.

12           And if anybody wants to speak, we generally  
13 give people five minutes and we usually give electing  
14 officials first go, but I don't think we've identified  
15 anybody that's an elected official. So if anybody  
16 would like to speak, you can now if you want to.

17           I was to going make sure you spoke your name,  
18 and, you know, spoke clearly, but I don't know if we're  
19 going to have any speakers or not. I'll give you a  
20 couple minutes to think about it. I guess if we're not  
21 going to have any speakers, we can go back to having  
22 more of an informal session and talk about the posters,  
23 maybe even have --

24           Tell us your name.

25           MR. TITUS: My name is Robert Titus,

1 T-I-T-U-S. I'm a resident of Pomeroy, Ohio, and I'd  
2 just like to give a brief history lesson here this  
3 evening. History from my subjects in high school,  
4 college, and I brought along a couple informational  
5 items with me this evening.

6 One of them is an AEP employee manual from  
7 1948 that shows the layout of a coal fired power plant  
8 from that era, and basically the operating principles  
9 have stayed the same throughout the years. But if you  
10 take a closer look, you will notice that it doesn't  
11 have any sulphur dioxide (unintelligible). It doesn't  
12 have any nitrogen oxide, just like the (unintelligible)  
13 production systems. It doesn't have any electrostatic  
14 precipitators because those things just didn't exist  
15 back in those days.

16 And as time and technology evolved, it was  
17 recognized by the utility industry and by scientists  
18 that reduction in emissions from coal fired power  
19 plants need to be made. So in the last 40, 50 years,  
20 we've now seen (unintelligible) precipitators and  
21 sulphur dioxide scrubbers and nitrogen oxide  
22 (unintelligible) reduction systems put on coal fired  
23 power plants which have reduced a lot of pollution from  
24 these plants. And I think that carbon capture and  
25 storage technology represents another step forward in

1 reducing emissions from coal fired power plants.

2 I have a newspaper from the year 1959 that  
3 shows the Phillips Power Plant, and as you can tell  
4 from the picture, there is lot of soot coming out of  
5 those smoke stacks on units one through four. You  
6 won't see that nowadays because they put in  
7 electrostatic precipitators with reduced emissions, and  
8 they call unit five a giant unit. It's 450 megawatts.

9 60 years ago that was big, of course. Now,  
10 the Mountaineer unit is 1,300 megawatts. So as units  
11 got bigger, they have more emissions. So technology is  
12 evolving in helping to reduce emissions.

13 So what we learned here from Mountaineer may  
14 hopefully resolve in a carbon capture storage system  
15 that can be used not only in this country, but in other  
16 countries that use coal to make electricity. So I hope  
17 it's a success. Thank you.

18 MR. LUSK: Anybody else want to give us  
19 a comment?

20 Well I guess if we don't have any more oral  
21 comments -- do you have any questions that maybe we can  
22 answer?

23 SPEAKER NO. 1: One question I had was:  
24 Is there any form of the -- either of the AEP or the  
25 department of energy's presentations that are available

1 to us -- the Powerpoints, either a hard copy or an  
2 electronic copy?

3 MR. LUSK: I'm sure we can put them  
4 online or send them to you, whatever makes the most  
5 sense. I can put them on a location on our website,  
6 I'm sure.

7 SPEAKER NO. 1: Another question that I  
8 had, for the AEP standpoint, is will this project be  
9 still primarily, I guess, is the other project -- the  
10 smaller project has been to gather data and information  
11 for a period of time to study the effects, or will this  
12 -- is this project in itself to be commercially viable  
13 and continue to operate even once all the data is  
14 collected and we learn what we want to learn from it?

15 MR. McMILLIAN: We plan on operating the  
16 facility for 25 to 30 years, just like the other  
17 commercial facility. DOE will be a part of the project  
18 for those initial four years. As with any other  
19 technology, it will be evaluated. And most of it will  
20 probably depend on if for when the CO2 legislation is  
21 passed and what legislation says, but right now with  
22 the way it looks, some type of legislation is going to  
23 be passed, we plan on running it for 25 to 30 years.

24 SPEAKER NO. 1: I seen the startup  
25 dates, but I might have missed it, whether there was

1 any dates that showed, here is the duration of data  
2 collection you feel like you need to do before you can  
3 take any further steps, assuming maybe some legislation  
4 came along and you wanted to increase either at this  
5 plant or another site, you know, the carbon capture  
6 percentage.

7 Will you learn what you need to learn in a  
8 year, in three years?

9 MR. McMILLIAN: It's probably going to  
10 be the one to two-year time frame what we learn what we  
11 need to know before we proceed in developing either a  
12 bigger Mountaineer or other locations.

13 MR. LUSK: Any other questions or  
14 official comments?

15 SPEAKER NO. 1: I'll ask one further  
16 question. And I talked with the geologist briefly.

17 I would be curious to know -- and it may have  
18 already been studied, but whether there is any sort of  
19 connection between, you know, the (unintelligible) and  
20 the local salt lines in our area?

21 MR. McMILLIAN: How deep do those lines  
22 go?

23 SPEAKER NO. 1: I have no idea. Our  
24 historian may know. But I have no idea.

25 MR. LUSK: Where is the salt mine?

1                   SPEAKER NO. 1: About, what, a few miles  
2 down river from here, at Pomeroy.

3                   MR. LUSK: Both sides of the river?

4                   SPEAKER NO. 1: Yes.

5                   SPEAKER NO. 2: They are wells.

6                   MR. LUSK: Okay. (Unintelligible). Any  
7 other questions?

8                   I guess we can officially end the formal  
9 meeting. I think we're done with the formal session.

10                   (Adjourned at 7:39 p.m.)

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25

CERTIFICATE OF COURT REPORTER

I, Jaime L. Thompson, a Registered Professional Reporter and a Notary Public in and for the State of West Virginia, do hereby certify that the foregoing public hearing was duly taken by me.

I further certify that the said public hearing was correctly taken by me in Stenotype and that the same was reduced to computer print by me to the best of my ability.

I further certify that I am neither attorney or counsel for, not related to or employed by, any of the parties to the action in which the public hearing is taken and further that I am not a relative or employee or an attorney or counsel employed by the parties hereto or financially interested in the action.

Given under my hand this 28th day of June 2010.

\_\_\_\_\_  
Jaime L. Thompson, RPR  
Notary Public

<b>1</b>	<b>4</b>	<b>activity</b> 12:18 <b>add</b> 13:23 21:8 <b>addition</b> 16:13 <b>address</b> 3:4,20,21 4:2 10:20 <b>addressed</b> 2:22 22:2 22:8 <b>adjourned</b> 27:10 <b>advance</b> 9:13 <b>aep</b> 2:3,4 6:2,16,22 7:16 8:2,23 9:7,16 10:13 17:24 21:7 23:6 24:24 25:8 <b>aep's</b> 1:4 <b>affordable</b> 11:6 <b>agencies</b> 17:11 18:1 18:2,8 <b>agency</b> 19:11 <b>agency's</b> 20:21 <b>agenda</b> 6:7 9:10 <b>aggressive</b> 21:5 <b>ago</b> 9:4 24:9 <b>agree</b> 10:16 <b>air</b> 19:20 <b>alstom's</b> 14:11 <b>alternative</b> 16:25 <b>alternatives</b> 19:13 19:14,15 <b>american</b> 5:19 <b>ammonia</b> 13:7,13 14:11 <b>ammonium</b> 13:19 13:20,22,25 <b>analyses</b> 3:2 17:25 <b>analysis</b> 22:2 <b>analyze</b> 19:22 <b>announced</b> 20:13 <b>announcement</b> 18:17,22 <b>answer</b> 4:19 24:22 <b>answered</b> 5:13 <b>anticipate</b> 21:3 <b>anticipated</b> 21:2 <b>anybody</b> 21:16 22:12,15,15 24:18	<b>appears</b> 10:17 <b>applications</b> 8:12 <b>applies</b> 17:8 <b>apply</b> 10:23 <b>approve</b> 6:21 <b>archeological</b> 18:7 <b>area</b> 7:4,11 9:17,24 11:23 12:22 15:17 16:3,5,16,20 26:20 <b>art</b> 9:19 <b>assessment</b> 17:21 <b>assistance</b> 6:16 <b>assuming</b> 26:3 <b>attention</b> 4:4 <b>attorney</b> 28:11,15 <b>availability</b> 20:14 <b>available</b> 10:22 20:15,17 24:25 <b>award</b> 8:23 <b>aware</b> 18:15
<b>2</b>	<b>5</b>	<b>b</b>	
<b>1</b> 24:23 25:7,24 26:15,23 27:1,4 <b>1,300</b> 24:10 <b>1.5</b> 8:19 <b>10</b> 16:8 <b>12</b> 16:9 17:17 <b>1948</b> 23:7 <b>1959</b> 24:2 <b>1980s</b> 6:25 <b>1st</b> 8:24	<b>4,000</b> 16:4 <b>40</b> 11:20 23:19 <b>400</b> 15:18 <b>450</b> 24:8	<b>back</b> 5:6,12 6:10 7:19 13:21 14:1 18:21 21:21 22:21 23:15 <b>basic</b> 21:11 <b>basically</b> 2:12,18 5:18 13:12 17:10 19:2 20:3,21 21:22 23:8 <b>began</b> 3:11 19:2 21:3 <b>beginning</b> 12:9 <b>believe</b> 7:22 10:14 11:1 <b>benefit</b> 11:14 <b>best</b> 11:1 28:9 <b>better</b> 5:15 12:25 13:4 <b>bicarbonate</b> 13:20 13:22 <b>big</b> 16:19 17:17 24:9 <b>bigger</b> 24:11 26:12	
<b>3</b>	<b>6</b>		
<b>2</b> 19:4 27:5 <b>20</b> 10:6 <b>200</b> 15:18 <b>2002</b> 7:1,8,19 <b>2003</b> 9:25 15:8 <b>2004</b> 7:22 <b>2005</b> 7:22,23 <b>2008</b> 8:1 <b>2009</b> 8:1,1 <b>2010</b> 1:11 3:12 28:18 <b>2011</b> 12:3,6 <b>2013</b> 11:18 12:10 <b>2014</b> 11:19,22 <b>2015</b> 9:5 11:19 12:12 <b>22</b> 1:11 <b>22nd</b> 3:12 <b>25</b> 12:13 25:16,23 <b>28th</b> 28:17	<b>7</b>		
<b>30</b> 11:19 12:13 19:2 20:18 25:16,23 <b>300</b> 15:15 <b>30th</b> 9:5 <b>31</b> 19:4 <b>334</b> 9:1 10:11 <b>35</b> 8:12,18 19:4	<b>8</b>		
	<b>9</b>		
	<b>a</b>		
	<b>7,800</b> 15:11 <b>7:00</b> 1:14 3:11 <b>7:39</b> 27:10 <b>7th</b> 18:16 21:3		
	<b>8,200</b> 15:12 <b>80</b> 8:17 <b>800</b> 11:17 <b>8th</b> 18:14		
	<b>9,200</b> 10:2 <b>90</b> 8:9 <b>9th</b> 19:5 22:9		
	<b>ability</b> 28:10 <b>able</b> 4:18 6:20 10:4 10:19 <b>absorb</b> 13:19 <b>absorber</b> 13:17,18 14:1 <b>abundant</b> 11:4 <b>accurate</b> 13:4 18:1 <b>act</b> 1:6 2:12 9:3 12:17 17:8 <b>action</b> 19:12,13 28:13,16 <b>actively</b> 5:23 <b>activities</b> 12:4		

<p><b>bit</b> 2:7 3:6 17:7  <b>blues</b> 16:15  <b>breakdown</b> 9:9  <b>brian</b> 2:3 5:19 9:7 20:24  <b>brief</b> 9:9 23:2  <b>briefly</b> 26:16  <b>brought</b> 23:4  <b>building</b> 11:11 18:6  <b>burning</b> 10:20  <b>business</b> 11:23</p>	<p><b>clean</b> 6:23,23,25 9:20 11:6  <b>cleaner</b> 11:15 13:21  <b>cleaning</b> 13:14  <b>clear</b> 3:13  <b>clearly</b> 22:18  <b>climate</b> 10:15,17  <b>close</b> 22:10  <b>closer</b> 23:10  <b>closing</b> 8:1,23  <b>co2</b> 8:10,20 9:14,21 9:21 10:19 11:9,15 12:23 13:20,23,25 14:2,5,15 15:22 16:1 25:20  <b>coal</b> 6:23,23,25 10:20,24 11:3,4,4 11:25 15:17 23:7,18 23:22 24:1,16  <b>coe</b> 8:17  <b>collected</b> 22:2 25:14  <b>collection</b> 26:2  <b>college</b> 23:4  <b>coming</b> 4:20 13:15 14:2 24:4  <b>comment</b> 2:13 3:17 4:12,14 18:2,23 20:8,9 21:15 22:10 24:19  <b>commented</b> 19:25  <b>commenting</b> 20:16  <b>comments</b> 2:15 3:4 3:16,18,23 4:1,5 5:6 18:1,24 19:5 20:1 21:13,17,24 22:6 24:21 26:14  <b>commercial</b> 7:12 8:14 11:10 17:3 25:17  <b>commercialization</b> 6:20  <b>commercialize</b> 10:25  <b>commercially</b> 10:23 25:12</p>	<p><b>community</b> 11:14  <b>company</b> 5:22  <b>complete</b> 12:24  <b>comprehensive</b> 17:20  <b>compressor</b> 14:3  <b>computer</b> 28:9  <b>concerns</b> 2:22 4:16 4:21 21:24 22:4  <b>concludes</b> 17:4  <b>conduct</b> 9:15 10:4  <b>conducting</b> 10:13  <b>confined</b> 16:1  <b>congress</b> 9:4 10:17  <b>connection</b> 26:19  <b>connectivity</b> 15:22  <b>consequences</b> 19:22  <b>considered</b> 19:14  <b>consisting</b> 10:20  <b>construction</b> 11:16 11:17,18,21 12:9  <b>consultation</b> 18:3  <b>contacted</b> 19:24  <b>contents</b> 20:9  <b>context</b> 19:21  <b>continue</b> 25:13  <b>contractor</b> 3:24 17:25  <b>contractors</b> 21:9  <b>control</b> 7:23 9:20 13:11  <b>cooling</b> 13:13  <b>copies</b> 4:7  <b>copper</b> 15:11  <b>copy</b> 4:9,9 18:20,21 19:1 25:1,2  <b>corner</b> 13:8  <b>correctly</b> 28:8  <b>cost</b> 8:13,17 14:14 14:14  <b>costs</b> 8:11,16 10:9 10:10 13:5  <b>counsel</b> 28:12,15  <b>countries</b> 24:16</p>	<p><b>country</b> 24:15  <b>couple</b> 3:17 4:7,24 9:18 14:8,11 15:4 15:13 22:20 23:4  <b>course</b> 5:24 19:24 24:9  <b>court</b> 28:1  <b>cover</b> 2:21  <b>covered</b> 3:3 21:21  <b>cs262741</b> 1:25  <b>curious</b> 26:17  <b>current</b> 13:5 19:20  <b>currently</b> 8:14</p>
<p><b>c</b></p>			
<p><b>call</b> 2:10 6:23 9:14 17:23 18:13 20:20 21:22 24:8  <b>cap</b> 15:25 16:14,16 16:17  <b>capture</b> 1:4 7:10 8:9 9:14,21,22 23:24 24:14 26:5  <b>carbon</b> 1:4 7:10 23:24 24:14 26:5  <b>carbonate</b> 13:19,25  <b>careful</b> 16:22  <b>case</b> 15:15 16:8 19:14 20:21  <b>ccpi</b> 6:25 7:8,19  <b>ccs</b> 1:5 9:15  <b>cd</b> 4:9,10  <b>certainly</b> 2:17  <b>certificate</b> 28:1  <b>certify</b> 28:5,7,11  <b>chance</b> 20:8  <b>change</b> 10:15 14:4 19:21  <b>changes</b> 10:17  <b>characterization</b> 10:2 15:8,14 16:22 16:23  <b>checking</b> 3:22  <b>chemical</b> 13:17  <b>chilled</b> 13:7  <b>chose</b> 9:18 10:8 14:11</p>			<p><b>d</b></p> <p><b>daily</b> 6:24  <b>data</b> 10:7 22:2 25:10 25:13 26:1  <b>date</b> 19:6  <b>dates</b> 25:25 26:1  <b>day</b> 7:13 19:3 28:17  <b>days</b> 19:4,4 20:18 23:15  <b>december</b> 21:4  <b>decide</b> 5:6  <b>decision</b> 20:20,20,21 21:1  <b>decrease</b> 13:14,15  <b>deep</b> 15:11,12 26:21  <b>define</b> 12:25  <b>definition</b> 12:2  <b>demonstration</b> 7:5  <b>dep</b> 18:4  <b>department</b> 2:2,6 5:25 6:2 10:1 20:22 24:25  <b>depend</b> 25:20  <b>describe</b> 19:16  <b>design</b> 12:24  <b>desulphurization</b> 13:11  <b>detail</b> 12:4,20 13:2,3 17:7  <b>detailed</b> 12:7,25</p>

<p><b>determination</b> 18:13  <b>determine</b> 18:6  <b>determined</b> 17:14  <b>detrimental</b> 8:7  <b>develop</b> 3:25 19:7  <b>developing</b> 26:11  <b>development</b> 6:18  <b>different</b> 14:8  <b>dioxide</b> 23:11,21  <b>direction</b> 7:17 11:13  <b>directly</b> 4:4  <b>discharge</b> 13:21  <b>discuss</b> 5:20 12:4  <b>discussed</b> 9:6,13  <b>distributed</b> 22:8  <b>dnr</b> 18:4  <b>document</b> 3:2,5,25 4:8,14,17 6:6 17:22 19:7,10 20:1,6,9,16 21:8,9,20  <b>documents</b> 3:8  <b>doe</b> 6:17 7:2,3 10:10 12:14 15:9 25:17  <b>doing</b> 9:12 15:14 19:4,12 20:24  <b>dollars</b> 8:25 9:1  <b>draft</b> 4:10,11 20:7 21:3  <b>drilled</b> 10:1 15:8  <b>drilling</b> 12:21  <b>drive</b> 13:24  <b>duct</b> 13:10  <b>duly</b> 28:6  <b>duration</b> 26:1</p>	<p><b>effects</b> 25:11  <b>efficiency</b> 8:10 11:9  <b>efficient</b> 7:21 14:13  <b>effort</b> 7:3  <b>eis</b> 4:10 18:14 19:8 20:7,13 21:3,20 22:2  <b>either</b> 4:9 7:14 24:24 25:1 26:4,11  <b>elected</b> 5:1 22:15  <b>electing</b> 22:13  <b>electric</b> 5:19  <b>electricity</b> 8:11,13 8:17 11:5,7 24:16  <b>electronic</b> 25:2  <b>electrostatic</b> 23:13 24:7  <b>elementary</b> 1:12  <b>eminent</b> 10:17  <b>emissions</b> 10:19 11:16 12:11 19:20 23:18 24:1,7,11,12  <b>employed</b> 28:12,15  <b>employee</b> 23:6 28:15  <b>employment</b> 6:21 11:24  <b>enable</b> 6:21 13:16  <b>encourage</b> 19:1  <b>ended</b> 19:4  <b>ends</b> 19:4  <b>energy</b> 2:2,6 5:25 10:1 20:22  <b>energy's</b> 24:25  <b>engineering</b> 5:25 12:3,7,24,24  <b>entities</b> 7:16  <b>environment</b> 8:6 11:15 19:16,17  <b>environmental</b> 1:5 2:12,19,21,23 6:1,3 7:21 9:19 12:17,18 17:7,12,13,15,21 19:9,20</p>	<p><b>era</b> 23:8  <b>especially</b> 11:21  <b>estimate</b> 13:1  <b>estimates</b> 13:5  <b>evaluated</b> 25:19  <b>evaluating</b> 14:24  <b>evening</b> 23:3,5  <b>evolved</b> 23:16  <b>evolving</b> 24:12  <b>exist</b> 23:14  <b>existing</b> 8:12 10:23 15:2  <b>exit</b> 13:21  <b>expect</b> 7:13 12:6,12  <b>experienced</b> 6:3  <b>expert</b> 18:1  <b>expire</b> 9:4  <b>explained</b> 19:12</p>	<p><b>firm</b> 6:4  <b>first</b> 5:17 7:19 12:15 13:13 18:11 20:4 22:14  <b>five</b> 16:23 22:13 24:8  <b>fleet</b> 10:24  <b>flow</b> 3:8  <b>flue</b> 13:10  <b>fluid</b> 14:5,5  <b>folks</b> 3:24  <b>follow</b> 9:11 15:5 17:9  <b>following</b> 15:1  <b>foot</b> 10:2 16:4  <b>force</b> 7:16  <b>foregoing</b> 28:6  <b>form</b> 4:6 13:20 24:24  <b>formal</b> 4:22 5:11 6:9 27:8,9  <b>format</b> 19:11  <b>formation</b> 15:23  <b>forms</b> 3:17  <b>forth</b> 7:7  <b>forward</b> 2:14 3:23 8:4 17:3 23:25  <b>found</b> 16:8 18:17,18  <b>four</b> 12:15 14:18,24 24:5 25:18  <b>frame</b> 8:1 26:10  <b>fresh</b> 15:15 16:10  <b>friday</b> 22:9  <b>front</b> 4:16  <b>fund</b> 8:25 10:10 20:22  <b>funding</b> 8:2 9:2  <b>funds</b> 9:4  <b>further</b> 7:6 26:3,15 28:7,11,14  <b>future</b> 6:21</p>
<p><b>e</b></p>		<p><b>f</b></p>	
<p><b>earlier</b> 4:18 9:7,13 18:25  <b>early</b> 18:12 20:4  <b>eastern</b> 14:22  <b>economics</b> 7:21 19:19  <b>effective</b> 19:16</p>		<p><b>face</b> 4:21,21  <b>facility</b> 10:5,6 12:13 25:16,17  <b>fairly</b> 17:17 21:5  <b>familiar</b> 2:11 19:8  <b>far</b> 12:17 15:25  <b>faulting</b> 16:20,21  <b>fax</b> 4:3  <b>feasible</b> 10:23 11:10 15:4,9  <b>february</b> 8:23  <b>federal</b> 17:10,11 18:16,22 20:14  <b>feel</b> 10:24 26:2  <b>feet</b> 15:11,12,16,18 16:14  <b>file</b> 19:11  <b>filling</b> 17:17  <b>final</b> 20:12  <b>financial</b> 6:16  <b>financially</b> 28:16  <b>find</b> 16:12  <b>fired</b> 10:24 23:7,18 23:22 24:1</p>	<p><b>g</b>  <b>gained</b> 17:1</p>

<p><b>gas</b> 9:20 13:10,10,15 13:16,21 14:2,4,5 <b>gasification</b> 7:24 <b>gasses</b> 16:3 <b>gather</b> 2:15 25:10 <b>gathering</b> 10:6 <b>geared</b> 7:5,9,23 <b>general</b> 19:9 20:2 22:3 <b>generalities</b> 9:10 <b>generally</b> 16:15 22:12 <b>generations</b> 7:20 <b>geologic</b> 10:3 12:22 <b>geologist</b> 26:16 <b>geology</b> 9:24 12:22 12:23 15:7 <b>giant</b> 24:8 <b>give</b> 3:14 4:1,5,25 9:8 12:8 17:2 19:6 22:13,13,19 23:2 24:18 <b>given</b> 3:17 4:3 28:17 <b>gives</b> 14:15 <b>glad</b> 2:17 <b>global</b> 10:15,16 <b>go</b> 3:6 5:5,10 12:2 12:19 14:9 17:6 21:15 22:14,21 26:22 <b>goals</b> 11:2 <b>goes</b> 2:14 14:1 <b>going</b> 3:6 4:23,25 9:8,15 10:18 17:6 22:17,19,21 25:22 26:9 <b>good</b> 16:25 <b>government</b> 7:15 <b>gray</b> 16:16 <b>greens</b> 16:15 <b>guess</b> 3:10 4:22 22:20 24:20 25:9 27:8</p>	<p style="text-align: center;"><b>h</b></p> <p><b>half</b> 12:10 16:17 <b>hand</b> 13:8 28:17 <b>handed</b> 4:6 <b>hard</b> 4:9,9 25:1 <b>harm</b> 8:6 <b>haven</b> 1:12,13 <b>he'll</b> 2:7 5:20 <b>hear</b> 4:15,21 <b>hearing</b> 28:6,7,13 <b>heating</b> 14:13 <b>help</b> 4:16 6:5,20 11:24 20:5 <b>helping</b> 3:24 24:12 <b>hereto</b> 28:16 <b>high</b> 15:19 17:24 23:3 <b>historian</b> 26:24 <b>historic</b> 18:5,6 <b>history</b> 23:2,3 <b>hold</b> 5:10 <b>holes</b> 15:21,22 <b>home</b> 18:21 <b>hope</b> 24:16 <b>hopefully</b> 24:14 <b>hoping</b> 2:16 8:18 <b>hudson</b> 5:25</p> <p style="text-align: center;"><b>i</b></p> <p><b>idea</b> 26:23,24 <b>identified</b> 9:23 15:9 22:14 <b>ii</b> 1:5 <b>impact</b> 2:19,23 6:1 12:19 14:14 17:12 17:15 19:9,21 <b>impacted</b> 18:7 <b>impacts</b> 17:18 19:23 <b>implemented</b> 7:25 9:3 <b>important</b> 12:18 18:9 <b>improve</b> 11:9 <b>incentive</b> 7:12,14,14</p>	<p><b>includes</b> 22:1 <b>increase</b> 13:24 14:4 26:4 <b>increased</b> 11:22 <b>industry</b> 23:17 <b>informal</b> 5:13 6:8 22:22 <b>informally</b> 4:19 <b>information</b> 3:19 12:8 16:24 17:1,24 18:23 21:6 25:10 <b>informational</b> 23:4 <b>initial</b> 12:3,24 25:18 <b>initiative</b> 7:1 <b>injection</b> 10:4 14:6,7 14:8,18,21 15:6,10 15:19,20,24 16:2,7 16:13,18 <b>injections</b> 16:25 <b>input</b> 2:19 18:8 21:9 21:19 <b>intent</b> 8:4 18:15,20 19:2 21:2 22:6 <b>interested</b> 28:16 <b>invite</b> 21:12 <b>involved</b> 5:23 6:17 6:17 <b>involvement</b> 18:10 20:5 <b>isolated</b> 16:11 <b>issue</b> 20:19 <b>issued</b> 18:13 20:19 21:1 <b>issues</b> 2:24 3:2 21:23 22:1 <b>it'll</b> 14:3 <b>items</b> 23:5</p> <p style="text-align: center;"><b>j</b></p> <p><b>jaime</b> 28:3,19 <b>job</b> 1:25 11:22 <b>jobs</b> 11:4,17,20,25 11:25 <b>jordan</b> 14:22</p>	<p><b>july</b> 12:6 19:5 22:9 <b>june</b> 1:11 3:12 12:3 18:16 21:3 28:17</p> <p style="text-align: center;"><b>k</b></p> <p><b>keep</b> 11:3 22:9 <b>keeps</b> 16:1 <b>kind</b> 3:8 19:11 <b>knew</b> 16:24 <b>know</b> 2:25 3:1,11,13 7:11,13 8:3,14,16 17:16,18 19:15 21:8 21:12,24 22:1,18,18 26:5,11,17,19,24 <b>knowledge</b> 17:2</p> <p style="text-align: center;"><b>l</b></p> <p><b>ladies</b> 4:7 <b>landfill</b> 14:20 <b>lands</b> 17:18 <b>lastly</b> 11:8 <b>latest</b> 7:9,25 <b>laundry</b> 2:24 21:22 <b>laws</b> 7:15 <b>layout</b> 23:7 <b>learn</b> 25:14,14 26:7 26:7,10 <b>learned</b> 24:13 <b>left</b> 13:8 20:3 <b>legislation</b> 10:18,20 25:20,21,22 26:3 <b>lesson</b> 23:2 <b>line</b> 3:9 12:1 20:3 <b>lines</b> 26:20,21 <b>list</b> 2:24 19:24 21:21 21:22 <b>literally</b> 16:16 <b>little</b> 2:7 3:6 7:12 17:6 <b>lived</b> 19:18 <b>local</b> 3:1 9:17 11:23 11:23 18:17 26:20 <b>location</b> 20:11 25:5 <b>locations</b> 26:12 <b>long</b> 17:18</p>
---	--	--	---

<p><b>look</b> 15:13,17 16:6 16:15,20 17:19 20:17 23:10 <b>looked</b> 7:20 16:2 <b>looking</b> 2:19 7:6 8:16 12:18 15:19,19 15:24 <b>looks</b> 25:22 <b>lot</b> 7:2 10:13 12:20 21:6 23:23 24:4 <b>lots</b> 17:1 18:22 <b>low</b> 15:25 <b>lower</b> 14:13 <b>lusk</b> 2:1,1 12:19 17:6 24:18 25:3 26:13,25 27:3,6</p>	<p><b>mercury</b> 7:23 <b>mike</b> 2:5,6 5:17,24 9:13 10:9,11 11:8 <b>mile</b> 16:17 <b>miles</b> 17:17 27:1 <b>million</b> 8:20,25 9:1 10:10,11 <b>mind</b> 22:9 <b>mine</b> 3:22 26:25 <b>mining</b> 11:25 <b>minute</b> 12:5 21:16 <b>minutes</b> 22:13,20 <b>missed</b> 25:25 <b>mix</b> 11:3 <b>monetary</b> 7:14 <b>months</b> 4:11 <b>morgantown</b> 2:7 <b>mountaineer</b> 1:4 9:16,18 10:8 14:17 14:20 16:13 24:10 24:13 26:12 <b>move</b> 7:16 8:4 12:6 17:3</p>	<p><b>newspaper</b> 24:2 <b>nice</b> 4:20 <b>nitrogen</b> 23:12,21 <b>normally</b> 21:13 <b>notary</b> 28:4,20 <b>notice</b> 18:15,20 19:2 20:14 21:2 22:6 23:10 <b>nowadays</b> 24:6 <b>number</b> 5:21</p>	<p style="text-align: center;"><b>p</b></p> <p><b>p.m.</b> 1:14 27:10 <b>paper</b> 18:17 <b>part</b> 5:12 6:24 7:3,5 12:14 14:19 25:17 <b>participants</b> 5:18 <b>particular</b> 7:4 <b>parties</b> 28:13,16 <b>partner</b> 2:3 <b>parts</b> 5:22 <b>pass</b> 10:18 <b>passed</b> 21:6 25:21 25:23 <b>peak</b> 11:17 <b>people</b> 2:16 3:1 4:21 5:21 10:13,14 19:18 19:24,25 21:14 22:13 <b>percent</b> 8:9,12,17,18 9:1 10:10 <b>percentage</b> 26:6 <b>perform</b> 22:3 <b>performance</b> 7:22 <b>period</b> 11:17,21 12:11 19:3 22:10,11 25:11 <b>permanent</b> 11:20 <b>permeability</b> 15:20 15:21 16:1 <b>permitting</b> 12:7 <b>person</b> 5:17 <b>phase</b> 12:1,2,6,12,16 13:1 14:25 20:25 <b>phases</b> 20:25 <b>phe</b> 6:1 21:7 <b>phillips</b> 24:3 <b>picture</b> 16:16 24:4 <b>pieces</b> 19:10 <b>pipelines</b> 15:1 17:17 <b>plan</b> 12:13,21 14:7 15:1 25:15,23 <b>plant</b> 8:21 9:16 13:9 14:15,17,20 15:2 23:7 24:3 26:5</p>
<b>m</b>	<b>n</b>	<b>o</b>	
<p><b>mail</b> 3:19,20,21 <b>main</b> 10:7 <b>maintain</b> 11:6,25 <b>maintenance</b> 11:20 14:14 <b>major</b> 17:13 <b>manager</b> 9:8 <b>mandate</b> 17:23 <b>manner</b> 7:15 <b>manual</b> 23:6 <b>map</b> 14:16 <b>march</b> 18:13 <b>mark</b> 2:1 6:11 8:3 9:6 12:19 17:5 <b>matter</b> 10:16 <b>mcmillian</b> 2:5 6:10 6:14 25:15 26:9,21 <b>meet</b> 11:2 <b>meeting</b> 1:10 2:2,9 2:10 3:11,12 5:18 18:10,11,19 21:14 21:19 27:9 <b>meetings</b> 4:13 20:10 <b>megawatt</b> 10:6 <b>megawatts</b> 24:8,10 <b>mentioned</b> 6:12 10:9 11:8 18:25</p>	<p><b>name</b> 2:1 22:17,24 22:25 <b>national</b> 1:5 2:11 12:16 17:7 <b>nature</b> 17:16,20 <b>near</b> 8:21 <b>nearby</b> 18:7 19:19 <b>necessarily</b> 10:16 <b>need</b> 3:2,3 10:19,24 11:3,8 12:8 17:14 17:19,23 18:10 21:23 22:8 23:19 26:2,7,11 <b>needed</b> 9:20 <b>needs</b> 21:21 <b>neither</b> 28:11 <b>nepa</b> 2:11 12:16 17:23 20:2 <b>new</b> 1:12,13</p>	<p><b>objectives</b> 8:8 10:12 <b>occur</b> 19:23 <b>ocean</b> 16:9 <b>office</b> 18:5 <b>official</b> 22:15 26:14 <b>officially</b> 27:8 <b>officials</b> 5:1 22:14 <b>ohio</b> 9:25 23:1 <b>okay</b> 9:12 27:6 <b>once</b> 20:7 25:13 <b>ongoing</b> 6:25 <b>online</b> 25:4 <b>operate</b> 8:9 25:13 <b>operating</b> 10:5 12:13 14:13 23:8 25:15 <b>operational</b> 11:19 12:12 <b>operations</b> 11:20 12:14 <b>opportunities</b> 11:22 11:23 <b>opportunity</b> 3:14 20:5 <b>oral</b> 24:20 <b>orient</b> 14:16 <b>original</b> 18:22 <b>outlet</b> 13:10 <b>overview</b> 9:9 14:15 <b>owned</b> 9:16 <b>oxide</b> 23:12,21</p>	

<p><b>plants</b> 10:21,24 23:19,23,24 24:1 <b>please</b> 3:17 19:6 <b>point</b> 4:15 5:10 6:11 8:3 13:21 20:12,15 21:12 <b>pointing</b> 6:18 <b>policy</b> 1:5 2:12 12:17 17:7 <b>pollution</b> 23:23 <b>pomero</b> 23:1 27:2 <b>porosity</b> 15:20,20,25 <b>portion</b> 13:9 <b>possible</b> 15:3 <b>posters</b> 22:22 <b>potential</b> 11:2 14:12 <b>potentially</b> 17:18 19:21,23 <b>potomac</b> 5:25 <b>power</b> 5:19 6:25 9:16 10:21,24 13:9 23:7,18,23 24:1,3 <b>powerpoints</b> 25:1 <b>precipitators</b> 23:14 23:20 24:7 <b>prefer</b> 3:15 4:10 5:9 5:14 <b>preliminary</b> 10:9 <b>prepare</b> 20:12 <b>prepared</b> 20:7 <b>preparing</b> 6:1 21:8 <b>present</b> 7:11 <b>presentation</b> 3:7 5:9 12:20 17:4 <b>presentations</b> 2:5 4:24 5:11,17 6:9 24:25 <b>preservation</b> 18:5 <b>pressure</b> 13:24 14:4 <b>primarily</b> 7:10,23 9:2 25:9 <b>principles</b> 23:8 <b>print</b> 28:9 <b>prior</b> 7:20</p>	<p><b>priority</b> 4:25 <b>probably</b> 2:10 18:9 18:15,18 20:11 21:3 25:20 26:9 <b>proceed</b> 26:11 <b>process</b> 2:11 3:7 6:3 6:4 9:10,15 12:16 12:17 13:1,3,7,13 13:14,16 14:12 17:8 18:11,12 20:2,4 <b>produce</b> 2:20 3:5 6:5 <b>producing</b> 21:10 <b>production</b> 23:13 <b>professional</b> 28:4 <b>program</b> 6:24,24 8:9 <b>progress</b> 8:10 <b>project</b> 1:5 2:8,13 2:20 5:23 6:15 8:2,4 8:5,8,21,24,25 9:2,7 9:8,9,15,25 10:8,14 12:2,19 13:5 14:25 15:9 17:1,3,8,15,16 17:17 18:14,23 19:15,17,23 20:23 20:25 25:8,9,10,12 25:17 <b>projects</b> 6:18 7:9,20 9:13 11:11 12:25 17:13 <b>properties</b> 9:17 <b>proposed</b> 14:18,21 19:12,15 <b>provide</b> 6:15 7:14 18:2,24 21:13,14,16 <b>providing</b> 6:22 17:24 <b>public</b> 1:10 2:10,13 2:18 3:1,16 4:13 15:4 18:10,10 19:3 20:5,8,10,17 21:13 22:10 28:4,6,7,13 28:20</p>	<p><b>published</b> 18:16 <b>pull</b> 13:9 <b>purpose</b> 2:9 9:12 <b>put</b> 4:16 13:3 23:22 24:6 25:3,5</p> <p style="text-align: center;"><b>q</b></p> <p><b>quality</b> 6:5 17:24 <b>question</b> 24:23 25:7 26:16 <b>questions</b> 4:19 5:10 5:13 24:21 26:13 27:7 <b>quickly</b> 21:10</p> <p style="text-align: center;"><b>r</b></p> <p><b>range</b> 16:4 <b>rate</b> 8:19 <b>rd</b> 7:7 <b>reaction</b> 13:17 <b>ready</b> 6:19 13:1 <b>reagent</b> 13:19 <b>really</b> 4:15 6:19 20:16 <b>reason</b> 6:16 8:7 9:23 21:18 <b>reasons</b> 9:18 10:7 14:11 <b>recognized</b> 23:17 <b>record</b> 3:10 20:20 20:20 21:1 <b>recovery</b> 9:3 <b>red</b> 15:2 20:3 <b>reduce</b> 24:12 <b>reduced</b> 23:23 24:7 28:9 <b>reducing</b> 24:1 <b>reduction</b> 8:11 23:18,22 <b>regeneration</b> 13:23 <b>regenerator</b> 14:3 <b>register</b> 18:16,22 20:14 <b>registered</b> 28:3 <b>regulate</b> 10:19</p>	<p><b>regulations</b> 7:15 <b>related</b> 11:4,25 28:12 <b>relative</b> 28:14 <b>release</b> 4:11 <b>released</b> 20:7 <b>reliable</b> 11:6 <b>remember</b> 20:24 <b>remind</b> 21:18 <b>replenished</b> 16:10 <b>reporter</b> 28:1,4 <b>representing</b> 2:4 5:20 <b>represents</b> 23:25 <b>request</b> 4:7,8 <b>requirement</b> 17:11 <b>requires</b> 2:12 <b>reservoirs</b> 10:4 15:10 16:2,7,14 <b>resident</b> 23:1 <b>resolve</b> 24:14 <b>resource</b> 11:4 <b>resources</b> 17:19 18:7 <b>respond</b> 19:25 <b>retrofit</b> 8:15 <b>reuse</b> 14:1 <b>revert</b> 5:12 <b>review</b> 2:13 17:13 <b>ridge</b> 15:11 <b>right</b> 10:22 12:1 14:17,22,23 20:11 21:5 25:21 <b>rights</b> 15:3,5 <b>river</b> 9:25 27:2,3 <b>roads</b> 15:5 <b>robert</b> 22:25 <b>rock</b> 15:25 16:14,16 16:17 <b>ropes</b> 15:2 <b>rose</b> 15:10 <b>roughly</b> 3:11 <b>round</b> 4:13 7:9,19 7:22,25,25 8:2,22 20:10</p>
--	---	---	---

<b>rounds</b> 7:19 <b>rpr</b> 28:19 <b>rules</b> 21:15 <b>run</b> 15:10 <b>running</b> 25:23  <b>s</b>  <b>saline</b> 10:3 <b>salt</b> 16:8 26:20,25 <b>saltier</b> 16:9 <b>salty</b> 16:6 <b>sandstone</b> 15:10 <b>says</b> 18:14 20:22 25:21 <b>scale</b> 7:7 10:6 11:10 17:3 <b>schedule</b> 21:2,4,5,11 <b>scheduled</b> 11:18 12:9 <b>schematic</b> 13:7 <b>school</b> 1:12 23:3 <b>scientists</b> 23:17 <b>scope</b> 17:16 20:5 21:19 <b>scoping</b> 1:10 2:10 2:18 18:10 19:3 22:10 <b>scrubbers</b> 23:21 <b>seams</b> 15:17 <b>second</b> 3:9 8:1,22,22 9:23 13:18 <b>secondly</b> 11:3 <b>section</b> 13:18 14:16 14:20 19:10 <b>seen</b> 23:20 25:24 <b>selected</b> 2:8 7:9 8:2 8:22 <b>send</b> 3:18 22:5 25:4 <b>sense</b> 25:5 <b>sent</b> 13:22 14:3,6 <b>separate</b> 3:22 13:25 <b>september</b> 9:4 12:12 <b>sequester</b> 8:19 <b>sequestration</b> 1:4 7:4,10	<b>series</b> 11:11 <b>session</b> 4:23 5:13 6:8 22:22 27:9 <b>sherrick</b> 2:3 9:6,7 <b>shortly</b> 3:7 4:11 <b>show</b> 2:16 3:11 <b>showed</b> 26:1 <b>shown</b> 14:18 <b>shows</b> 23:7 24:3 <b>sides</b> 27:3 <b>signed</b> 5:4,7 <b>significant</b> 16:21 <b>simplified</b> 13:6 <b>site</b> 11:20 14:9,19,21 14:22,22 16:22 26:5 <b>sites</b> 14:8,18,24 15:6 <b>size</b> 17:17 <b>skipping</b> 4:24 <b>slide</b> 6:11 14:10 20:2 <b>slides</b> 3:9 <b>small</b> 7:3 <b>smaller</b> 17:21 25:10 <b>smoke</b> 24:5 <b>so2</b> 13:11 <b>social</b> 12:19 19:18 <b>solicit</b> 2:13 <b>sooner</b> 20:19 <b>soot</b> 24:4 <b>sort</b> 17:12 26:18 <b>space</b> 15:21 <b>speak</b> 2:7 3:14,15 5:3,4,7 6:13 22:12 22:16 <b>speaker</b> 24:23 25:7 25:24 26:15,23 27:1 27:4,5 <b>speakers</b> 22:19,21 <b>speaking</b> 5:12 <b>spoke</b> 22:17,18 <b>sponsored</b> 10:1 15:9 <b>spread</b> 15:23 <b>stack</b> 13:9 <b>stacks</b> 24:5	<b>stage</b> 13:13,18,23 21:13 <b>stages</b> 13:12 <b>standard</b> 19:11 <b>standpoint</b> 10:15 11:1 25:8 <b>staple</b> 22:3 <b>start</b> 6:8 11:18 12:8 12:9,11 20:23,25 <b>started</b> 3:12 4:22 5:16 7:1 8:24 9:24 <b>startup</b> 25:24 <b>state</b> 9:19 18:5 28:5 <b>statement</b> 2:20,21 2:23 6:2 17:12,15 19:9 <b>states</b> 11:5 <b>stayed</b> 23:9 <b>steam</b> 13:24 <b>stenotype</b> 28:8 <b>step</b> 11:12 18:11 23:25 <b>steps</b> 26:3 <b>storage</b> 12:23 14:16 23:25 24:14 <b>straight</b> 3:23 22:7 <b>studied</b> 26:18 <b>study</b> 12:22 16:23 25:11 <b>subcontractors</b> 5:22 21:7 <b>subjects</b> 23:3 <b>success</b> 24:17 <b>suitable</b> 9:24 10:3 12:23 <b>sulphur</b> 23:11,21 <b>supply</b> 11:6 <b>support</b> 6:15,22 12:25 <b>supporting</b> 6:2 <b>sure</b> 3:3,4 4:24 8:5 11:9 12:23 19:7 22:7,17 25:3,6 <b>surface</b> 15:18	<b>system</b> 8:15,15 13:11 24:14 <b>systems</b> 8:14 9:14 23:13,22  <b>t</b>  <b>table</b> 21:21 <b>taken</b> 28:6,8,14 <b>talk</b> 4:18,21 18:3,4 21:23 22:22 <b>talked</b> 18:5 26:16 <b>talking</b> 8:16 20:24 <b>target</b> 8:8,9 <b>technologies</b> 7:6,24 10:22,25 11:9 <b>technology</b> 6:19,21 7:5 9:14,20,21,22 11:1,12,24 14:13 19:14 23:16,25 24:11 25:19 <b>tell</b> 22:24 24:3 <b>telling</b> 20:3 <b>tells</b> 16:9 18:23 <b>temperature</b> 13:14 13:24 <b>test</b> 10:5 16:25 <b>thank</b> 4:19 24:17 <b>thing</b> 11:15 16:6,12 16:19,19 <b>things</b> 5:20 15:13 23:14 <b>think</b> 2:24 4:6 5:3 11:5 14:12 19:3 22:14,20 23:24 27:9 <b>third</b> 13:22 <b>thompson</b> 28:3,19 <b>thousands</b> 16:14 <b>three</b> 5:18 7:18,25 8:22 12:21 13:12 26:8 <b>time</b> 3:8 4:14 5:16 8:1,3 11:17 12:1,11 17:22 20:11 23:16 25:11 26:10
--	---	---	---

<p><b>times</b> 16:9  <b>titus</b> 22:25,25  <b>told</b> 6:13  <b>tonight</b> 2:14 4:20  18:19  <b>tons</b> 8:20  <b>top</b> 15:15  <b>total</b> 8:24  <b>track</b> 14:22  <b>transmission</b> 15:3  <b>transport</b> 14:16  <b>true</b> 5:2  <b>try</b> 13:6 22:11  <b>tuesday</b> 1:11  <b>turn</b> 17:4  <b>type</b> 6:17 10:18  25:22</p>	<p><b>w</b></p> <p><b>wait</b> 20:18  <b>walk</b> 6:5  <b>want</b> 2:15,22,25 3:1  3:13,15 5:3,4,5,7  6:20 13:6 18:21  21:19,20 22:16  24:18 25:14  <b>wanted</b> 26:4  <b>wants</b> 21:16 22:12  <b>water</b> 15:15 16:7,8,9  16:10,11 17:19  <b>ways</b> 3:16 4:1 15:3  18:24 22:5  <b>we've</b> 4:2 6:7 9:23  19:24 21:6 22:14  23:20  <b>website</b> 25:5  <b>wells</b> 12:22 14:6,7,8  14:21 15:14 27:5  <b>went</b> 10:11  <b>west</b> 1:13 18:4 28:5  <b>western</b> 14:19  <b>wet</b> 17:18  <b>wetlands</b> 19:19  <b>widespread</b> 11:24  <b>work</b> 5:14 7:2 13:10  <b>working</b> 21:4  <b>write</b> 4:2  <b>writing</b> 3:18</p>
<p><b>u</b></p> <p><b>understand</b> 15:7  <b>understanding</b> 10:3  13:4  <b>unintelligible</b> 7:3,21  8:15,20 14:6,9 18:3  23:11,12,20,22  26:19 27:6  <b>unit</b> 24:8,8,10  <b>united</b> 11:5  <b>units</b> 24:5,10  <b>upper</b> 13:8  <b>use</b> 24:16  <b>usually</b> 16:4 22:13  <b>utility</b> 23:17</p>	<p><b>y</b></p> <p><b>year</b> 8:20 9:3 12:10  19:5 24:2 26:8,10  <b>years</b> 7:18 12:14,15  16:23 23:9,19 24:9  25:16,18,23 26:8</p>
<p><b>v</b></p> <p><b>validation</b> 17:1  <b>valley</b> 9:25  <b>value</b> 8:24  <b>various</b> 5:21 18:24  19:22  <b>versions</b> 20:1  <b>viable</b> 25:12  <b>virginia</b> 1:13 18:4  28:5  <b>volume</b> 13:15</p>	<p><b>z</b></p> <p><b>zone</b> 15:11 16:11  <b>zones</b> 15:19,20,24</p>