



The Future is Bright in Pennsylvania

PENNSYLVANIA INDUSTRIES OF THE FUTURE COAL MINING VISION AND ROADMAP

Submitted to

Pennsylvania Department of Environmental Protection

by

**The Dominion Center for Environment and Energy
School of Engineering
University of Pittsburgh
Pittsburgh, PA**

July 2004



To the memory of Professor Frederick G. Pohland

TABLE OF CONTENTS

EXECUTIVE SUMMARY	ii
INTRODUCTION	
Objective 1	1
General Perspective	1
BACKGROUND	
Coal Field Geography	2
Coal Production and Employment	3
VISION STATEMENT	
Overarching Goals	8
Key Barriers	9
Unique Opportunities	9
ROADMAP TO THE FUTURE	
Roadmap Area 1 - Mine Safety and Productivity	10
Roadmap Area 2 - Coal Beneficiation	11
Roadmap Area 3 - Environmental Issues	12
Roadmap Area 4 - Political and Economic Issues	13
POSTSCRIPT	15
BIBLIOGRAPHY	16
APPENDICES	
Appendix A: Contributors	A1
Appendix B: Advisory Board Members	A2
Appendix C: PA Coal Mining IOF Workshop, May 5, 2003	A3
PA Coal Mining IOF Workshop, July 22, 2003	A5
Appendix D: PA Coal Mining Industry Resources	A7
Appendix E: PA State Agencies for Coal Mining	A8
Appendix F: PA Coal Mining Industry Database	A9

EXECUTIVE SUMMARY

This document was prepared to provide a vision and roadmap for the Pennsylvania Coal Mining Industry of the Future, supported by the Pennsylvania Department of Environmental Protection under its Pennsylvania Industries of the Future (PAIOF) program, which is part of a larger U.S. Department of Energy (DOE), Industries of the Future (IOF) program.

Through contacts with the coal industry, government and academia, information was assembled dealing with coal mine safety and productivity, coal beneficiation issues using innovative, energy-saving and cost-effective technologies, and approaches to produce and utilize Pennsylvania coal in an environmentally friendly manner. Two separate, 1-day workshop sessions were held at the University of Pittsburgh on May 5, 2003 and July 22, 2003, respectively. The participants of these workshops provided broad input and critique to the development of the vision and roadmap for the PA-Coal Mining IOF. The invited speakers and members of the Advisory Board helped lead discussions. Based on the collective outcome of these activities, a vision and a roadmap with four development areas have been established for the future of coal mining industry in Pennsylvania. These are:

Vision Statement: *The Pennsylvania Coal Mining Industry develops/applies science and technology to provide cost-effective and environmentally sound options that assures sustainable use of coal and its recognition as a valuable domestic/national resource.*

Four Roadmap Development Areas:

- Mine Safety and Productivity
- Coal Beneficiation
- Environmental Issues
- Political and Economic Issues.

Specific technology and program initiatives were identified for each of these four roadmap areas. The implementation of these initiatives will lead Pennsylvania coal mining industry to achieve its ultimate goals of improving the public perception of coal mining to employees and the environment while making the industry productive, profitable and attractive to investors. Consequently, it assures that coal mining is sustainable in Pennsylvania.

INTRODUCTION

Objectives

This document was prepared to provide a vision and roadmap for the Pennsylvania Coal Mining Industry of the Future (PA-Coal Mining IOF). Supported by the Pennsylvania Department of Environmental Protection under its Pennsylvania Industries of the Future (PAIOF) program, it is part of a larger U.S. Department of Energy (DOE), Industries of the Future (IOF) program to support the implementation of advanced energy efficiency, renewable energy, and pollution prevention technologies for industrial applications. The goal of the PAIOF is to improve the competitiveness of Pennsylvania's industries by delivering technical and financial assistance, and engaging in research and development activities. The Dominion Center for Environment and Energy (DCEE), University of Pittsburgh received a PAIOF implementation grant focusing on coal mining, which resulted in the preparation of this document.

General Perspective

During the 12-month period (October 2002 – September 2003) of development, contacts were made with the coal industry, government and academia to obtain and share information dealing with coal mine safety and productivity as well as coal beneficiation, using innovative, energy-saving, and cost-effective technologies and approaches to produce and utilize Pennsylvania coal in an environmentally responsible manner. A 16-member Advisory Board representing industry, government, academia and pertinent allied organizations (Appendix B) was assembled, from which a 7-member Steering Committee was formed to provide guidance and review of developments and progress throughout the project period.

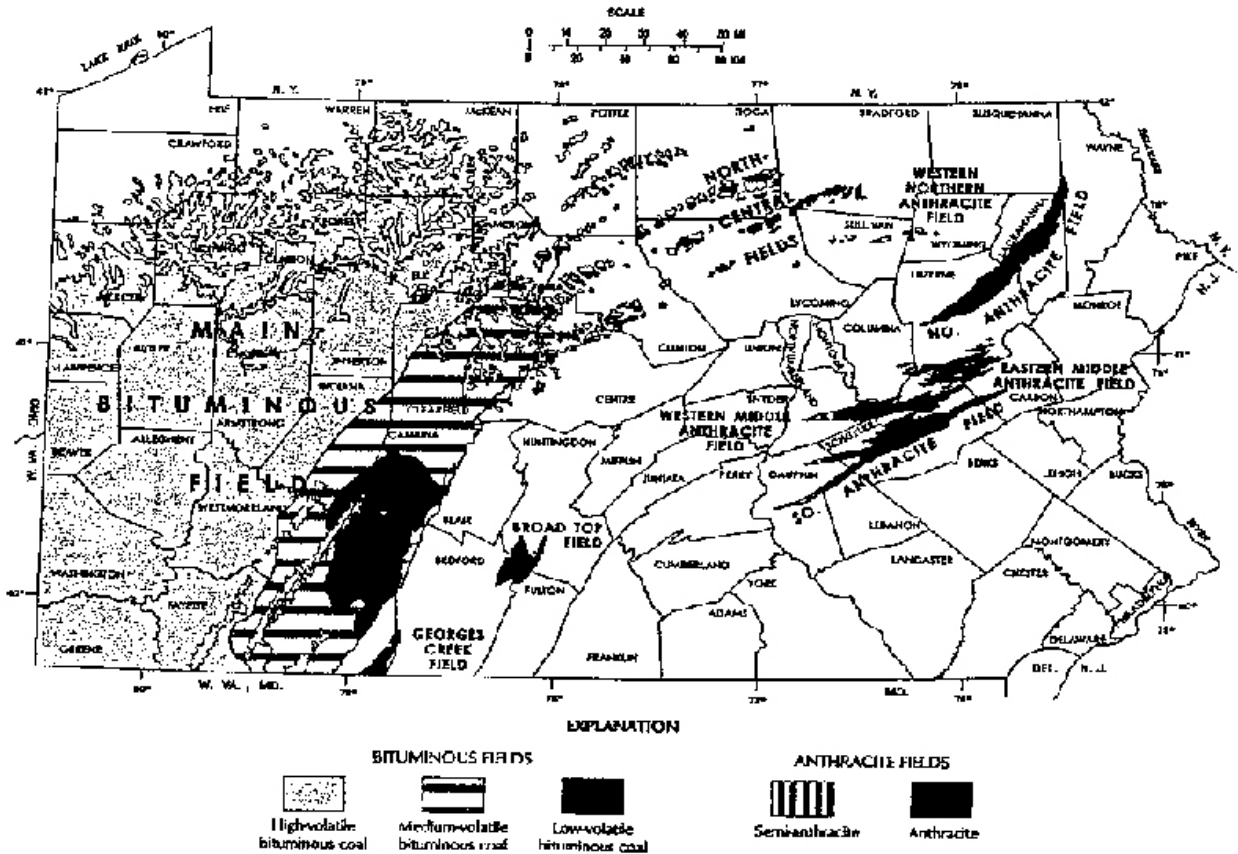
Of particular importance was the conduct of two separate, 1-day workshop sessions at the University of Pittsburgh on May 5, 2003 and July 22, 2003 (Appendix C). These workshops were organized and scheduled without registration cost to the participants in order to encourage broad input and critique from all societal sectors as the vision and roadmap for the PA-Coal Mining IOF evolved. The formats for the workshops featured Keynote Speakers and presentations in four roadmap development areas: Mine Safety and Productivity, Coal Beneficiation, Environmental Issues, and Political and Economic Issues. The invited speakers and members of the Steering Committee helped lead the agenda and encourage audience participation in both breakout and plenary sessions. The collective outcome of these activities formed the basis of the vision and roadmap presentations in this report (See the list of Contributors in Appendix A).

BACKGROUND

Materials presented in this section were taken mostly from the *Pennsylvania Coal Data 2002*, issued by the Pennsylvania Coal Association and the *Keystone Coal Manual 2003*, by Coal Age (a Primedia Publication). These provide the necessary background information on which the vision and roadmap for the PA Coal Mining Industry of the Future are based.

Coal Field Geography

Pennsylvania includes the northeastern portion of the Appalachian Coal Basin (Figure 1). Bituminous coal underlies more than 13,000 square miles in coalfields reaching across western and central portions of the state. They include the Main Bituminous Field, occupying most of western Pennsylvania, and several smaller fields in the center of the state. In addition to bituminous coal resources, almost all of the nation's anthracite is found in eastern Pennsylvania. The Anthracite fields stretch from the north-central to middle-eastern part of the state, as shown in the figure below.



Source: *Pennsylvania Bureau of Topographic and Geologic Survey*

Figure 1 Pennsylvania Coal Field Geography

Pennsylvania coal beds are interlaid with layers of sandstone, shale and limestone. About 25 beds are mined in the state. Major seams (coal beds) include the Pittsburgh, the Upper and Lower Freeport, and the Upper and Lower Kittanning. These five beds, ranging from three to five feet thick or more, account for about 75 percent of the state's output.

Coal Production and Employment

Historically, the most important coal bed in the United States was the Pittsburgh, a seam of bituminous coal averaging more than five feet thick and mined not only in Pennsylvania, but also in Ohio, West Virginia and Maryland. The Pittsburgh coal alone still accounts for more than 60 percent of Pennsylvania's total bituminous coal production. In addition to 25 billion tons of reserves of bituminous coal, there is an additional 7 billion tons of potential reserves of anthracite.

The 2002 Pennsylvania coal production and employment highlights and comparisons with 2001 are presented in Tables 1, 2, and 3, respectively. The total 2002 bituminous coal production (including underground mines, surface mines and refuse reprocessing sites) decreased 9 % from 2001 with a 5% decrease in associated employees. The decrease was particularly severe in bituminous refuse reprocessing production and employment, both of which decreased nearly 27% in 2002 from 2001. On the other hand, the number of anthracite underground and surface mines (including refuse reprocessing) and associated employees all increased significantly in 2002 when compared with 2001. In contrast to bituminous coal, a major focus on anthracite refuse reprocessing has developed. Compared with 2001, the anthracite refuse reprocessing production and associated employees in 2002 increased 56% and 164%, respectively. From a national perspective, Pennsylvania remains the fourth leading coal production state, accounting for about 7.0 % of the U.S. total in 2002; Wyoming, West Virginia and Kentucky continue to dominate production, accounting for more than 60 percent of the U.S. total. As in the past year, West Virginia produced more than twice as much coal as Pennsylvania, with Kentucky and Wyoming producing two times and four times as much, respectively.

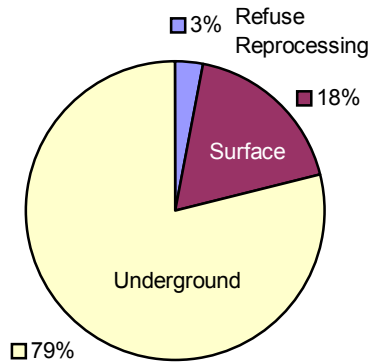
Table 1 2002 PENNSYLVANIA COAL PRODUCTION

	Production, Tons	Employment
Bituminous total:	70,044,685	6,995
Underground	55,266,926	4,367
Surface	12,837,245	2,045
Refuse Reprocessing	1,940,514	93
Prep Plants		490
Anthracite total:	4,262,856	970
Underground	203,253	156
Surface	2,165,192	372
Refuse Reprocessing	1,894,411	267
Prep Plants		175
Combined Total:	74,307,541	7,965

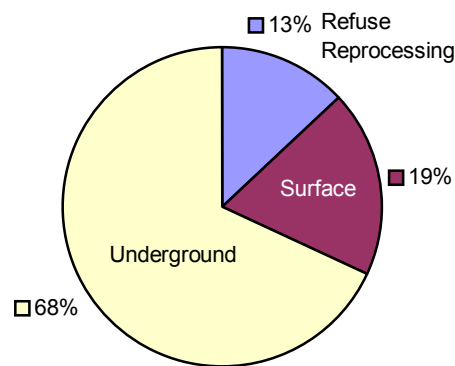
Table 2 BITUMINOUS COAL PRODUCTION HIGHLIGHTS

	2002	2001	Change	% Change
Underground Mines				
Production (tons)	55,266,926	58,675,185	-3,408,259	-6%
Production (cubic yards)*	49,522,335	52,576,331		
Employees	4,367	4,681	-314	-7%
Hours Worked	9,452,302	10,658,808	-1,206,506	-11%
Mines Reporting Production	46	44	2	5%
Surface Mines including GFCCs				
Production (tons)	12,837,245	15,759,595	-2,922,350	-19%
Production (cubic yards)*	11,502,908	14,121,501		
Employees	2,045	2,236	-406	-9%
Hours Worked	2,822,359	3,269,730	-452,842	-14%
Mines Reporting Production	368	347	21	6%
Refuse Reprocessing including GFCCs				
Production (tons)	1,940,514	2,641,882	-701,368	-27%
Production (cubic yards)*	1,738,812	2,367,278		
Employees	93	127	-34	-27%
Hours Worked	118,191	185,239	-67,048	-36%
Sites Reporting Production	26	36	-10	-28%
Total Production (tons)	70,044,685	77,076,662	-7,031,977	-9%

2002 Total Bituminous Production



2001 Total Bituminous Production

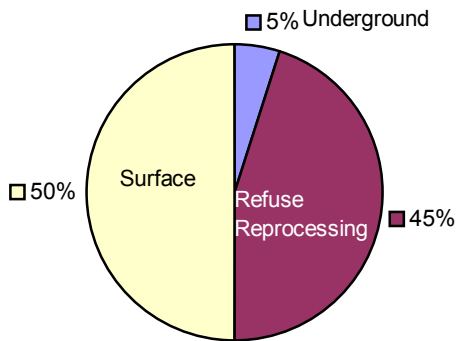


*Production reported in cubic yards calculated using 1,800 tons per acre-foot or 1.116 tons per cubic yard.

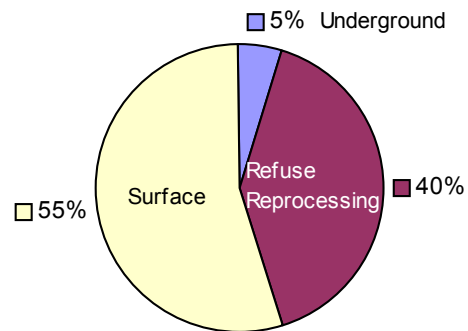
Table 3 ANTHRACITE PRODUCTION HIGHLIGHTS

	2002	2001	Change	Change, %
Underground Mines				
Production (tons)	203,253	154,111	49,142	32%
Production (cubic yards)*	160,168	121,443		
Employees	156	99	57	58%
Hours Worked	237,204	155,337	81,867	53%
Mines Reporting Production	26	13	13	100%
Surface Mines				
Production (tons)	2,165,192	1,645,575	519,617	32%
Production (cubic yards)*	1,706,219	1,296,749		
Employees	372	489	-117	-24%
Hours Worked	690,559	671,405	19,154	3%
Mines Reporting Production	45	40	5	13%
Refuse Reprocessing				
Production (tons)	1,894,411	1,216,909	677,502	56%
Production (cubic yards)*	1,492,838	958,951		
Employees	267	101	166	164%
Hours Worked	403,936	189,514	214,422	113%
Sites Reporting Production	44	18	26	144%
Total Production (tons)	4,262,856	3,016,595	1,246,261	41.3%

2002 Total Anthracite Production



2001 Total Anthracite Production



*Production reported in cubic yards calculated using 94 lb per cubic yard or 1.269 tons per cubic yard.

As indicated in Table 4, 22 Pennsylvania counties produced bituminous coal, and six counties produced anthracite coal in 2002. The top six bituminous coal producing counties – Greene, Washington, Armstrong, Somerset, Clearfield and Indiana– combined for almost 93 percent of the total bituminous output, while Luzerne and Schuylkill produced about 86 percent of the total anthracite output. Pennsylvania Department of Environmental Protection figures for 2002 show that about 64 percent of the state's bituminous coal labor force worked in underground operations, about 29 percent at surface operations, and the remainder at preparation plants and rail-loading facilities. The distribution for the anthracite labor force indicated 22 percent, 53 percent and 25 percent in underground operations, at surface operations, and at preparation plants, respectively.

Table 4 2002 PENNSYLVANIA COAL PRODUCTION AND EMPLOYEES, BY COUNTY

Bituminous Coal:									
<u>Rank</u>	<u>County</u>	<u>Total Production</u>	<u>Underground Production</u>	<u>Surface Production</u>	<u>Number of Operations</u>	<u>Underground Employees</u>	<u>Surface Employees</u>	<u>Preparation Plant Employees</u>	<u>Total Plant Employees</u>
1.	Greene	41,492,245	41,047,322	444,923	19	2,674	38	221	2,933
2.	Washington	7,096,441	6,663,035	433,406	10	781	52	124	957
3.	Armstrong	4,901,770	3,678,292	1,223,478	39	279	135	24	438
4.	Somerset	4,274,496	1,373,951	2,900,545	61	224	306	10	540
5.	Clearfield	2,740,123	23,541	2,716,582	111	20	523	27	570
6.	Indiana	2,516,465	2,000,028	516,437	46	296	103	23	422
7.	Cambria	929,956	167,927	762,029	25	28	84	8	120
8.	Westmoreland	910,102		910,102	13		99	2	101
9.	Elk	544,105		544,105	13		208		208
10.	Jefferson	536,496	106,636	429,860	31	27	106	2	135
11.	Clarion	482,800		482,800	17		105	9	114
12.	Butler	406,982		406,982	15		67		67
13.	Beaver	325,729	206,194	119,535	3	38	15		53
14.	Fayette	312,987		312,987	13		57	1	58
15.	Lycoming	223,666		223,666	1		35		35
16.	Centre	67,757		67,757	3		7		7
17.	Lawrence	43,810		43,810	5		5	5	10
18.	Venango	35,586		35,586	3		5		5
19.	Blair	28,517		28,517	2		14		14
20.	Bedford	13,392		13,392	1		9		9
21.	Allegheny	6,021		6,021	5		12	34	46
22.	Sullivan	4,009		4,009	2		6		6
	Total :	67,893,455	55,266,926	12,626,529	438	4,367	1,991	490	6,848
Anthracite Coal:									
1.	Luzerne	1,204,091		1,204,091	18		157	46	203
2.	Schuylkill	836,658	100,001	736,657	40	71	145	105	321
3.	Columbia	183,823	85,866	97,957	6	25	34		59
4.	Lackawanna	103,689		103,689	2	48	22		70
5.	Northumberland	39,422	16,624	22,798	14		14	16	30
6.	Dauphin	762	762		5	12		8	20
	Total :	2,368,445	203,253	2,165,192	85	156	372	175	703
Source: Pennsylvania Department of Environmental Protection									

VISION STATEMENT

The Vision Statement - The Pennsylvania Coal Mining Industry develops/applies science and technology to provide cost-effective and environmentally sound options that assures sustainable use of coal and its recognition as a valuable domestic/national resource.

Overarching Goals

The vision for Pennsylvania Coal Industry of the Future is aimed at achieving a number of specific goals:

1. Coal mining is sustainable in Pennsylvania.
2. PA coal is mined in a safe, efficient, economic and environmentally sound manner.
3. PA mine sites provide for the maximum protection of the workforce's health and safety and public welfare.
4. PA coal is a major contributor to economic growth and coal-fired electric generation is the linchpin of PA's economy.
5. PA coal is the predominant source of electricity and it is cost competitive with other fuel sources. Generators are able to burn coal while complying with air and water quality mandates and land use requirements.
6. PA coal is moved from the mine to the prep plant to the end-user in a safe, efficient and environmentally sound manner. Coal transportation does not negatively affect the public infrastructure.
7. Public understands coal's link to electricity. Further, society understands and accepts the cost/benefit relationship associated with coal usage.
8. New applications of or uses for PA coal are discovered and deployed.
9. PA's mining companies will proactively identify issues and work with stakeholders to resolve those issues before a legislative remedy is pursued.
10. The nation recognizes that increased use of coal is a key to homeland security by reducing our dependence on foreign sources of energy.

Key Barriers

In considering the challenges and opportunities associated with assuring sustainable use of Pennsylvania coal and recognizing it as a valuable national resource, certain barriers were acknowledged, including:

- Depletion of readily accessible coal reserves.
- High capital investment for coal mining infrastructure and innovation.
- Increasingly more stringent/inflexible regulations.
- Inadequate inventory of geologic and mining operational records.
- Inadequacy of replacements for an aging work force.
- Difficult economic and political climate.

Unique Opportunities

Opportunities for PA coal mining industry include:

- Waste coal (both anthracite and bituminous coal) recovery and processing.
- Mine water use.
- Re-mining and reclamation of abandoned mines.
- Carbon dioxide sequestration in unminable coal seams and via reclamation of disturbed land.

Each of these opportunities can be driven by certain recognized outcomes that could favorably catalyze implementation. Included are:

- Reliable and affordable clean energy.
- Reduction and mitigation of adverse environmental effects.
- Beneficial economic, social and political climate.
- Effective training and public education programs.
- Competitive technology development and innovation.

Based on these considerations, a roadmap for Pennsylvania Coal Industry of the Future was formulated, as presented in the next section.

ROADMAP TO THE FUTURE

To accommodate the vision and overarching goals of Pennsylvania Coal Mining Industry of the Future, and as a consequence of the input and recommendations obtained from the workshop sessions and Advisory Board membership, four roadmap development areas were established. The roadmap areas include: (1) mine safety and productivity, (2) coal beneficiation, (3) environmental issues, and (4) political and economic issues. The key provisions of each of the roadmap development areas are identified and presented below.

Roadmap Area 1 - Mine Safety and Productivity

The overall goal of this roadmap area is to optimize productivity of the coal mining operation with a special emphasis on safety and health for mine workers.

Table 5 INITIATIVES IN MINE SAFETY AND PRODUCTIVITY

Focused Initiatives*	Technology & Program Needs	Targeted Goals
Provide training innovations to improve and link safety and productivity, including orientation programs for new miners and high-technology maintenance	<ul style="list-style-type: none"> • Multidisciplinary educational program for coal mining professionals • Training programs in safe use and maintenance of modern mining equipment 	<ul style="list-style-type: none"> • Well-trained coal miners • Improve productivity
Develop mine communication systems designed to enhance safety	<ul style="list-style-type: none"> • Wireless through the earth communication technology • Ground position system 	<ul style="list-style-type: none"> • Improve communication system
More widespread use of sensors and automation to enhance productivity and efficiency	<ul style="list-style-type: none"> • Sensor technologies for monitoring the entire mining operation (worker & machine) • Automation of equipment and operation for coal mining 	<ul style="list-style-type: none"> • Reliable detection of gas, dust and noise during mining • Improve productivity
Develop risk assessment techniques for hazard reduction	<ul style="list-style-type: none"> • Management program for risk assessment 	<ul style="list-style-type: none"> • Reduce accidents • Improve mine safety
Develop technology to locate, identify, and manage data concerning geological and manmade problems	<ul style="list-style-type: none"> • Information technology for data collection, record keeping and retrieval 	<ul style="list-style-type: none"> • Accurate coal mine records • Ease of information retrieval
Develop new technology to address issues such as thin-seam mining, multiple-seam mining, and re-mining	<ul style="list-style-type: none"> • Robotic technology for coal mining and re-mining • New remote sensing technologies for mining 	<ul style="list-style-type: none"> • Improve productivity • Increase coal recovery
Investigate effective methane recovery systems	<ul style="list-style-type: none"> • Methane drainage technology • Coal seam characterization in terms of methane content 	<ul style="list-style-type: none"> • Methane as a by-product • Improve mine safety

* Initiatives are listed in relative rank order by the participants, who attended the PA Coal Industry IOF Workshop, July 22, 2003.

In addition to initiatives listed in Table 5, improvements of safety and productivity can be achieved through the application of current best practices in mining operations. Although, the roadmap does not specifically address this issue, the maintaining of best practices, such as optimized motors, pumps, and ventilation systems, should always be considered as an integral part of coal mining in the future.

Roadmap Area 2 - Coal Beneficiation

The main goal of this roadmap area is to improve quality of product coal to meet the needs and requirements of end users, particularly that of the electric generation industry.

Table 6 INITIATIVES IN COAL BENEFICIATION

Focused Initiatives*	Technology & Program Needs	Targets addressed
Develop improved technologies for the beneficiation of PA coals <ul style="list-style-type: none"> • Develop effective clay removal technology for beneficiation and waste disposal • Develop more efficient dewatering technologies with particular emphasis on fine size coal • Develop more cost effective technologies for the reconstitution of coal fines 	<ul style="list-style-type: none"> • Advanced physical separation technologies in classification and sedimentation • Technologies for fine coal dewatering • Technologies for fine coal agglomeration • Electric, magnetic and pneumatic separation technologies for coal beneficiation 	<ul style="list-style-type: none"> • Improve product coal quality • Minimize waste • Reduce costs
Determine the effectiveness of firing beneficiated coals on controlling the cost of operation and maintenance of power plants	<ul style="list-style-type: none"> • Joint program by coal/power industry to evaluate the effect of coal quality on power plant operations 	<ul style="list-style-type: none"> • Meet the requirements and needs of electric generation industry
Determine the effect of coal beneficiation on trace elements, including mercury, and their disposition in preparation plant refuse and power plant combustion products	<ul style="list-style-type: none"> • Joint program by coal/power industry and government to evaluate the effect of mercury and other trace elements on the environment 	<ul style="list-style-type: none"> • Minimize environmental impact due to coal processing and combustion
Develop improved technologies for controlling dust during processing, handling, storage, and transportation.	<ul style="list-style-type: none"> • Technologies for fine particle collection and control 	<ul style="list-style-type: none"> • Reduce dust emission • Safe work environment

* Initiatives are listed in relative rank order by the participants, who attended the PA Coal Industry IOF Workshop, July 22, 2003.

In addition, there are special needs in developing innovative technologies for recovering waste coal from culm (anthracite waste coal pile) as well as exploring new product development from anthracite for future markets. These initiatives will not only provide direct benefits to state's economy but also result in restoration of abandoned mine land and cleanup of contaminated mine water (affecting rivers and lakes) in the anthracite region. Furthermore, there is an urgent need for a joint R&D program with the electric power industry to define and evaluate the specifications of coal quality meeting the requirements of future coal-based power generating systems, such as the Integrated Gasification Combined Cycle power plants.

Roadmap Area 3 - Environmental Issues

The major goal of this roadmap area is to minimize adverse environmental impacts that may result from coal production and beneficiation.

Table 7 INITIATIVES IN ENVIRONMENTAL ISSUES

Focused Initiatives*	Technology & Program Needs	Targets addressed
Develop improved methods for predicting the environmental effects of coal mining and maximizing resource recovery	<ul style="list-style-type: none"> • Integrated planning process based on coal mine geology and modeling 	<ul style="list-style-type: none"> • Maximize coal recovery • Minimize environmental impact
Develop better and cheaper methods to remediate the environmental effects of coal mining	<ul style="list-style-type: none"> • Technologies for mine land restoration and water treatment 	<ul style="list-style-type: none"> • Minimize environmental impact • Reduce costs
Develop improved methods to re-mine and reprocess coal and reclaim mine land	<ul style="list-style-type: none"> • Technologies for re-mining and reprocessing • Mine land reclamation initiative 	<ul style="list-style-type: none"> • Increase coal recovery • Restore mine land
Expand geological and terrestrial CO ₂ sequestration capabilities related to coal mining	<ul style="list-style-type: none"> • Technologies for CO₂ sequestration in un-minable coal seams, geologic formations, and on surface lands 	<ul style="list-style-type: none"> • Reduce greenhouse gas emissions • Meet zero emission goal
Develop ways to use mine water as a resource	<ul style="list-style-type: none"> • Technologies for mine water treatment and reuse 	<ul style="list-style-type: none"> • Provide new water resource • Reduce environmental impact
Actively support the development and deployment of clean coal technologies	<ul style="list-style-type: none"> • Collaboration with power generation industry, other stakeholder groups, and government 	<ul style="list-style-type: none"> • Minimize environmental impact of coal-fueled power generation
Promote collaboration and supporting resources	<ul style="list-style-type: none"> • Programs for partnership and alliances • Public education program 	<ul style="list-style-type: none"> • Establish partnerships and alliances • Increase public awareness and support

* Initiatives are listed in relative rank order by the participants, who attended the PA Coal Industry IOF Workshop, July 22, 2003.

It should be noted that the last focused initiative listed in Table 7 above is a common initiative for all roadmap areas. Indeed, to promote collaboration and garner public support are key ingredients to achieve success for PA Coal Mining Industry of the Future.

Roadmap Area 4 - Political and Economic Issues

The goals of this roadmap area are to maximize economic benefits as well as societal and political support for the coal mining industry in Pennsylvania.

Table 8 INITIATIVES IN POLITICAL AND ECONOMIC ISSUES

Focused Initiatives*	Technology & Program Needs	Targets addressed
Develop industrial, governmental and academic alliances as well as private sector partnerships focusing on the coal mining industry	<ul style="list-style-type: none"> • Programs for partnership and alliances 	<ul style="list-style-type: none"> • Establish partnership and alliances • Increase private and public support
Investigate the IOF programs of other states and their accomplishments for possible adaptation	<ul style="list-style-type: none"> • Coal mining IOF programs in neighboring states 	<ul style="list-style-type: none"> • Adoption of successful IOF program initiatives from neighboring states • Establish alliances with neighboring states
Improve the competitive position of PA coal with regard to: <ul style="list-style-type: none"> • Energy savings • Fossil fuel resources • Energy infrastructure 	<ul style="list-style-type: none"> • Management program for increasing coal production efficiency • Technologies for reducing overall cost of coal production 	<ul style="list-style-type: none"> • Reduce costs • Increase competitiveness
Characterize PA coal relative to: <ul style="list-style-type: none"> • Sustainable development • Use as an energy source for heat/electricity 	<ul style="list-style-type: none"> • Coal resource characterization • Product coal quality characterization 	<ul style="list-style-type: none"> • Sustainable development • Meet the requirements and needs of electric generation industry
Develop metrics of accountability for investment in all IOF activities, including: <ul style="list-style-type: none"> • Research expenditures • Projects • Job creation • Savings to PA • Outside investment • Mining residue commercialization, site reclamation, water resources, etc. 	<ul style="list-style-type: none"> • Program for evaluating coal mining IOF activities in terms of investment 	<ul style="list-style-type: none"> • Quantify benefits derived from investment on coal mining IOF initiatives • Assure accountability to the public

* Initiatives are listed in relative rank order by the participants, who attended the PA Coal Industry IOF Workshop, July 22, 2003.

The roadmap initiatives outlined in Tables 5, 6, 7 and 8 suggest that the use of advanced production and environmental technologies is a precondition to safer and more efficient coal mining and processing that offer higher quality coal to electric power generation and industrial customers. In addition, the coal industry must promote programs to inform the public and to strengthen its partnership with government agencies, private enterprises and academia. Cooperative alliances with the public, workers, customers, suppliers, and investors will encourage the development of a socially, economically, and environmentally sustainable coal mining industry. Together they will forge a winning strategy for the future focusing on three programmatic initiatives:

- A research and development program directed to advanced processes and technologies that simultaneously reduce the costs of production and increase the quality of product coal while minimize human health and environmental impacts and protecting its workers from hazards. Of particular importance are the advanced electric power generation systems (such as the integrated gasification combined cycle plants) that will enable near zero net emissions of greenhouse gases from coal-fired power stations.
- A strong program of public information and education to enable the public to identify the economic value of the coal mining industry as an employer and source of income to communities.
- A collaborative program involving federal, state, and local governments, and their constituencies to create a legal and regulatory system that supports more timely development of efficient and environmentally sound coal mining projects and products.

These programmatic initiatives are key components for the future of PA coal mining industry to achieve its ultimate goal of improving the public perception of coal mining to employees and the environment while making the industry productive, profitable and attractive to investors. As a consequence, the coal mining industry is sustainable in Pennsylvania.

POSTSCRIPT

The vision of Pennsylvania coal industry states: “*The Pennsylvania Coal Mining Industry develops/applies science and technology to provide cost-effective and environmentally sound options that assures sustainable use of coal and its recognition as a valuable domestic/national resource.*” A number of technology and program initiatives, as outlined in the roadmap, are required to achieve such visional goals. Furthermore, the implementation of these initiatives needs collaborative efforts through government-industry-academic partnerships and alliances.

The success of these efforts toward addressing the vision can be measured in terms of the extent toward which a particular goal is achieved. For example, Pennsylvania’s bituminous coal industry, where the rise in deep mine production has been spurred by the increased use of efficient and productive longwall mining technology, which is ideally suited for the Pittsburgh coal seam in western Pennsylvania where 6- to 8-foot seam heights and relatively good roof and floor conditions prevail, and led to production of more than 55 million tons of coal in 2002. A similar success story can be seen in the Pennsylvania anthracite coal industry in its effective use of modern coal beneficiation technologies to recover clean coal product from culm (waste anthracite), and simultaneously provide economic and environmental benefits in returning the land to productive commercial use and rivers/streams to their nature state. Indeed, historically, Pennsylvania’s coal mining industry has improved efficiency and productivity through technological changes, improved mine designs and economies of scale, which has had the added benefit of keeping coal and electricity prices relatively low for consumers and business.

In the final analysis, one of the major challenges for the Pennsylvania coal industry is the need for a concerted effort together with its electric generation and industrial customers to make the necessary investments in innovative pollution control techniques and new combustion technologies to allow continued use of coal at a competitive price and in compliance with environmental standards. Moreover, investment in clean coal technologies, with proper government and legislative incentives (such as tax credits) to encourage the installation of state-of-the-art technologies, could provide an appropriate response to the vision and goals of Pennsylvania Coal Mining Industry of the Future.

BIBLIOGRAPHY

1. "Pennsylvania Coal Data 2002," the Pennsylvania Coal Association.
2. 2003 Keystone Coal Industry Manual, published by Coal Age (a Primedia Publication).
3. "The Future Begins with Mining: A Vision of the Mining Industry of the Future," the National Mining Association and U.S. Department of Energy, September 1998.
4. "Mining Industry Roadmap for Crosscutting Technologies," the National Mining Association and U.S. Department of Energy, February 1999.
5. "Mineral Processing Technology Roadmap," the National Mining Association and U.S. Department of Energy, September 2000.
6. "Exploration and Mining Roadmap," the National Mining Association and U.S. Department of Energy, September 2002.
7. "Education Roadmap for Mining Professionals," the National Mining Association and U.S. Department of Energy, December 2000.
8. "Pennsylvania Industries of the Future: Metalcasting Roadmap Resource Document," PA-Department of Environmental Protection, 2003.
9. "Carbon Sequestration: Technology Roadmap and Program Plan," NETL, U.S. Department of Energy, March 2003.
10. "White Paper on PA-Anthracite," Duane Feagley, PA Anthracite Council, Private Communication, May 24, 2004.
11. "Mining, Processing, and Reclamation of Waste Banks," David M. Carris, John T. Boyd Co, Proceedings of the Annual International Coal Preparation Exhibition & Conference, pp 87- 95, Lexington, KY, 1996.
12. "Coal Recovery from Slurry Ponds -- Potentials and Pitfalls," Joseph Davidson, TraDet, Inc., Proceedings of the Annual International Coal Preparation Exhibition & Conference, pp 223 - 237, Lexington, KY, 1998.
13. Advanced Systems for Fine-Coal Waste Processing, Carl Maronde, U.S. Department of Energy, Proceedings of the Annual International Coal Preparation Exhibition & Conference, pp 255 - 274, Lexington, KY, 2000.

APPENDICES

APPENDIX A
CONTRIBUTORS

Mike Adamczyk
Joy Mining Machinery

George Ellis
Pennsylvania Coal Association

David Althoff
PA-Department of Environment Protection

Duane Feagley
Pennsylvania Anthracite Council

Richard A. Bajura
West Virginia University

David A. Garbacz
Joy Mining Machinery

Doug Biden
Electric Power Generation Association

Clark Harrison
CQ Inc.

Christopher J. Bise
Pennsylvania State University

Dennis G. Kundich
U.S. Steel Corporation

James W. Boyd
John T. Boyd Company

Cheryl McGill
MSHA, U.S. Department of Labor

Mike Canty
U.S. Department of Energy

Morgan "Mike" Mosser
NETL, U.S. Department of Energy

Shiao-Hung Chiang
University of Pittsburgh

Frederick G. Pohland
University of Pittsburgh

Ralph Carabetta
NETL, U.S. Department of Energy

Raja Ramani
Pennsylvania State University

Albert W. Deurbrouck
Coal Consultant

Gary Slagel
CONSOL Energy Inc.

Peter Daley
Pennsylvania House of Representatives

Michael A. Trevits
NIOSH, Dept. of Health & Human Services

Michael Eastman
NETL, U.S. Department of Energy

Richard A. Winschel
CONSOL Energy Inc.

APPENDIX B

ADVISORY BOARD MEMBERS

Mike Adamczyk
Joy Mining Machinery

George Ellis*, Chair
Pennsylvania Coal Association

David Althoff
PA-Department of Environment Protection

Duane Feagley
Pennsylvania Anthracite Council

Richard A. Bajura
West Virginia University

David A. Garbacz
Joy Mining Machinery

Doug Biden*
Electric Power Generation Association

Dennis G. Kundich
U.S. Steel Corporation

Christopher J. Bise*
Pennsylvania State University

Cheryl McGill
MSHA, U.S. Department of Labor

James W. Boyd*
John T. Boyd Company

Morgan "Mike" Mosser
NETL, U.S. Department of Energy

Ralph Carabetta
NETL, U.S. Department of Energy

Michael A. Trevits*
NIOSH, Dept. of Health & Human Services

Albert W. Deurbrouck*
Coal Consultant

Richard A. Winschel*
CONSOL Energy Inc.

* Members of Steering Committee

APPENDIX C
PA-COAL MINING IOF WORKSHOP, May 5, 2003
Alumni Hall, University of Pittsburgh, Pittsburgh, PA

Objectives

The workshop is intended to assemble participants from the coal industry, government and academia to openly share and discuss coal mine safety and productivity as well as coal beneficiation issues using innovative, energy-saving, and cost-efficient technologies and approaches to produce and utilize Pennsylvania coal in an environmentally friendly manner. In addition, issues associated with an economic and political climate conducive for sustainable future growth of the PA coal mining industry and related private enterprises will be addressed. The intended outcome is to identify a vision and roadmap for the PA coal mining industry of the future. This is an excellent opportunity for the coal mining community in the Commonwealth of Pennsylvania, particularly in the western Pennsylvania, to meet and share information and concepts that will move us forward with a common focus and direction.

Format

- The workshop will feature a Keynote Address and four different focus areas: Mine Safety & Productivity, Coal Beneficiation, Environmental Issues, and Political & Economic Issues.
- For each focus area, a formal presentation by a lead speaker will outline key topics of importance and identify candidate issues for further discussion.
- The lead presentations will be followed by four separate breakout sessions. Attendees are invited to participate in one of the facilitated breakout sessions to discuss and to suggest additional candidate focus areas for the PA Coal Mining Industry of the Future.

Agenda

07:30	Registration
08:00	Welcome and Introductions
08:10	Keynote Address: “The National DOE IOF Initiative” <i>Michael Eastman</i>
09:00	Focus Area 1 – Mine Safety & Productivity
09:30	Focus Area 2 – Coal Beneficiation
10:00	<i>Break</i>
10:30	Focus Area 3 – Environmental Issues
11:00	Focus Area 4 – Political & Economic Issues
11:40	<i>Lunch</i>
01:00	Breakout Sessions with Facilitated Discussion
	Focus Area 1 Focus Area 3
	Focus Area 2 Focus Area 4
02:30	<i>Break</i>
03:00	Breakout Session Reports and Discussion
04:00	Summary and Path Forward <i>George Ellis</i>
04:30	<i>Reception</i>

Focus Areas

Focus Area 1 – Mine Safety & Productivity

Presenter: Raja Ramani

Facilitator: Chris Bise

1. Use the recent Quecreek mine incidence as a lesson for improving mine health and safety through innovative technology development and training of mineworkers.
2. Develop accurate and complete mapping records and a geological and ground water database for active and abandoned coal mines in PA.
3. Develop through the earth/coal penetrating wireless communication equipment.
4. Develop remote (through the coal or from surface) sensing devices to evaluate presence of rolls, washouts, faults, pinch outs, old mine workings, etc.
5. Recover and use coal mine methane.

Focus Area 2 – Coal Beneficiation

Presenter: Clark Harrison

Facilitator: Al Deurbrouck

1. Develop physical techniques for removing mercury and sulfur (less than 1% S) from raw coal.
2. Develop effective dewatering technology for fine size coal.
3. Develop new technologies for beneficiation and agglomeration of fine size coal.
4. Develop improved technologies for controlling coal dust during mining, processing, storage and transporting.

Focus Area 3 – Environmental Issues

Presenter: Gary Slagel

Facilitator: Dick Winschel

1. Improve methods for understanding and predicting the long-term impacts of coal mining (particularly in terms of ground water, surface water, and subsidence), and for predicting post-mining reclamation particulars and costs, including acid mine drainage.
2. Develop inexpensive technologies/processes for remediating effects of mining (e.g., acid mine drainage, old highwalls), including low cost methods (e.g., phytoremediation) for the treatment and re-use of large volumes of water discharged from coal mines.
3. Develop techniques to reclaim coal (including re-mining) from abandoned mines, waste ponds and gob piles with simultaneous restoration of the visible environment.
4. Develop effective technology for sequestration of CO₂ in coal mines, including abandoned mines.

Focus Area 4 – Political & Economic Issues

Presenter: Peter Daley

Facilitator: Jim Boyd

1. Develop some modicum of public support for coal as a resource, which should result in political support that could then be parlayed into R&D funding.
2. Establish a State Energy Board that would facilitate research opportunities for both public and private sectors to develop and market technologies allowing coal to be used as a primary source of utility fuel.
3. Form alliances and partnerships among private enterprises, government, and academia.

PA-COAL MINING IOF WORKSHOP, July 22, 2003
Alumni Hall, University of Pittsburgh, Pittsburgh, PA

Objectives

Building on the outcome of the initial May 2003 workshop, this workshop is intended to assemble participants from the coal industry, government and academia to openly share and discuss coal mine safety and productivity as well as coal beneficiation issues using innovative, energy-saving, and cost-efficient technologies and approaches to produce and utilize Pennsylvania coal in an environmentally friendly manner. In addition, issues associated with an economic and political climate conducive for sustainable future growth of the PA coal mining industry and related private enterprises, as well as opportunities for collaboration and support, will be addressed. This is an excellent opportunity for the coal mining community in the Commonwealth of Pennsylvania, particularly in western Pennsylvania, to again meet and contribute to the development of a vision and roadmap for the PA-Coal Mining Industry of the Future.

Format

- The workshop will feature a Keynote Address, a proposed vision and four different roadmap development areas: Mine Safety & Productivity, Coal Beneficiation, Environmental Issues, and Political & Economic Issues.
- For each roadmap area, a review of the current status will be presented by an area leader to outline key topics for further discussion and final development.
- Each review will be followed by open discussion among the attendees. A summary and conclusions will enable the preparation of a final vision and roadmap for the PA-Coal Mining Industry of the Future.

Agenda

08:30	Registration	
09:00	Welcome and Introductions	<i>Fred Pohland</i>
09:10	Keynote Address	<i>Mike Canty</i>
	<i>“The National DOE IOF Initiative- An Update”</i>	
10:00	<i>Break</i>	
10:30	Vision for PA-Coal Mining IOF	<i>George Ellis</i>
11:00	Roadmap Development	<i>Shiao Chiang</i>
11:40	<i>Lunch</i>	
01:00	Roadmap Area 1	<i>Chris Bise</i>
01:30	Roadmap Area 2	<i>Al Deurbrouck</i>
02:00	Roadmap Area 3	<i>Dick Winschel</i>
02:30	Roadmap Area 4	<i>Jim Boyd</i>
03:00	<i>Break</i>	
03:30	Summary and Conclusions	<i>George Ellis</i>
04:00	<i>Reception</i>	

Roadmap Development Areas

Roadmap Area 1 – Mine Safety & Productivity

1. Provide training innovations to improve and link safety and productivity, including orientation programs for new miners and high technology maintenance.
2. Develop mine communication systems designed to enhance efficiency.
3. Develop technology to locate and identify geological and man-made problems.
4. Develop multiple-seam mining technology.
5. Develop effective methane recovery systems.
6. Integrate cost-effectiveness into each initiative.
7. Promote collaboration and supporting resources.

Roadmap Area 2 – Coal Beneficiation

1. Determine the effects of beneficiation on trace elements, including mercury, and their disposition in coal cleaning plant refuse and power plant ash.
2. Determine the fuel-related costs of operation and maintenance of PA's coal-fired power plants.
3. Develop new technologies for beneficiation, dewatering and reconstitution of fine size coal.
4. Develop effective clay removable technology for beneficiation and waste disposal.
5. Develop improved technology for controlling dust during cleaning, processing, storage and transportation.
6. Promote collaboration and supporting resources.

Roadmap Area 3 – Environmental Issues

1. Improve methods for predicting effects of coal mining and maximizing resource recovery.
2. Develop better and cheaper methods to remediate effects of mining.
3. Enhance re-mining techniques to reclaim coal.
4. Expand CO₂ sequestration capabilities.
5. Promote collaboration and supporting resources.

Roadmap Area 4 – Political & Economic Issues

1. Develop industrial and academic alliances and partnerships focusing on the coal mining industry.
2. Investigate the IOF programs of other states and their accomplishments for possible adaptation. Improve the competitive position of PA coal with regard to: (a) Energy savings, (b) Fossil fuel resources and (c) Energy infrastructure.
3. Characterize PA coal relative to: (a) Sustainable development, (b) Use as an energy source for heat/electricity.
4. Develop metrics of accountability for investment in all IOF activities, including: (a) Research expenditures, (b) Projects, (c) Job creation, (d) Savings to PA, (d) Outside investment, and (e) Mining residue commercialization, site reclamation, water resources, etc.

APPENDIX D PA COAL MINING INDUSTRY RESOURCES

Organizations

United States Mine Rescue Association	www.usmra.com
American Coal Foundation	www.acf-coal.org
FORCE – Families Organized to Represent the Coal Economy	www.families4coal.com
National Mining Association	www.nma.org
SME - Society of Mining, Metallurgy and Exploration	www.smenet.org/
Northwest Mining Association	www.nwma.org/
Kentucky Coal Association	www.kentuckycoal.org
Ohio Coal Association	www.ohiocoal.com
Ohio Mining & Reclamation Association	www.omra.org
Utah Mining Association	www.utahmining.org
Wyoming Mining Association	www.tcd.net/~wma/
Nevada Division of Minerals	www.minerals.state.nv.us/
Nevada Mining Association	www.nevadamining.org/
New Mexico Bureau of Mines and Mineral Resources	www.geoinfo.nmt.edu/
PCMA Pittsburgh Coal Mining Institute of America	www.miningorganizations.org/pcmia.htm

Government

DOE, Office of Fossil Energy	www.fossil.energy.gov/
Official Energy Statistics from the U.S. Government, DOE	www.eia.doe.gov/indexnjava.html
USGS, the energy resources program	www.energy.usgs.gov/coal.html
Federal Mine Health and Safety Administration, U.S. Dept. of Labor	www.msha.gov
Federal Office of Surface Mining	www.osmre.gov/osm.htm
Coal Mining in Pennsylvania	www.dep.state.pa.us/dep/deputate/enved/go_with_inspector/coalmine/Coal_Mining_in_Pennsylvania.htm
The Pennsylvania Bureau of Deep Mine Safety	www.dep.state.pa.us/dep/deputate/minres/dms/dms.htm
West Virginia Division of Environmental Protection	www.dep.state.wv.us
West Virginia Geological and Economic Survey	www.wvgs.wvnet.edu
WV Office of Miners' Health, Safety & Training	www.state.wv.us/mhst

Foundations & Societies

American Coal Foundation – Educational	www.teachcoal.org
COAL: Ancient Gift Serving Modern Man	www.ket.org/Trips/Coal/AGSMM/AGSMMtoc.html
Geological Society of America	www.geosociety.org
Kentucky Mining Institute	www.miningusa.com/kmi/default.htm
Global Climate Coalition	www.globalclimate.org/
Mine Safety Institute of America	www.miningorganizations.org/
National Mine Rescue Association	www.miningorganizations.org/nmra.htm
Coal Age	www.coalage.com

Universities (Mining related programs)

The School of Mineral Engineering, University of Alaska Fairbanks	www.uaf.edu/sme/
Department of Mining & Geological Engineering, University of Arizona	www.mge.arizona.edu
Mining Engineering Department, Colorado School of Mines	www.mines.edu/academic/mining
Materials Science and Engineering Department, University of Idaho	www.webs1.uidaho.edu/mse/
Mining Engineering Department, University of Kentucky	www.engr.uky.edu
Dept. of Geological Engineering & Sciences, Michigan Technological University	www.geo.mtu.edu
University of Missouri-Rolla	www.umn.edu
The School of Mines and Engineering, Montana Tech of University of Montana	www.mtech.edu/sme/
Department of Mining Engineering, University of Nevada, Reno	www.unr.edu/mines/mlc/
South Dakota School of Mines and Technology	www.sdsmt.edu
Mining & Mineral Resources Engineering, Southern Illinois University	www.howard.engr.siu.edu/mining
Department of Mining Engineering, University of Utah	www.mines.utah.edu
Department of Mining & Minerals Engineering, Virginia Tech	www.mining.vt.edu/
The Department of Mining Engineering, West Virginia University	www.wvu.edu/~minengin/

Others

Coal Association of Canada	www.coal.ca
Natural Resources Canada, Minerals and Metals Section	www.nrcan.gc.ca/mms/
The Mining Association of Canada	www.mining.ca/index.htm

APPENDIX E
PA STATE AGENCIES FOR COAL MINING

<p>State Regulatory Authority</p>	<p>Joseph G. Pizarchik, Director Bureau of Mining and Reclamation P.O. Box 8461 Harrisburg, PA 17105 (717) 787-5103, Fax: (717) 783-4675 E-Mail: jpizarchik@state.pa.us</p> <p><i>Grants Contact</i> Lou DiLissio E-mail: ldilizzo@state.pa.us</p>
<p>Abandoned Mine Land Reclamation Program</p>	<p>Roderick Fletcher, Director Bureau of Abandoned Mine Reclamation Department of Environmental Protection P.O. Box 8476 Harrisburg, PA 17105-8476 (717) 783-2267, Fax: (717) 783-7442 E-mail: rfletcher@state.pa.us</p> <p><i>Grants Contact</i> Patricia Willow E-mail: pwillow@state.pa.us</p>
<p>Office of Surface Mining:</p>	
<p>1. Appalachian Regional Coordinating Center</p>	<p>Brent Wahlquist, Regional Director Three Parkway Center Pittsburgh, PA 15220 (412) 937-2828 E-mail: bwahlqui@osmre.gov</p>
<p>2. Harrisburg Office</p> <ul style="list-style-type: none"> • Johnstown Area Office • Branch of Anthracite 	<p>George J. Rieger, Division Chief Pittsburgh Field Division Harrisburg Transportation Center 415 Market Street, Suite 3C Harrisburg, PA 17101 (717) 782-4036, Fax: (717) 782-3771 E-Mail: grieger@osmre.gov</p> <p><i>Grants Contact</i> Sheila Hartless E-mail: shartles@osmre.gov (412) 937-2888</p> <p>Joe Geissinger, Area Office Manager Richland Professional Bldg. 334 Bloomfield Street, Suite 104 Johnstown, PA 15904 (814) 533-4227, Fax: (814) 533-4383 E-mail: jgissing@osmre.gov</p> <p>Michael Kuhns, Supervisory General Engineer The Stegmaier Bldg. 7 North Wilkes-Barre Blvd., Suite 308 Wilkes-Barre, PA 18701-5293 (570) 830-1403, Fax: (570) 830-1421 E-Mail: mkuhns@osmre.gov</p>

APPENDIX F
PA COAL MINING INDUSTRY DATABASE

SOURCE CODE	ORGANIZATION	SOURCE CODE	ORGANIZATION
A ¹	ANTHRACITE	AB ¹	ANTHRACITE AND BITUMINOUS
AS ²	ASSOCIATES	B ^{1,5}	BITUMINOUS
C ²	CONTRACTOR	E ³	EQUIPMENT MANUFACTURERS
MT ⁴	MANUFACTURERS AND TRANSPORTERS	P ²	PRODUCERS
U ^{1,3}	UNIVERSITY		

References:

1. 2003 Keystone Coal Industry Manual, Coal Age.
2. Pennsylvania Coal Data 2002, Pennsylvania Coal Association.
3. Cheryl McGill, MSHA, Department of Labor, Private communication.
4. James W. Boyd, John T. Boyd Company, Private communication.
5. Tiffany O'Neill, IOF Coordinator, Lehigh University, Private communication

COMPANY	ADDRESS	City	STATE	ZIP	SOURCE CODE
18 KARAT INC	211 MITCHELL ROAD	EIGHTY-FOUR	PA	15330	C
3H MINING SUBSIDIARY OF IRWIN CAR AND EQUIPMENT	P.O. BOX 409	IRWIN	PA	15642	C
549 LEASING CO INC	RD #6 BOX 231	KITTANNING	PA	16201	C
84 WARMCO	P.O. BOX 4531	EIGHTY-FOUR	PA	15330	C
A & D WELL, INC.	RR 4, BOX 175	PHILIPSBURG	PA	16866	C
A & J EXCAVATING	RD #1 BOX 15362	SPRAGGS	PA	15362	C
A C DELLOVADE INC.	108 CAVASINA DR.	CANONSBURG	PA	15317	C
A J FRENO MINING CO	RD # 1 BOX 91	GLEN CAMPBELL	PA	15742	C
A J TRUNZO INC	8013 BETHLEHEM-BATH PIKE	BATH	PA	18014	C
A LEGRAND	RR1 BOX 570	HOUTZDALE	PA	16651	C
A W LONG COAL COMPANY	1203 PRESCILE STREET	PHILIPSBURG	PA	16866	C
A.C.COY	400 TECHNOLOGY DRIVE	CANONSBURG	PA	15317	C
ABEL PUMPS CORP	79 N. INDUSTRIAL PARK	SEWICKLY	PA	15143	C
ACCENT FUELS INC.	38 GRANT STREET, BOX 49	HOMER CITY	PA	15748	C
ACCU-TEMP INC	4024 MT. ROYAL BLVD.	ALLISON PARK	PA	15101	C
ACME MACHINE AND WELDING CO	BOX 351	PUNXSUTAWNEY	PA	15767	C
ACTION MINING, INC.	1117 SHAW MINES ROAD	MEYERSDALE	PA	15552-7228	AB, P
ACV POWER CORP	P O BOX 402	EMLENTON	PA	16373	C
ADAMS TRUCKING	2328 FIELDSTONE AVE	SUMMERHILL	PA	15958	C
ADAMSON CONTRACTING	BOX 229 HONORS ST	LONG BRANCH	PA	15423	C
ADVANCED CUTTING SYSTEMS CORP	P.O. BOX 126	WINBER	PA	15963	C
ADVANCED MINING TECHNOLOGY INC	295 MEADOWLANDS BLVD	WASHINGTON	PA	15301	E
AGWAY ENERGY	357 OLD ROUTE 119 SOUTH	INDIANA	PA	15701	C
AIR TECHNOLOGIES	1110 PARKWAY VIEW DRIVE	PITTSBURGH	PA	15025	C
AKENS ENGINEERING ASSOCIATES	219 EAST MAIN STREET	SHIREMANSTOWN	PA	17011	AS
AL HAMILTON CONTRACTING	R. D. #1, BOX 87	WOODLAND	PA	16881	AB, P
ALBARELL ELECTRIC INC	PO BOX 799	BETHLEHEM	PA	18016	C
ALBERT SORBELLI	176 A MAIN ST RT 10	WILKES BARRE	PA	18702	C
ALL AROUND FENCE CO	PO BOX 1126	UNION TOWN	PA	15401	C

ALLEGHENY BELTING, INC	BOX 491, APT. 1, JAPP ROAD	SUMMERHILL	PA	15958	C
ALLEGHENY ENERGY	800 N. THIRD ST., SUITE 200	HARRISBURG	PA	17102	AS
ALLEGHENY FENCE CONSTRUCTION COMPANY, INC.	4301 IRVINE STREET	PITTSBURGH	PA	15207	C
ALLEGHENY POWER	800 CABIN HILL DRIVE	GREENSBURG	PA	15601	C
ALLEGHENY VALLEY RESOURCES	623 W WALDHEIM RD	PITTSBURGH	PA	15215	C
ALLEN LEIPCHACK	124 ROBIN STREET	CAIRNBROOK	PA	15924	C
ALLSTATE CONTRACTING	3191 WASHINGTON PIKE	BRIDGEVILLE	PA	15017	C
ALMEGA COMPANY INC	1337 MCLAUGHLIN RUN RD	PITTSBURGH	PA	15241	C
AL'S WATER SERVICE	2699 JEFFERSON AVENUE	WASHINGTON	PA	15301	C
AMBROSIA COAL & CONST COMPANY	RURAL DELIVERY #1	EDINBURG	PA	16116	C
AMD INDUSTRIES INC	PO BOX 501	CALIFORNIA	PA	15419	C
AMERICAN ASBESTOS CONTROL CO	60 PROGRESS AVE	CRANBERRY TWP	PA	16066	C
AMERICAN CONTRACTING ENT. INC.	3613 CALIFORNIA AVENUE	PITTSBURGH	PA	15212	C
AMERICAN DEMCO INC	200 BURST ROAD	IRWIN	PA	15642	C
AMERICAN DRILLING	1498 SHOEMAKER STREET	NANTY-GLO	PA	15943	C
AMERICAN LONGWALL ROOF SUPPORT	177 THORN HILL ROAD	WARRENDALE	PA	15086	C
AMERICAN MINING INSURANCE CO.	P. O. BOX 217	JOHNSTOWN	PA	15907-0217	AS
AMERICOM INC	1830 STOLTZ ROAD	LIBRARY	PA	15129	C
AMERIKOHL MINING, INC.	202 SUNSET DRIVE	BUTLER	PA	16001	AB, P
AM-GARD INC.	600 MAIN STREET	PITTSBURGH	PA	15215-2206	C
AMP CONTROL	RD1 BOX 213-A SIGSBEE RD.	GREENSBORO	PA	15338	E
ANDERSON EQUIPMENT CO.	PO BOX 339 1000 WASHINGTON PKE	BRIDGEVILLE	PA	15017	C, AS
ANDRULONI'S TRUCKING COMPANY	RR3, BOX 96	TROY	PA	16947	C
ANGELO MATZ JR	REAR 356 MAIN ST	LATTIMER MINE	PA	18234	C
ANITA MINING CO.	R.R. # 3 BOX 248	REYNOLDSVILLE	PA	15851	E
ANNA'S LUMBER	1007 MAIN STREET	PATTON	PA	16668	C
ANTHRACITE WELDING & FABRICATI	PO BOX 187	SUMMIT HILL	PA	18250	C
APEX HYDRAULIC AND MACHINE, INC.	511 BRISBIN STREET	HOUTZDALE	PA	16651	C
APOLLO CONSTRUCTION CO	P.O. BOX 98	BURGETTSTN	PA	15021	C
A-POSITIVE ELECTRIC CO INC	1953 SMITH TOWNSHIP STATE RD	SLOVAN	PA	15078	C
APPLE TRACTOR INC	P O BOX 223	BROCKWAY	PA	15824	C
APPLEGATE SERVICES, INC.	P.O. BOX 368	ELDERTON	PA	15736	A, C
APPLIED COATINGS	P O BOX 1347	MCMURRAY	PA	15317	C
ARCADIA CONTROL INC	392 PLAINS CHURCH ROAD	CRANBERRY TWP	PA	16066	C
ARIPPA	1802 MARKET ST., 1ST FLOOR	CAMP HILL	PA	17011	AS
ASHLAND DIESEL ENGINES INC	32 LEHIGH STREET	ASHLAND	PA	17921	C

ASSORTED AIR SERVICES	P.O. BOX 50	CLARKSBURG	PA	15725	C
ATCHINSON ELECTRIC	434 WATER STREET	ROCKWOOD	PA	15557	C
ATLAS POWDER CO	BOX 271	TAMAQUA	PA	18252	E
ATLAS SERVICES CORP.	1600 ROUTE 136	WASHINGTON	PA	15301-3194	AS
ATLEE PETERS REPAIR	RD 1 BOX 494	OLANTA	PA	16863	C
AYP CAPITAL INC	800 CABIN HILL DR	GREENSBURG	PA	15601	C
B & B PAINTING CO	PO BOX 287	CARMICHAELS	PA	15320	C
B & F BELT SERVICIES CORP	PO BOX 741	FREDRICK TOWN	PA	15333	C
B & L TRUCKING	PO BOX 945	UNIONTOWN	PA	15401	C
B & M AUGERING INC	PO BOX 176	MARION CENTER	PA	15759	C
BAKER'S PLUMBING & HEATING	725 SIPESVILLE ROAD	SIPESVILLE	PA	15561	C
BALCO INCORPORATED	P.O. BOX 56	BLAIRSVILLE	PA	15717	E
BARAKAT ASSOCIATES LTD	617 ALTAMONT BLVD	FRACKVILLE	PA	17931	C
BARBUSCHAK EXCAVATING	132 ALGONQUIN PATH	STOYSTOWN	PA	15563	C
BARR WHOLESALE	R.D. 2, BOX 457	DUBOIS	PA	15801	C
BARRETT TRUCKING	R.D. 1, BOX 27	DAYTON	PA	16222	C
BASIC SERVICES INC	127 ONEIDA VALLEY RD	BUTLER	PA	16001	C
BAXTER TRUCKING INC	RR #1 BOX 561	HOUTZDALE	PA	16651	C
BEAR RIDGE MACHINE & FAB INC	10 ELEANOR AVE	FRACKVILLE	PA	17931	C
BEARD TECHNOLOGIES, INC.	355 WILLIAM PITT WAY	PITTSBURGH	PA	15238	C
BECKWITH MACHINERY CO	PO BOX 8718	PITTSBURGH	PA	15221	C
BECKWITH MACHINERY CO	4565 WILLIAM PENN HIGHWAY	MURRYSVILLE	PA	15668	C, AS
BEDROCK STONE AND STUFF	3065 BERNE RD	HAMBURG	PA	19526	C
BEILCHICK BROTHERS COAL MINING	P. O. BOX 7	HEILWOOD	PA	15745	AB
BENSHAW INC	1659 EAST SUTTER ROAD	GLENSHAW	PA	15116	C
BENTLEY DEVELOPMENT CO INC	OLD ROUTE 22 SERELL IND PARK	BLAIRSVILLE	PA	15717	C
BERNADETTE HIMMEL	110 FARMHOUSE LANE	CARROLLTOWN	PA	15722	C
BERTHOLD SYSTEMS INC	HOPEWELL BUSINESS PARK	ALIQUIPPA	PA	15001	C
BETHENERGY MINES INC.	ROOM 1723, MARTIN TOWER	BETHLEHEM	PA	18016-7699	B, P
BETHLEHEM STEEL CORP	MARTIN TOWER, ROOM 1723	BETHLEHEM	PA	18016	A
BG TRUCKING	PO BOX 313	BOBTOWN	PA	15315	C
BIG MACK LEASING CO., INC.	R.D. 6, BOX 231	KITTANNING	PA	16201	C
BILLET ELECTRIC	R.D. 1, BOX 113	PUNXSUTAWNEY	PA	15767	C
BILLS SERVICE CO	RR #1 BOX 5	KNOX	PA	16232	C
BILLYN CORP.	RD #1 BOX 144	GRAYSVILLE	PA	15337	C
BINOTTO CONTRACTING	608 EAST MCMURRAY ROAD, SUITE 208	MCMURRAY	PA	15317	C
BJ SERVICES COMPANY	PENN CENTER W IV, STE 102	PITTSBURGH	PA	15276	C

BLACK ARROW & POWDER SPORTS	106 MAIN ST., BOX 121	STARFORD	PA	15777	E
BLACK DIAMOND COAL	P.O. BOX 139	ELYSBURG	PA	17824	A
BLACK HAWK MINING INC	RD #1 BOX 196	RURAL VALLEY	PA	16249	C
BLACK MOUNTAIN, INC.	212 STATE STREET	BELLE VERNON	PA	15012	C
BLACK WOLF COAL COMPANY, INC.	P. O. BOX 240	FRIEDENS	PA	15541	C, AS
BLASCHAK COAL CORP.	P.O.BOX 12	MAHANOEY CITY	PA	17948	A
BLISS RECLAMATION CO.	R.D. #2, BOX 278A	RIMERSBURG	PA	16248	C
BLOOMING GROVE SAND & GRAVEL	409 STOCK FARM RD	LAKE ARIEL	PA	18436	C
BNF POWERLINE CONSTRUCTION INC.	750 GROVE STREET	ROARING SPRING	PA	16673	C
BOB BAXTER WELDING INC	405 W PRESQUEISLE ST	PHILLIPSBURG	PA	16866	C
BOB FRITZ ELECTRICAL	475 PHINEYVILLE ROAD	RINGTOWN	PA	17967	C
BOBS WELDING CO	RR 1 BOX 571-A	HOUTZDALE	PA	16651	C
BOLOGNA MINING CO	BOX 309	BURGETTSTOWN	PA	15021	C
BOSCH REXROTH CORPORATION	REXROTH WORLDWIDE HYDRS. GROUP, 2315 CITY LINE ROAD	BETHLEHEM	PA	18017	E
BOVARD PROCESSING INC	172 TWOLICK DR	INDIANA	PA	15701	C
BOWSER PRECISION COMPANY	RD 1 BOX 248	MAHAFFEY	PA	15757	C
BRADFORD COAL CO., INC.	P. O. BOX 368	BIGLER	PA	16825	A, P
BRADIGAN'S INC.	P.O. BOX 995	KITTANNING	PA	16201	C
BRINK TRANSPORTATION INC	RR1 BOX 316H	HOUTZDALE	PA	16651	C
BRITT RESOURCES, INC.	P. O. BOX 515	INDIANA	PA	15701	AS
BROAD MOUNTAIN PARTNERS	40 ELEANOR AVE	FRACKVILLE	PA	17931	C
BROADWATER & BENDER CONTRACTIN	558 MAIN ST	ADDISON	PA	15411	C
BROOKS SYSTEM CORPORATION	PO BOX 20384	LEHIGH VALLEY	PA	18002	C
BROSH TRUCKING	1151 W. MONTGOMERY STREET	COAL TOWNSHIP	PA	17866	C
BROSKY TRUCKING & STORAGE	119 SOUTH BRADY STREET	DUBOIS	PA	15801	C
BRUCE W TRENT TRUCKING	1795 STOYSTOWN RD	FRIEDENS	PA	15541	C
BRYD YEANY SEEDING & MULCHING	5721 ROUTE 28	MAYPORT	PA	16240	C
BUCHANAN INGERSOLL, P.C.	ONE OXFORD CENTRE, 301 GRANT STREET, 20TH FLOOR	PITTSBURGH	PA	15219- 1410	AS
BUD DAVIS TRUCKING	6592 RT 119 HWY S	BLAIRSVILLE	PA	15717	C
BUDD SCALE INC	P.O.BOX 903	UNIONTOWN	PA	15401	C
BULLERS WELDING SERVICE	RD 2	MAYPORT	PA	16240	C
BURCH MATERIALS CO.	685 KROMER AVE	BERWYN	PA	19312	A
C & E BIT CO	876 LAKE SHORE RD	FRIEDENS	PA	15541	C
C & I BOILER REPAIR INC	321 WINTERS LANE	MONTOURSVILLE	PA	17754	C
C & T STEAM CLEANING	R.D. #5, BOX 31-D	PUNXSUTAWNEY	PA	15767	C

C B E INC	2652 HIDDEN VALLEY, STE 103	PITTSBURGH	PA	15241	C
C C C AUGERING INC.	PO BOX 176	MARION CENTER	PA	15759	C
C G HONIKER TRUCKING	RD 1, BOX 717	COAL TOWNSHIP	PA	17866	C
C H C HAULING	3014 QUAKAKE RD	WEATHERLY	PA	18255	C
C H STEMPEL WELDING	RD 1 BOX 211	TOWANDA	PA	18848	C
C&J WELDING AND CONSTRUCTION	R.D. #1, BOX 498	MCCLELLANDTOWN	PA	15458	C
C.L.I. PROFESSIONAL AND TECHNICAL SERVICES	P O BOX 47	HOMER CITY	PA	15748	C
C.R. WELDING & REPAIR	P.O. BOX 106	LUTHERSBURG	PA	15848-0106	C
C.T. & SONS TRUCKING	100 PRINGLE ROAD	SMITHFIELD	PA	15478	C
CAB AIR CONDITIONING INC	P O BOX 319	BROOKVILLE	PA	15825	C
CALVIN SHILLING	BOX 10	DISTANT	PA	16223	C
CAMBER CORPORATION	602 MCKNIGHT PARK DRIVE	PITTSBURGH	PA	15237	MT
CAMBRIA SYSTEMS INC	P.O. BOX 314	SIDMAN	PA	15955	C
CANTERBURY COAL COMPANY	ROUTE 1, BOX 119	AVONMORE	PA	15618	E
CARBEX COAL COMPANY	P. O. BOX 270	JENNERSTOWN	PA	15547	E
CARBON RESOURCES INC	P O BOX 1512	MCMURRAY	PA	15317	C
CARBONITE FILTER	P.O. BOX 1	DELANO	PA	18220	A
CARLSON HAULING	RD 2 BOX 502	BROCKWAY	PA	15824	C
CARNAHAN'S REPAIR SERVICE	P.O. BOX 141	SHELOCTA	PA	15774	C
CARNEGIE MELLON UNIVERSITY	5000 FORBES AVENUE	PITTSBURGH	PA	15213	U
CAROL GIOVANNELLI	848 PARK STREET	BROCKWAY	PA	15824	C
CARTER TRUCKING	55 LOOMIS ST	NANTICOKE	PA	18634	C
CASEY TRUCKING CO	1353 CHESTNUT ST	KULPMONT	PA	17834	C
CAST & BAKER CORPORATION	2214 ROUTE 19	CANONSBURG	PA	15317	C
CATTRON INC	58 W SHENANGO ST	SHARPSVILLE	PA	16150	C
CATTRON INCORPORATED	29 NORTH SECOND STREET	SHARPSVILLE	PA	16150	E
CCTV TECHNOLOGY	P.O. BOX 13448	PITTSBURGH	PA	15243	C
CENTIN CORP	120 N LIME ST	LANCASTER	PA	17602	C
CENTRAL CAB CO.	155 INDUSTRY ROAD	WAYNESBURG	PA	15370	C
CENTRAL CAMBRIA DRILLING CO	P.O.BOX 207	EDENSBURG	PA	15931	C
CENTRALIA COAL SALES	P.O. BOX 478	WILKES BARRE	PA	18703	A
CENTRE COMMUNICATIONS, INCORPORATED	P.O. BOX 119	BELLFONTE	PA	16823	C
CENTRE DRILLING INC	PO BOX 525	PHILLIPSBURG	PA	16866	C
CERULLO, DATTE, WALLBILLICH, PC	450 WEST MARKET STREET	POTTSVILLE	PA	17901	A
CHAMPION MINE SUPPLY	PO BOX 550	CHAMPION	PA	15622	C
CHARLES J. MERLO, INC	R.D. 1, BOX 88A	MINERAL POINT	PA	15942	C
CHARLES MEYERS REPAIR	3465 WATER LEVEL ROAD	SOMERSET	PA	15501	C

CHARLES ROSS REPAIR	RD 1 BOX 434 A	CURWENSVILLE	PA	16833	C
CHARLES TOOL & SUPPLY, INC.	18783 PAINT BOULEVARD	SHIPPENVILLE	PA	16254	C
CHEB-GLADDEN ENTERPRISES	510 MILLERS RUN ROAD	MORGAN	PA	15064	C
CHESS COAL CO.	RD. 1	SMITHFIELD	PA	15478	AB
CHRISTOFF OILCO INC	P O BOX 186	HOUTZDALE	PA	16651	C
CHRISTOPHER BACKHOE & PLUMBIN	210 EAST GEORGE ST	CARMICHAELS	PA	15320	C
CINDY COONEY TRUCKING	P.O. BOX 246	CRESSON	PA	16630	C
CIVIL MINING ENVIRONMENTAL ENGINEERING, INC.	165 E. UNION STREET, SUITE 100	SOMERSET	PA	15501	AS
CLASSIC SCRAPER CORPORATION	P.O. BOX 129, 197 CONENAUGH STREET	BLAIRSVILLE	PA	15717	C
CLEVELAND BROS. EQUIP. CO.,INC.	P. O. BOX 2535	HARRISBURG	PA	17105	A, AS
CLEVELAND BROTHERS, INC.	P.O. BOX 1132	WILKES BARRE	PA	18703	A
CLINGER WELDING	R.D. 1, BOX 357	BROOKVILLE	PA	15825	C
COAL CENTRIFUGE SERVICE	700 OLD STATE ROAD	APOLLO	PA	15613	C
COAL CLEAN CONSULTING INC.	25 HIGHLAND PARK ESTATES	SHELOCTA	PA	15774	C
COAL CONTRACTORS	P.O. BOX 2145	FERN GLEN	PA	18241	A
COAL CONTRACTORS INC	P O BOX 639	NUREMBERG	PA	18241	C
COAL LOADERS, INC.	210 EAST MAIN STREET	LIGONIER	PA	15658	C
COBALT PROFESSIONAL SERVICES, INC.	150 VALLEY ROAD	EIGHTY-FOUR	PA	15330	C
COFFMAN TRUCKING	BOX 281	CONNELLSVILLE	PA	15425	C
COLWELL TRUCKING CO.	R.D. 2, BOX 240, DEANVILLE ROAD	NEW BETHLEHEM	PA	16242	C
COMPLETE COMPUTER SOLUTIONS	303 ROBINSON ROAD	IMPERIAL	PA	15126	C
CONTROL CORP.	PO BOX 306 PENNSYLVANIA AVE.	IRWIN	PA	15642	E
CONFLOW INC	270 MEADOW LANDS BLVD	WASHINGTON	PA	15301	C
CONSOL ENERGY INC.	1800 WASHINGTON ROAD	PITTSBURGH	PA	15241	AB, P
CONSOL PENNSYLVANIA COAL CO.	322 ENON CHURCH RD.	WEAT FINLEY	PA	15377	AB
CONSOLIDATION COAL COMPANY	COAL SHARED SERVICES,4000 BROWNSVILLE ROAD	SOUTH PARK	PA	15129	E
CONSPEC CONTROLS INC	6 GUTTMAN BLVD	CHARLEROI	PA	15022	C, E
CONSTRUCTION MATERIALS TESTING SERVICES, INC.	423 MCNEILLY ROAD READ	PITTSBURGH	PA	15226	C
CONTI TESTING LABORATORIES, INC.	3190 INDUSTRIAL BOULEVARD	BETHEL PARK	PA	15102	C
CONTRACT TRAINER	BOX 33	NINEVEH	PA	15353	C
CONVEYOR SERVICES CORPORATION	PO BOX 129	BLAIRSVILLE	PA	15717	C
CONVEYOR SPECIALITIES INC.	23 SOMERSET AVENUE	BENTLEYVILLE	PA	15314	C
COOK TRUCKING CO	PO BOX 363	WORTHINGTON	PA	16262	C
COONEY BROS. COAL CO.	1207 4TH ST., P.O. BOX 246	CRESSON	PA	16630	AB, P

CORDAN LABORATORIES, INC.	BOX 541	SPANGLER	PA	15775	C
CORPORATE SECURITY INC	P O BOX 5347	JOHNSTOWN	PA	15904	C
COUNTY HAULING CORP.	900 TYROL BLVD.	BELLE VERNON	PA	15012	C
COUNTY NATIONAL BANK	P. O. BOX 42	CLEARFIELD	PA	16830-0042	AS
CPS CENTER PENN SERVICE	P O BOX 178	BELLEFONTE	PA	16823	C
CQ INC	160 QUALITY CENTER RD	HOMER CITY	PA	15748	AS, C
CRANE PRO SERVICES	109 THIRD STREET - SUITE C	LEETSDALE	PA	15056	C
CRH CATERING CO.	1600 MORRELL AVENUE	CONNELLSVILLE	PA	15425	C
CROWN MOBILE SYSTEMS	22 MCCORMICK ROAD	MCKEES ROCKS	PA	15136	C
CRYSTAL SOUND SYSTEMS INC	505 VALLEYBROOK ROAD	MCMURRAY	PA	15317	C
CHEMICAL SERVICE ENGRS. INC.	600 SECO RD.	MONROEVILLE	PA	15146	AS, E
CUMMINS INTERSTATE POWER INC.	3 ALPHA DRIVE	PITTSBURGH	PA	15238-2901	AS
CUMMINS POWER SYSTEMS, INC.	2727 FORD ROAD	BRISTOL	PA	19007	AS
CYPRUS CUMBERLAND RESOURCES	R.D. 3, BOX 184	WAYNESBURG	PA	15370	E
CYPRUS EMERALD RESOURCES CORP.	RT 218 SOUTH, P.O. BOX 871	WAYNESBURG	PA	15370	E
D C GUELICH EXPLOSIVE CO	RD 3 BOX 125A	CLEARFIELD	PA	16830	C
D L PETERS ELECTRICAL CONTRACT	RD #1 BOX 246-A	WOODLAND	PA	16881	C
D R SERVICE CO	RR 1 BOX 427 A	CURWENSVILLE	PA	16833	C
D. HILLIARD & SON TRUCKING	200 ROCKS RD.	PARKER	PA	16049	C
D.C. GUELICH EXPLOSIVES CO.	R. D. #3, BOX 125A	CLEARFIELD	PA	16830	AS
DALMATION FIRE PROTECTION CO	3114 CAPITAL ST	WHITE OAK	PA	15131	C
DAMON INDUSTRIAL SERVICES INC	P O BOX 486	E. BRADY	PA	16028	C
DAN RIEG WELDING	812 COLUMBIA STREET	LORETTA	PA	15940	C
D'APPOLONIA	275 CENTER ROAD	MONROEVILLE	PA	15146	C
DARK DIAMOND INC	623 W WALDHEIM RD	PITTSBURGH	PA	15215	C
DAVE'S HIGH PRESSURE CLEANING	RD 3 BOX 163	PHILIPSBURG	PA	16866	C
DAVID BREEDEN ENTERPRISES INC.	151 W FOURTH AVE.	TARENTUM	PA	15084	B
DAVID MILLARD TRUCKING	266 SCHIESTLE RD.	MERCER	PA	16137	C
DAVID POWELL TRUCKING	HC 60, BOX 10	OLIVEBURG	PA	15764	C
DAVID TESONE TRUCKING INC	5374 WILLIAM FLYNN HWY	GIBSONIA	PA	15044	C
DAVID W FANNICK ELECT. CONTR	4 N 4TH ST PO BOX 193	FRACKVILLE	PA	17931	C
DAVIS & SONS GEN CONTRACTING	P.O. BOX 10	SPRAGGS	PA	15362	C
DAVIS BROS HEATING & AIR COND	1075 WATER ST	INDIANA	PA	15701	C
DBT AMERICA INC.	2045 WEST PIKE STREET	CANONSBURG	PA	15317	E, MT
DCN MECHANICAL SERVICES	125 SUMNEY ROAD	BENTLEYVILLE	PA	15314	C
DEBALDO BROTHERS INC.	HARTS RUN ROAD	GLENSHAW	PA	15116	C

DEBCO DRILLING CO	RD 3 BOX 125A	CLEARFIELD	PA	16830	C
DECHMAN REPAIR SERVICE	1365 YANKEE HILL ROAD	BLAIRSVILLE	PA	15717	C
DELTA PUMP & SYSTEMS INC.	P.O. BOX 338, ROUTE 519	EIGHTY FOUR	PA	15330	C
DENGLER ELECTRIC	82 POST RD	ASHLAND	PA	17921	C
DENISE E GIRARD SAFTEY CONSL	P O BOX 58	EMLENTON	PA	16373	C
DENNIS KOUGH TRUCKING	RD #1 251 A	SHELOCTA	PA	15774	C
DESALVO CONSULTING & TRAINING	3303 ST MARY AVE	BARNESBORO	PA	15714	C
DEVILS HOLE INC.	PO BOX 559	SCHUYLKILL H	PA	17972	C
DIESEL SERVICE INCORPORATED	150 LEHIGH STREET	READING	PA	19601	C
DINSMORE & SHOHL, LLP	SUITE 730, GRANT BLDG.	PITTSBURGH	PA	15219	A
DIVERSIFIED AIR SYSTEMS INC	269 MEADOWLANDS BLVD	WASHINGTON	PA	15301	C
DLR MINING INC.	3065 AIRPORT RD.	INDIANA	PA	15701	B
DMS SAFETY SERVICES	PO BOX 242	GRAMPIAN	PA	16838	C
DOBSON, INC.	R.D. #5, BOX 341-A	PUNXSUTAWNEY	PA	15767	C
DOLAN'S WELDING & STEEL FAB., INC.	118 VENTURE STREET	JOHNSTOWN	PA	15909	C
DON HEPFER ELECTRICAL SERVICE	R D 1 BOX 409	GRAMPIAN	PA	16838	C
DONALD J GREGG	9 WALNUT CIRCLE	CRESSON	PA	16630	C
DONALD L. BARTLEY	P.O. BOX 5	PARKER	PA	16049	C
DOSEBUSTERS	200 INNOVATION BLVD.,SUITE 229	STATE COLLEGE	PA	16801	E
DOUBLE D ENERGY ASSOCIATES, LLC	BOX 137	CENTRAL CITY	PA	15926	C
DOUG LUNDY ELECTRIC	P O BOX 273	MC ELHATTAN	PA	17748	C
DOUGLAS BATTERY MFG AND CO	88 E BUFFALO CHURCH ROAD	WASHINGTON	PA	15301	C
DOUGLAS EXPLOSIVES, INC.	P. O. BOX 77	PHILIPSBURG	PA	16866	AS, C
DOVERSPIKE BROS. COAL CO.	RD 4, BOX 271	PUNXSUTAWNEY	PA	15767	B
DRAEGER SAFETY INC.	FRMLY: NATIONAL DRAEGER,P. O. BOX 120	PITTSBURGH	PA	15230	E
DUNAMIS RESOURCES, INC.	ONE ENERGY PLACE, STE. 4000	LATROBE	PA	15650	AB, C, P
DUNCAN BROTHERS DRILLING INC.	BOX #136	NEW GALILEE	PA	16141	C
DUNKARD MINING CO.	RR 1, BOX 8	DILLINER	PA	15327	AB
DUO CONSTRUCTION & CONSULTING	P.O. BOX 532	INDIANA	PA	15701	C
DUQUESNE LIGHT CO.	BOX 457	GREENSBORO	PA	15338	AB, P
E E & S AUGER MINING INC	74 AMBROSE RD.	HOME	PA	15747	C
E J H CONTRACTING INC	RD 1 BOX 457	MORRISDALE	PA	16858	C
E. M. BROWN, INC.	329 MOUNT JOY RD. P. O. BOX 767	CLEARFIELD	PA	16830	AB, P
E. P. BENDER COAL CO., INC.	MAIN & LEHMIER ST.	CARROLLTOWN	PA	15722	AB
EARTH MOVERS EQUIPMENT CO.	P.O. BOX 187	KYLERTOWN	PA	16847	C
EARTH SCIENCES CONSULTANTS, INC.	ONE TRIANGLE LANE	EXPORT	PA	15632	AS
EARTHTECH, INC.	336 BLOOMFIELD, ST., SUITE 201	JOHNSTOWN	PA	15904- 3271	AS, C

EAST PENN MANUFACTURING CO	DEKA ROAD	LYON STATION	PA	19536	E
EAST PENN REBUILDERS	3059 OREFIELD RD	ALLENTOWN	PA	18104	A
EASTERN EQUITIES INC	978 GAP STREET	VALLEY VIEW	PA	17983	C
ED ARNOLD DRILLING	95 PINE FORGE RD	DOUGLASVILLE	PA	19518	C
ED HANSLOVAN COAL CO., INC.	RTE. 2, BOX 230	MORRISDALE	PA	16858	AB
ED KRASINSKI FIELD SERVICE	P.O. BOX 32	DRIFTING	PA	16834	C
EICKHOFF CORPORATION	200 PARK WEST DRIVE,	PITTSBURGH	PA	15275	E
EIGHTY-FOUR MINING COMPANY	P.O. BOX 284	EIGHTY FOUR	PA	15330	AB, E
EIT CORPORATION	P. O. BOX 744	SUNBURY	PA	17801	E
EL GRANDE INDUSTRIES, INC.	384 HELEN AVENUE	MONESSEN	PA	15062	C
ELECTRIC MOTOR SUPPLY	1000 50TH STREET	ALTOONA	PA	16603	C
ELECTRO-MEC INC.	PO BOX 159	INDIANA	PA	15701	C
ELGIN'S SERVICES	NEALS WAY ROAD, P.O. BOX 32	HAMILTON	PA	15744	C
ELL INC	1249 COPELAND RD	LEECHBURG	PA	15656	C
EMBER INDUSTRIES	P O BOX 189	WESTOVER	PA	16692	C
EMPIRE TRUCKING CO INC	RR #1 BOX 198	SHAMOKIN	PA	17872	C
ENERCORP, INC.	RD. 2, BOX 236	MORRISDALE	PA	16858	AB
ENERGY RESOURCES, INC.	P. O. BOX 259	BROCKWAY	PA	15824	AB, P
ENERGY TRANSPORTATION INC	P O BOX 259	BROCKWAY	PA	15824	C
ENGELKING SERVICE CO	P O BOX 51	NEW FLORENCE	PA	15944	C
ENVIRONMENTAL SERVICES	2524 HEMLOCK ROAD	COMMODORE	PA	15729	C
EON, INC.	211 RIDGE ROAD	ANNVILLE	PA	17003	C
ERIEZ HEADQUARTERS	P.O. BOX 10608	ERIE	PA	16514	E
ESS INSURANCE GROUP	316 FIRST AVENUE, 3RD FLOOR, (P. O. BOX 955)	KITTANNING	PA	16201	AS
ESS/MICON	#25 ALLEGHENY SQ	GLASSPORT	PA	15045	C
EVERGREEN INSURANCE ASSOC., INC.	P. O. BOX 505	EBENSBURG	PA	15931-0505	A, AS
EXPLOSIVE SERVICES INC	RR 3 BOX 749	HONESDALE	PA	18431	C
EXPLO-TECH INC	401 W HIGH STREET #102	POTTSTOWN	PA	19464	C
EXPORT FUEL CO., INC.	R.R. 7, BOX 455	EXPORT	PA	15632	C
F L HAUS	921 RIDGE AVE	PITTSBURGH	PA	15212	C
F&D COAL SALES	P.O. BOX 84	HAZLETON	PA	18201	A
F.B. LEOPOLD CO.	BOX 128 GLEN GERY RD.	WATSONTOWN	PA	17777	A
F.T.F. INC.	264 ROBINSON RUN ROAD	CLAYSVILLE	PA	15323	C
FAIRVIEW BIT COMPANY, INC.	1598 TIFFANY DR	PITTSBURGH	PA	15241	E
FALLS CREEK ENERGY CO. INC.	RD 6 BOX 321	KITTANNING	PA	16201	C
FARFIELD COMPANY	312 E MEADOW VALLEY RD	LITITZ	PA	17543	C
FARNHAM & PFILE CONSTR INC	4306 STATE RT 51 SOUTH	BELLE VERNON	PA	15012	C

FAYETTE TRANSPORTATION SERVICE	P.O. BOX 1091	UNIONTOWN	PA	15401	C
FEMCO MACHINE CO	RD #6 BOX 17	PUNXSUTAWNEY	PA	15767	C
FERRI CONTRACTING CO INC	235 MILLERS RUN RD	BRIDGEVILLE	PA	15017	C
FIKE ASSOC., INC.	22830 ROUTE 68	CLARION	PA	16214	AS
FIKE ASSOCIATES INC	R.D.3, BOX 276	CLARION	PA	16214	C
FIRST UNION BANK	P.O. BOX 1102	READING	PA	19603	A
FISHER MINING CO., INC.	40 CHOATE CIRCLE	MONTOURSVILLE	PA	17754	A, B, P
FLIP INC	RD #6 BOX 393	INDIANA	PA	15701	C
FORADORA WELDING & MACHINE INC	RD #1 BOX 205	FALLS CREEK	PA	15840	C
FORCEY COAL, INC.	RD. 4, BOX 82	CLEARFIELD	PA	16830	AB
FOREST CONSTRUCTION CO	300 SCOTTDALE AVENUE	SCOTTDALE	PA	15683	C
FOREST DIESEL, INC.	P.O. BOX 284	RAMEY	PA	16671-0284	C
FORSYTH DRILLING CO	RD #8 BOX 78B	DU BOIS	PA	15801	C
FOSTERS WELDING	P O BOX 404	SMITHFIELD	PA	15478	C
FOY BROTHERS	BOX 150	SHANKSVILLE	PA	15560	C
FRB INC	234 RT 30 W	LIGONIER	PA	15658	C
FRED A WEYAND TRUCKING	4283 LINCOLN HWY	STOYSTOWN	PA	15563	C
FRED P. WALKER TRUCKING	599 DOMINION DR	SOMERSET	PA	15501	C
FRED WIKE TRUCKING	RD 1	HARRISVILLE	PA	16038	C
FREEDOM MINING SERVICES	P.O. BOX 44	SMITHFIELD	PA	15478	C
FREMER SURFACE MINE RECLAMATIO	PO BOX 203	BROCKWAY	PA	15824	C
FRYE CONSTRUCITON INC.	100 SIXTH STREET	MONOGAHELA	PA	15063	C
FUEL FABRICATORS, INC.	P.O. BOX 368	BIGLER	PA	16825	C
FUEL MAKERS, INC	180 QUALITY CENTER ROAD	HOMER CITY	PA	15748	C
FUEL RECOVERY, INC.	2591 WEXFORD-BAYNE ROAD, SUITE 204	SEWICKLEY	PA	15143	AB, AS
FURNIVAL EQUIPMENT CO.	1261 HIGHWAY 315	WILKES BARRE	PA	18702	A
FURNIVAL MACHINERY CO	2240 BETHLEHEM PIKE	HATFIELD	PA	19440	A
G & C LAB	R.D.#1	SUMMERSVILLE	PA	15864	C
G & G ENTERPRISES	2966 WHISTLER RD	STOYSTOWN	PA	15563	C
G & G TRUCKING	700 W COAL ST	SHENANDOAH	PA	17976	C
G A BAUER TRUCKING CO	R D #1 BOX 555	LUCINDA	PA	16235	C
G FRANK ARTERS INC	11 STONETOWN ROAD	BIRDSBORO	PA	19508	C
GAHAGAN WELDING SERVICE	180 PINE AVENUE	INDIANA	PA	15701	C
GAI CONSULTANTS, INC.	570 BEATTY ROAD	MONROEVILLE	PA	15146-1300	AS
GAI-TRONICS CORPORATION	400 E. WYOMISSING AVE.	MOHNTON	PA	19540	E
GALE MINING CO	1441 OAK RD	POTTSVILLE	PA	17901	A

GALLAHER SUPPLY INC	RD 1 BOX 140	IRVONA	PA	16656	C
GARBART ENGINEERING CO	P O BOX 4-A	LEMONT FURNAC	PA	15456	C
GAUDIANO STEEL	9 SUNBURST DR. RD 2	HAZELTON	PA	18201	C
GEARHART MCKEE INC.	47 WALNUT STREET	JOHNSTOWN	PA	15901	C
GENE DELATIRE CORP.	505 HUDSON AVE	MONONGAHELA	PA	15063	C
GENE HILLEGAS	1893 COLEMAN STATION ROAD	FRIEDENS	PA	15541	C
GENERAL ELECTRIC CO.	DC MOTOR & GENERATOR DEPT.,3001 EAST LAKE ROAD, 9- 3	ERIE	PA	16531	E
GENERAL ENGINEERING INC	PO BOX 684	CLARION	PA	16214	
GENERAL MECHANICAL INC	234 MERLO RD	MINERAL POINT	PA	15942	C
GENESIS, INC.	1134 STOYSTOWN RD.	FRIEDENS	PA	15541	AB
GEOCHEMICAL TESTING	2005 N. CENTER AVENUE	SOMERSET	PA	15501	AS
GEO-CON INC	4075 MONROEVILLE BLVD STE 400	MONROEVILLE	PA	15146	C
GEO-ENVIRONMENTAL DRILLING COMPANY, INC.	11101 FRANKSTOWN ROAD	PITTSBURGH	PA	15235- 3096	C
GEORGE CLYMER INS. AGENCY	922 PHILADELPHIA STREET, (P. O. BOX 839)	INDIANA	PA	15701	AS
GEORGE J HAYDEN INC ELECTRICAL	235 E MAPLE ST	HAZLETON	PA	18201	C
GEORGE LEIB WELL DRILLING & PL	293 TICLMAN RD	ASHLAND	PA	17921	C
GEORGE P KRASINSKI	RD #1 BOX 236	MORRISDALE	PA	16858	C
GEORGINO INDUSTRIAL SUPPLIES	R.D. 1, ROUTE 255N, P.O. BOX 30	PENFIELD	PA	15849- 0300	C
GHEZZI TRUCKING CO.	R.D. #2, BOX 241A	REYNOLDSVILLE	PA	15851	C
GILBERTON COAL CO	MAIN ST	GILBERTON	PA	17934	A
GINTHER COAL CO.	P.O. BOX 989	POTTSVILLE	PA	17901	A
GIRARD ESTATES	5TH FLOOR, 21 SOUTH 12TH ST	PHILADELPHIA	PA	19107	A
GIRARDVILLE COAL CO.	430 W. MAIN STREET	GIRARDVILLE	PA	17932	A
GLASS UNLIMITED	310 S BRADY ST	DU BOIS	PA	15801	C
GLENCO CONSTRUCTION SERVICES INC.	P O BOX 1029	LEWISTOWN	PA	17044	C
GLENN PRITTS	525 OLD MULE TRAIL RD.	GARRETT	PA	15542	C
GLOBAL CONTRACTING, INC.	P.O. BOX 588	NEW EAGLE	PA	15067	C
GM & S COAL COMPANY	P.O. BOX 233	JENNERSTOWN	PA	15547	AB, E
GOD'S GREEN EARTH, INC.	126 TERRI DRIVE	WEST MIDDLESEX	PA	16159	AS
GOOD TIRE SERVICE INC	401 S WATER ST	KITTANNING	PA	16201	C
GOOD TIRE SERVICE INC	PO BOX J	KNOX	PA	16232	C
GOODALL ROBERT B.	725 MIDWAY CANDOR RD	BULGER	PA	15019	B
GRADEMAKER CONSTRUCTION SERVICES, INC.	304 BROTHERTON ROAD	FRIEDENS	PA	15541	C
GRAHAM AND SONS INC	109 BURKE ST	ELLWOOD CITY	PA	16117	C
GREENMOOR INC	P O BOX D	AVELLA	PA	15312	C

GREGG BARRETT COAL	CAPRICORN CT., LOT 5	CLEARFIELD	PA	16830	B
GREGG PROTECTION SERVICES, INC.	828 EAST PITTSBURGH PLAZA	EAST PITTSBURGH	PA	15112	C
GRGURIC EXCAVATING	1425 CLARKSBURG RD	CLARKSBURG	PA	15725	C
GRINDEX AB	C/O PM SUPPLY,ROUTE 22, ROAD 4	EDENSBURG	PA	15931	E
GROVE RESOURCES, INC.	P.O. BOX 220, 133 HEMLOCK LANE	ACME	PA	15622	C
GROVES EXCAVATING	RD 1 BOX 252	FALLS CREEK	PA	15840	C
GUTTMAN GROUP - MON RIVER TOWING	200 SPEERS STREET	BELLE VERNON	PA	15012	MT
H & H WATER CONTROL INC	102 OLYMPIC STREET	CARMICHAELS	PA	15320	C
H E FOX INC	RT 66-28 SOUTH	DISTANT	PA	16223	C
H J SCHNEIDER CONSTRUCTION INC	2080 EHRMAN RD	CRANBERRY TOW	PA	16066	C
HAINES TRUCKING	BOX 166, RT. 88S	DILLINER	PA	15327	C
HAND DRILLING	RD 3 BOX 113-A	DUBOIS	PA	15801	C
HARBAUGH POWER PRODUCTS	520 NORTH 7TH STREET	YOUNGWOOD	PA	15697	C
HARBISON-WALKER REFRAC. CO.	600 GRANT STREET	PITTSBURGH	PA	15219	AS
HARMAN STOVE CO.	325 MOUNTAIN HOUSE ROAD	HALIFAX	PA	17032	A
HARTMANN ASSOC INC	5637 BROWNSVILLE RD	PITTSBURGH	PA	15236	C
HARVEYS SUPPLY CO	225 WASHINGTON ST	JOHNSTOWN	PA	15901	C
HATFIELD MODULAR SERVICES	1082 BANETOWN ROAD	WASHINGTON	PA	15301	C
HATTERAS HOLDINGS INC.	SUITE A 630, ROUTE 837	COURTNEY	PA	15067	C
HAWK MOUNTAIN LABS	201 CLAY AVE	WEST HAZLETON	PA	18201	A
HAYSITE REINFORCED PLASTICS	5599 NEW PERRY HIGHWAY	ERIE	PA	16509	E
HEINLE ELECTRICAL CONTRACTING	1315 ROUTE 259	PENN RUN	PA	16765	C
HELVETIA COAL COMPANY	P O BOX 219	SHELOCTA	PA	15774	E
HENKELS & MCCOY INC	985 JOLLY RD	BLUE BELL	PA	19422	C
HEPBURNIA COAL CO.	P. O. BOX I	GRAMPIAN	PA	16838	AB, P
HESS & FISHER ENGINEERS, INC.	36 NORTH SECOND STREET	CLEARFIELD	PA	16830	AS
HIGGINS HAULING CO	RD 3 BOX 113A	WAYNESBURG	PA	15370	C
HIGHLAND REPAIR INC.	217 HIGHLAND DRIVE, P.O. BOX 122	WOODBURY	PA	16695	C
HIGHWAY EQUIPMENT & SUPPLY CO.	P.O. BOX 309, ROUTE 309	DRUMS	PA	18222	A, C
HIGHWAY EQUIPMENT CO	22035 PERRY HIGHWAY	ZELIENOPE	PA	16063	AS, C
HILL TOP COAL CO.	R.R. #1, BOX 347	HOUTZDALE	PA	16651	B, C
HILL'S LAND SERVICES	RR 4, BOX 282A	BROOKVILLE	PA	15825	C
HILL'S WELDING COMPANY	58 N MARKET	ELYSBURG	PA	17824	C
HILLSTREET CONCRETE & CONSTRUCTION	45 PITT STREET, P.O. BOX 89	FREDERICKTOWN	PA	15333	C
HIMMEL TRUCKING INC.	161 FARMHOUSE LANE	CARROLLTOWN	PA	15722	C
HITE TRUCKING	1567 DUTCH ROAD	LORETTO	PA	15940	C

HMJ TRANSPORT, INC.	119 HECK ROAD	SAVER	PA	16055	C
HOLT DRILLING	P.O. BOX 53	BROCKWAY	PA	15824	C
HONEY-POTS	451 RALPHTON RD	STOYSTOWN	PA	15563	C
HOROMANSKI TRUCKING	5409 OAK AVE	ALTOONA	PA	16601	C
HOSCH COMPANY	1002 INTERNATIONAL DRIVE	OAKDALE	PA	15071	C
HOWARD E. STUBER, INC.	P.O. BOX 288	ROCHESTER	PA	15074	C
HOWARD GAS & OIL	P.O. BOX 494	HARRISON CITY	PA	15636	C
HRANEC CORPORATION	751 S-T DRIVE	UNIONTOWN	PA	15401	C
HUDSON ANTHRACITE	202 MAIN ST	LAFLIN	PA	18702	A
I & I ENGINEERING	1262 LAUREL BLVD	POTTSVILLE	PA	17901	A
ICKES EQUIPMENT REPAIR	203 HIGH ST	BERLIN	PA	15530	C
INDEPENDENT MINERS & ASSOCIATES	44 N. CRESCENT STREET	TREMONT	PA	17981	A
INDUSTRIAL CONSTRUCTION, INC.	1476 STATE ROUTE 51	JEFFERSON HILLS	PA	15025	C
INDUSTRIAL LIQUIDATORS INC	7649 LINCOLN HWY	CENTRAL CITY	PA	15926	C
INDUSTRIAL SCIENTIFIC CORP.	FORMERLY NATL MINE SERVICE, 1001 OAKDALE ROAD	OAKDALE	PA	15071-1500	E
INDUSTRIAL SOLID STATE CONTR, INC.	BOX 934, 435 W. PHILADELPHIA	YORK	PA	17405	E
J & D EXPLOSIVES INC	198 INDUSTRIAL PARK RD	MEYERSDALE	PA	15552	C
J & F LENOSKY TRUCKING	MAIN ST	SELTZER	PA	17974	C
J & J EXCAVATING	618 SAMUELS ROAD	SOMERSET	PA	15501	C
J & K ERECTION CO INC	P O BOX 1154	MCMURRAY	PA	15317	C
J & L PROFESSIONAL SALES	200 METEOR CIRCLE	FREEDOM	PA	15042	C
J D LAROCK TRUCKING	RD 2 BOX 102	REYNOLDSVILLE	PA	15851	C
J G REFRACTORY SERVICES INC	P.O. BOX 486	CARNEGIE	PA	15106	C
J J POWELL INC	P O BOX 30	PHILLIPSBURG	PA	16866	C
J L BROWN WELDING	P.O. BOX 68	WOODLAND	PA	16881	C
J R THOMAS SECURITY	402 BERTMIN STREET	JOHNSTOWN	PA	15904	C
J T B MINE VENTILATION	60 BRADLEY COURT DR	INDIANA	PA	15701	C
J. MARLIN ERNST & SONS, INC.	15 PINEDALE VIEW DRIVE	ORWIGSBURG	PA	17961	A
J.C. COAL, INC.	P.O. BOX 161	MINERSVILLE	PA	17954	A
J.M. ADAMS COAL	109 YORKTOWN ROAD	MCMURRAY	PA	15317	C
J.P.S. SAFETY TRAINING	115 CROSS STREET	CARMICHAELS	PA	15320	C
J.R. MINING CONSTRUCTION, INC.	ROUTE 553, BOX 130	MENTCLE	PA	15761	C
J/R ELECTRIC & MACHINE	RR 2. BPX 342	PUNXSUTAWNEY	PA	15767	C
JACK R. CHAMBERLIN P.L.S., (SURVEYING & CONSULTING)	128 CHAMBERLIN ROAD	BROOKVILLE	PA	15825	AS
JACKPOT TRUCKING	RD#2 BOX 335-A	DAYTON	PA	16222	C
JACKSON CONTRACTING	RR1 BOX 298-A	PHILIPSBURG	PA	16866	C
JACOB DRILLING SERVICE	P O BOX 154	FAIRCHANCE	PA	15436	C

JACOBS OIL COMPANY, INC.	2063 CLEARFIELD VALLEY BOULEVARD	DYSART	PA	16636	C
JAMES P NEESE TRUCKING	RD 2 BOX 142B	MAYPORT	PA	16240	C
JAMES T ADAMS	4368 MERCER ST.	SANDY LAKE	PA	16145	C
JANUS INC	51 BRIDGE ST STE 200	PITTSBURGH	PA	15223	C
JAWCO FIRE, INC.	RD 8, BOX 194	PUNXSUTAWNEY	PA	15767	C
JEDCO BUILDING INC	554 SCHOOL RD	LEECHBURG	PA	15656	C
JEDDO COAL CO.	46 PUBLIC SQ., STE 600	WILKES BARRE	PA	18701	A
JENKINS TRUCKING	RD 2 BOX 1	SMITHFIELD	PA	15478	C
JENNMAR CORP.	250 KAPPA DRIVE, P.O. BOX 111253	PITTSBURGH	PA	15238	AS, MT
JESSE BUZZARD JR TRUCKING	DRAWER Q	RIMERSBURG	PA	16248	C
JET PRESSURE CLEANING	7683 ADMIRAL PERRY HWY	CRESSON	PA	16630	C
JIM LEWIS SERVICES	125 WITHEROW STREET	PUNXSUTAWNEY	PA	15767	C
JIM NADIK TRUCKING, INC.	1064 CLINTON FRANKFORT ROAD	CLINTON	PA	15026	C
JMG ENTERPRISES, INC.	10027 ROUTE 403, HIGHWAY SOUTH	SEWARD	PA	15954	C
JOHN DEERE CREDIT	SENSTAR CAPITAL DIVISION, ONE OXFORD CENTRE	PITTSBURGH	PA	15219-1413	AS
JOHN E STEVANUS WELDING	116 PECK RD	ROCKWOOD	PA	15557	C
JOHN MCELHENY	BOX 117, 1600 SKYLINE DRIVE	BLANDBURG	PA	16619	C
JOHN PAUL GRUBER JR	P O BOX 10	SHIPPENVILLE	PA	16254	C
JOHN T. BOYD COMPANY	1500 CORPORATE DRIVE, SUITE 100	CANNONSBURG	PA	15317	AS
JOHN WILLIAMSON WELDING	RD 2 BOX 100 A	PHILIPSBURG	PA	16866	C
JONES TRUCKING	R.D. 12, BOX 360, KILL DEER HILL ROAD	GREENSBURG	PA	15601	C
JOSEPH E. BROCK TRUCKING	520 GRAMPIAN ROAD	CURWENSVILLE	PA	16833	C
JOSEPH MAINTENANCE SERVICES IN	RD 1 BOX 268	ARMAGH	PA	15920	C
JOSEPH MAKER TRAINING	104 TRANQUIL AVENUE	BUTLER	PA	16002	C
JOSEPH PETROLE COAL SALES	RD 4 BOX 345A	TAMAQUA	PA	18252	C
JOY MINING MACHINERY	177 THORN HILL ROAD	WARRENDALE	PA	15086	AS
JOY MINING MACHINERY	120 LIBERTY ST, P.O. BOX 791	FRANKLIN	PA	16323	C, E
JOYCE OIL LLP	P.O. BOX 254	NORVELT	PA	15674	C
JUNOD TRUCKING	R.D. 1, BOX 682	MAHAFFEY	PA	15757	C
K & G COAL CONTRACTING	R. D. #4, BOX 486	DUBOIS	PA	15801	C
K & J AUKER	6 S. RIDGE ROAD	REIN HOLDS	PA	17569	C
K PIKE TRUCKING	RD 1 BOX 4-B	MCCLELLANDTWN	PA	15458	C
K&J COAL CO., INC.	P.O. BOX 189	WESTOVER	PA	16692	AB
K. B. COAL INC.	POB 4091	HIDDEN VALLEY	PA	15502	B
K. PEARCE TRUCKING	R.D. 3, BOX 134C	REYNOLDSVILLE	PA	15851	C
KACZOR CONTRACTING INC.	210 SKYLARK DR.	APOLLO	PA	15613	C

KAJON MATERIALS, INC.	2315 POWELL AVENUE	ERIE	PA	16506	AS
KATZ TRANSPORT INC.	1101 RAILROAD STREET	MONONGAHELA	PA	15063	C
KAZA FIRE EQUIPMENT COMPANY	155 LOVELL AVENUE	EBENSBURG	PA	15931	C
KECO ENERGY, INC.	P.O. BOX 386	NAZARETH	PA	18064	C
KEITH K. HILLEY	135 CHERRY STREET	PUNXSUTAWNEY	PA	15767-1400	C
KEN DRUM EXCAVATING & HAULING	FIFTH ST	WILLIAMSTOWN	PA	17098	C
KEN POLLOCK INC	PO BOX 27	NANTICOKE	PA	18634	C
KENNAMETAL INC	PO BOX 161	BEDFORD	PA	15522	C
KENNEDY RAILROAD BUILDERS INC	PO BOX 3088	SHIERMANSTOWN	PA	17011	C
KENNETH J LEAHEY	5349 PORTAGE STREET	LILLY	PA	15938	C
KERRY COAL CO.	RR 2, BOX 2139	WAMPUM	PA	16157	AB
KERWICK INSURANCE AGENCY	1762 WEST MARKET ST	POTTSVILLE	PA	17901	
KEVIN MACY	175 KERESAW LANE	JOHNSTOWN	PA	15905	C
KEY WAY SUPPLY CO	4541 LINCOLN HWY	STOYSTOWN	PA	15563	C
KEYSTONE COAL MINING CORP	1800 WASHINGTON RD	PITTSBURGH	PA	15241	E
KEYSTONE MINERALS, INC.	P.O. BOX 133	RIDGWAY	PA	15853	C
KEYSTONE MOUNTAINEER POWER	79 STEWART AVE	WASHINGTON	PA	15301	C
KEYSTONE WATER SYSTEMS	28 ONTARIO ROAD	SCENREY HILL	PA	15360	C
KEYSTONE WELL DRILLING, INC.	P.O. BOX 122	HAWK RUN	PA	16840-0122	C
KH CONTROLS, INC.	420 N. LIBERTY ST.	BLAIRSVILLE	PA	15717	E
KILLAM ASSOCIATES	GATEWAY VIEW PLAZA, 1600 W CARSON ST	PITTSBURGH	PA	15219	AS
KIMMEL WELDING SERVICE	315 CREEK RD	MEYERSDALE	PA	15552	C
KING COAL SALES, INC.	P. O. BOX 712, 602 N. 3RD ST.	PHILIPSBURG	PA	16866	AB, P
KIRKPATRICK & LOCKHART LLP	240 N. THIRD STREET	HARRISBURG	PA	17101-1507	AS
KIRK'S STEAM CLEANING	1675 WIDA ROAD	INDIANA	PA	15701	C
KISKI MINER'S INC	210 SKYLARK DRIVE	APOLLO	PA	15613	C
KLINGINSMITH ENTERPRISES	P O BOX 5135	CONNEAUT LAKE	PA	16316	C
KNOPP & KLATT EXCAVATION & CON	6036 ADMIRAL PEARY HWY	EBENSBURG	PA	15931	C
KOBIN COAL	980 EAST BROAD ST	HAZLETON	PA	18201	A
KOEHLER-BRIGHT STAR, INC.	380 STEWART ROAD	WILKES-BARRE	PA	18706	E
KRUMAN EQUIPMENT COMPANY	3000 PENN AVENUE	PITTSBURGH	PA	15201	C
KUKURIN GENERAL CONTRACTING, INC.	R.D. #2, ROUTE 286	EXPORT	PA	15632	C
L G HETAGER DRILLING CO	R.D.#1 BOX 16	PUNXSUTAWNEY	PA	15767	C
L J NEVLING ELECTRIC	PO BOX 78	RAMEY	PA	16671	C
L W MILLER ROOFING INC	100 HAMILTON ST	WASHINGTON	PA	15301	C
L WEYANT TRUCKING	P O BOX 93	CENTRAL CITY	PA	15926	C
L&E CONCRETE PUMPING INC	106 SHANGRI LANE	PITTSBURGH	PA	15237	C

L&J ENERGY CO., INC.	P.O. BOX 1	GRAMPIAN	PA	16838	AB
L. C. AND STELLA HARTLE	279 HIGGINS ROAD	HILLIARDS	PA	16040	C
L.A. SEBASTIAN PAINTING	2927 LIBERTY WAY	MCKEESPORT	PA	15133	C
LANDIS TRUCKING	9024 GLADES PIKE	BERLIN	PA	15530	C
LANE FABRICATORS DIVISION	P.O. BOX 345	PULASKI	PA	16143	C
LARRY D BAUMGARDNER COAL CO.	POB 186	LANSE	PA	16849	B
LARRY G MILLER TRUCKING	RD 1 BOX 201	STOYSTOWN	PA	15563	C
LAUREL RUN RECLAMATION	P.O. BOX 372	BIGLER	PA	16825	AB
LBS RELIABILITY SERVICES, INC.	1501 REEDSDALE STR., SUITE 500	PITTSBURGH	PA	15233	C
LEE SUPPLY CO INC	PO BOX 35	CHARLEROI	PA	15022	C
LEIGHT UNIVERSITY	5 EAST PACKER AVE.	BETHLEHEM	PA	18015	U
LENIG COAL CO.	RD 1, BOX 330	SHAMOKIN	PA	17872	A
LEVINE IRON & METAL INC	PO BOX 328	WAYNESBURG	PA	15370	C
LEWIS EYSTER TRUCKING	P O BOX 173	SHENANDOAH	PA	17976	C
LEWIS GOETZ & COMPANY, INC.	650 WASHINGTON ROAD	PITTSBURGH	PA	15270	MT
LEWIS WELDING & EXCAVATING	RD #1 BOX 216	MORRIS	PA	16938	C
LIAS TOWN & CRANE SERVICE	484 NORTH FIFTH STREET	INDIANA	PA	15701	C
LIGONIER CONSTRUCTION CO.	P.O. BOX 277	LAUGHLINTOWN	PA	15655	C
LINCOLN CONTRACTING & EQUIPMENT CO INC	P. O. BOX 96	BOSWELL	PA	15531	AS, C
LINCOLN HYDRAULICS, INC.	20 MUSEUM ROAD	WASHINGTON	PA	15301	MT
LION MINING CO.	214 COLLEGE PARK PLAZA	JOHNSTWON	PA	15904	AB
LITTLE BUCK COAL CO	RD 4 BOX 395	PINE GROVE	PA	17963	C
LOADOUT SERVICES, INC.	P.O. BOX 129	BLAIRSVILLE	PA	15717	C
LOCHRIE COAL CO.	828 STATLER RD.	WINDBER	PA	15963	AB
LOGI-TEC, INC.	4689 FAIRVIEW DRIVE	MURRYSVILLE	PA	15668	E
LOHR TRUCKING	P.O. BOX 100	MARTIN	PA	15460	C
LONE PINE CONSTRUCTION INC.	83 LUSK RD	BENTLEYVILLE	PA	15314	C
LONZETTA TRUCKING & EXCAVATING	POB 644	HAZLETON	PA	18201	A
LOUIS COHEN & SON INC	P O BOX 1004	WILKES BARRE	PA	18703	C
LP SYNFUEL INC.	106 MARLBORO DRIVE	MCMURRAY	PA	15317	C
LUTHER P MILLER INC.	BOX 714	SOMERSET	PA	15501	C
M & J EROSION, INC.	387 NORTH RICHHILL STREET	WAYNESBURG	PA	15370	C
M & Y SERVICES INC	PO BOX 9	UNIONTOWN	PA	15401	C
M I F INC	809 14TH AVE	BROCKWAY	PA	15824	C
M&T BANK	ONE SOUTH CENTRE ST	POTTSVILLE	PA	17901	A
M.L. REESMAN TRUCKING	R.D. #2, BOX 291A	DAYTON	PA	16222	C
M.P.J. INDUSTRIES	239 FOXCROFT ROAD	PITTSBURGH	PA	15220	C
MAGNUM ELECTRIC INC.	P O BOX 396	SAXONBURG	PA	16056	C

MAHAFFEY EQUIPMENT DIVISION	317 COMMERCE PARK DR	CRANBERRY TWP	PA	16066	C
MAHAFFEY LAB LTD	P O BOX L	GRAMPAIN	PA	16838	C
MAIOCCO ELECTRIC	PO BOX 503	BLANDBURG	PA	16619	C
MALLARD CONTRACTING	LEHIGH & POPLAR STS	MOUNT CARMEL	PA	17851	A
MANGANAS PAINTING CO INC	255 LINDEN CREEK RD	CANONSBURG	PA	15317	C
MAPLE CREEK MINING, INC.	981 RTE. 917	BENTLEYVILLE	PA	15314	AB, E, P
MARCELLA MILLER	67 GILLROAD	GROVE CITY	PA	16127	C
MARK ANN INDUSTRIES INC	P.O. BOX 1022	KITTANNING	PA	16201	C
MARK E SANTILLA HEAVY EQUIPMEN	RD #2 BOX 128 C	BLAIRSVILLE	PA	15717	C
MARK SALLACK TRUCKING	RD #1 BOX 473	PUNXSUTAWNEY	PA	15767	C
MARQUISE MINING CORPORATION	3889 MENOHER BLVD.	JOHNSTOWN	PA	15905	C
MARSA INC.	3730 POPLAR AVENUE	PITTSBURGH	PA	15234	C
MARSHALL ELEVATOR CO.	2015 MARY STREET	PITTSBURGH	PA	15203	C
MARTA TRACK CONSTRUCTORS INC.	P.O. BOX 1509	WASHINGTON	PA	15301	C
MARTIN ELECTRIC	PO BOX 671	PERRYOPOLIS	PA	15473	C
MARTY RANCOSKY	P.O. BOX 660	GRINDSTONE	PA	15442	C
MASTER MACHINE COMPANY	5013 CLEAR SHADE DRIVE	WINDBER	PA	15963	C
MATRIC LIMITED	HILL CITY ROAD,ROUTE 1, BOX 421A	SENECA	PA	16346	E
MAUDIE EXCAVATING & HAULING, INC.	9031 ROUTE 286 WEST	HOMER CITY	PA	15748	C
MAURER & SCOTT INC	PO BOX 20843	LEHIGH VALLEY	PA	18002	C
MAXSAM DRILLING	1226 DON STREET	HOUTZDALE	PA	16651	C
MAYER POLLOCK STEEL CORP.	P.O. BOX 759	POTTSTOWN	PA	19464	C
MBMR INC.	719 LEESBURG STATION ROAD	VOLANT	PA	16156	C
MCCARL'S SERVICE LLC	HILLSIDE DRIVE	DUNCANSVILLE	PA	16635	C
MCCLANAHAN CORPORATION	200 WALL ST	HOLLIDAYSBURG	PA	16648	C
MCCLELLAND WELDING	STAR ROUTE	MADERA	PA	16661	C
MCCLURE SALES CO	435 BEBOUT RD	VENETIA	PA	15367	C
MCCLYMONDS SUPPLY & TRANSIT	P.O. BOX 296	PORTERSVILLE	PA	16051	C
MCCUTCHEON ENTERPRISES, INC.	250 PARK ROAD	APOLLO	PA	15613	C
MCGINLEY MAINTENANCE	P.O.BOX 259	BELLE VERNON	PA	15012	C
MCKAY COAL CO., INC.	R. D. #2, BOX 335-C	TEMPLETON	PA	16259-9211	AB, C, P
MCKEE DRILLING	R.D. 1, BOX 23	ROSSITER	PA	15772	C
MCLANAHAN CORPORATION	20 WALL STREET	HOLLIDAYSBURG	PA	16648	MT
MCNAUGHTON BROS., INC.	P.O. 57	INDIANA	PA	15701	C
MEADOWBROOK COAL CO INC	6690 STATE ROUTE 209	LYKENS	PA	17048	C
MEARS ENTERPRISES, INC.	P.O. BOX 157	CLYMER	PA	15728	AB, C, E
MECKLEY CLEANING SERVICE	R.D. 1, BOX 40	COMMODORE	PA	15729	C

MERCURY TRUCKING INC	ONE ENERGY PL STE 3000	LATROBE	PA	15650	C
MERIT CONTRACTING INC	RD 3 BOX 59	MONOGAHELA	PA	15063	C
MERLYN ORR EXCAVATING	3855 ROUTE 85; HIGHWAY NORTH	HOME	PA	15747	C
METCALF ROTARY EQUIPMENT SERV	P O BOX 17	HUNTINGTON ML	PA	18622	C
MICHAEL AND ASSOCIATES, INC.	PENN STATE RESEARCH PARK,200 INNOVATION BLVD SUITE229	STATE COLLEGE	PA	16803	E
MICHAEL BAKER, JR., INC.	4301 DUTCH RIDGE ROAD	BEAVER	PA	15009	AS
MICHAELS PAINTING CORPORATION	430 ARNOLD AVENUE	STRABANE	PA	15363	C
MICON	25 ALLEGHENY SQUARE	GLASSPORT	PA	15045	AS
MIKE BIER WELL CLEANING & PUMP	146 2ND ST	SOUTH FORK	PA	15956	C
MIKE LUPYAN EQUIPMENT REPAIR	RR 4, BOX 293	BLAIRSVILLE	PA	15717	C
MILLCREEK PROCESSING	P.O. BOX 435	SEWARD	PA	15954	C
MINE SAFETY APPLIANCES CO.	INSTRUMENT DIVISION R&E,P.O. BOX 427	PITTSBURGH	PA	15230	E
MINE SERVICES & CONSTR CO	P O BOX 471	NEW EAGLE	PA	15067	C
MINE TRAINING ASSOCIATE	5687 GIPSY ROAD	GLEN CAMPBELL	PA	15742	C
MINETECH ENGINEERS, INCORPORATED	P.O. BOX 791	ALTOONA	PA	16603-0791	C
MINING & ENVIRONMENTAL ENGINEERS	259 E 10TH ST	BLOOMSBURG	PA	17815	A
MINUTEMAN LUBRICANTS, INC.	539 MARWOOD ROAD	CABOT	PA	16023	AS
MODERN PUMP & EQUIPMENT	655 MOUNTAIN ROAD	MILLERSTOWN	PA	17062	C
MOODY AND ASSOCIATES, INC.	11548 COTTON ROAD	MEADVILLE	PA	16335	AS, C
MOORE & MOORE EXCAVATING	RD #1 BOX 140	SPRAGGS	PA	15362	C
MOORE WELDING	RD 1, BOX 508	BROCKWAY	PA	15824	C
MORGAN EQUIPMENT SERVICE INC.	P.O. BOX 773	CARNEGIE	PA	15106	C
MORGANTOWN-NATIONAL SUPPLY,INC	WAS NMS&MORTOWN MACH. & HYDRCS,P.O. BOX 310	INDIANA	PA	15701	E
MOTT WELDING	RD 6 BOX 313	PUNXSUTAWANE Y	PA	15767	C
MOUNTAIN SPRING COAL CO.	POB 322	SHIPPONGPORT	PA	15077	B
MOUNTAIN TOP WELDING	664 RIDGE ROAD	CLARENCE	PA	16829	C
MOUNTAINSIDE EXCAVATING	2692 SALCO RD	BERLIN	PA	15530	C
MOXIE TRUCKING	277 CALIFORNIA AVE.	SHENNANDOAH	PA	17976	A,C
MT PLEASANT MINE SERVICE	STAR ROUTE BOX 102D	MT PLEASANT	PA	15666	C
MULLIGAN MINING INC.	5945 PUDDING STONE LN	BETHEL PARK	PA	15102	B
MUMAU DIESEL SERVICES, INCORPORATED	P.O. BOX 205	SHELOCTA	PA	15774	C
MUNROE INC.	1820 NORTH FRANKLIN STREET	PITTSBURGH	PA	15233	C
MURPHY EQUIPMENT & WELDING	178 WILLOW STREET	DERRY	PA	15627	C
MUSSER ENGINEERING, INC.	7785 LINCOLN HIGHWAY	CENTRAL CITY	PA	15926	AS, C
N&L COAL CO	5 WOODLAND DR	MT CARMEL	PA	17851	
NATIONAL AMMONIA	TACONY & VANKIRK ST	PHILADELPHIA	PA	19135	C

NEAL PLUMBING	12 LONDON STREET	MONONGAHELA	PA	15063	C
NELSON TRANSPORT, INC.	P.O. BOX 164	YATESBORO	PA	16263	C
NIELSEN-KELLERMAN CO.	104 WEST 15TH STREET	CHESTER	PA	19013	E
NIOSH - DEPT HEALTH & HUMAN SV	PITTSBURGH RESEARCH CENTER,P.O. BOX 18070	PITTSBURGH	PA	15236	E
NORFOLK SOUTHERN CORP.	2 COMMERCE SQ., 2001 MARKET ST, 29 TH FLOOR	PHILADELPHIA	PA	19103	MT
NORTH AMERICAN COAL ROYALTY CO	BOX 429	SEWARD	PA	15954	AB
NORTH AMERICAN COAL ROYALTY CO.	P. O. BOX 245	ARMAGH	PA	15920	P
NORTH STATE SUPPLY CO INC	390 FERGUSON RD	HOMMER CITY	PA	15748	C
NORTHAMPTON FUEL CO.	180 SOUTH MAIN STREET	PLAINS	PA	18705	A
NORTHEAST EQUIPMENT	P O BOX 358	MEADOWLANDS	PA	15347	C
NORTHERN TIER FORESTRY	RD #2 BOX 527 C	SHIPPENVILLE	PA	16254	C
NPS ENERGY SERVICES INC	421 AMITY ROAD	HARRISBURG	PA	17111	C
O. SALANDRA SONS INC.	R.D. 1, BOX 120	BROCKWAY	PA	15824	C
OAK GROVE CONSERVATION COMPANY, INC.	P.O. BOX 391	BIGLER	PA	16825-0391	C
OLD TIME BUILDERS, INC.	132 WEST RACE STREET	SOMERSET	PA	15501	C
OLMSTED INC.	PO BOX 572	W ELIZABETH	PA	15088	C
OPERATIONAL ENERGY CORP	RR1 BOX 409-D HUMBOLDT IND. PK	HAZELTON	PA	18201	C
ORIGINAL FUELS, INC.	P. O. BOX 343	PUNXSUTAWNEY	PA	15767	AB, P
OTT ELECTRICAL SERVICE	190 PELESKY RD	BOSWELL	PA	15531	C
OWENS COAL MINING CO.	R. D. #1, BOX 180	PENFIELD	PA	15849	AB, P
P & N COAL, INC.	240 W. MAHONING STREET, P. O. BOX 332	PUNXSUTAWNEY	PA	15767	AB, C, P
P F SHERMAN CO INC.	3727 POPULAR AVE	PITTSBURG	PA	15234	C
P. SWEDNGLISH TRUCKING COMPANY	573 HADDENVILLE ROAD	UNIONTOWN	PA	15401	C
PA CLEANING SYSTEMS	P.O. BOX 505	PHILIPSBURG	PA	16866	C
PA MINING PROFESSIONALS, (THE EADS GROUP)	P. O. BOX 684	CLARION	PA	16214	AB, AS
PAGNOTTI ENTERPRISES	42 PUBLIC SQUARE	WILKES-BARRE	PA	18701	A
PANGALLO TRUCK SERVICE	STAR ROUTE BOX 13	CLARINGTON	PA	15828	C
PANTHER CREEK FUEL CO., INC.	1001 INDUSTRIAL DR	NESQUEHONING	PA	18240	A
PARKWOOD RESOURCES INC	740 OVERVIEW DR	SHELOCTA	PA	15774	B
PARKWOOD RESOURCES INC	25 NORTH RIDGE ROAD	SHELOCTA	PA	15774	E
PATRICIA MILLER	2941 WHISTLER ROAD	STOYSTOWN	PA	15563	C
PATRICK DONOVAN LOGGING	105 DEERFIELD LANE	LIGONIER	PA	15658	C
PAUL CANTOLINA TRUCKING CO	RR 1 BOX 80	MORRISDALE	PA	16858	C
PAUL J. ASTI	RD #1, BOX 100A	JOHNSONBURG	PA	15845	C
PAUL MILO WELDING	488 SELTZER RD	POTTSVILLE	PA	17901	C
PAUL W. MILLER ROOFING CO.	459 FRANKLIN FARMS ROAD	WASHINGTON	PA	15301	C

PBS COALS, INC.	P.O. BOX 260	FRIEDENS	PA	15541	AB, P
PENN COAL LAND, INC.	243 FETTEROLF ROAD, P. O. BOX 68	BOSWELL	PA	15531	AS
PENN DETROIT DIESEL ALLISON	11 PROGRESS AVENUE	CRANBERRY TWP.,	PA	16066	AS, C
PENN EQUIPMENT CORP	P O BOX 8	PORT CARBON	PA	17965	C
PENN LINE SERVICE INC.	P. O. BOX 462	SCOTTDALE	PA	15683	AS
PENN NATIONAL INSURANCE	PENN NATIONAL INSURANCE TOWER, 2 N SECOND ST, 7TH FL	HARRISBURG	PA	17101	AS
PENN PARTS & SERVICE CO., INC.	RR1, BOX 53, 832 SARAH STREET	OSCEOLA MILLS	PA	16666	C
PENNAMERICAN COAL, L.P.	RD. 1, BOX 119A	AVONMORE	PA	15618	AB
PENNEX POWDER COMPANY	PO BOX 35	KULPMONT	PA	17834	C
PENNSYLVANIA BELT CO INC	PO BOX 164	GREENSBORO	PA	15338	C
PENNSYLVANIA COAL ASSOCIATION	212 NORTH THIRD STREET, SUITE 102	HARRISBURG	PA	17101	AS
PENNSYLVANIA CRUSHER CORP	600 ABBOTT DR PO BOX 100	BROOMALL	PA	19008	C
PENNSYLVANIA GENERAL LEASING	200 COLLEGE DR	LEMONT FURN	PA	15456	C
PERMA INDUSTRIES, INC	P.O. BOX 1014	MCMURRAY	PA	15317	C
PETER J RADOCHA & SONS INC	BOX 36	COALDALE	PA	18218	C
PG&E NATIONAL ENERGY GROUP	NORTHAMPTON GENERATING PLANT, ONE HORWITH DRIVE	NORTHAMPTON	PA	18067	AS
PG&E OPERATING SERVICE CO.	180 S MAIN ST.	PLAINS	PA	18705-1016	A
PHILIP KITKO TRUCKING	RD1	HOUTZDALE	PA	16651	C
PHILIP REESE COAL CO., INC.	P.O. BOX 67	KARTHAUS	PA	16845	AB
PINE CREEK COAL CO.	P.O. BOX 100	SPRING GLEN	PA	17978	A
PITTSBURGH RESEARCH LAB.	626 COCHRAN MILL RD. P.O. BOX 18070	PITTSBURGH	PA	15236	AB
PITTSBURGH SAFETY & HEALTH TEC	MSHA,P.O. BOX 18233	PITTSBURGH	PA	15236	E
PLYMOUTH RUBBER CO., INC.	MINING PRODUCTS DIVISION,120 BERTLEY RIDGE DR.	CORAOPOLIS	PA	15108	E
POLITO & SMOCK, P.C.	SUITE 400, FOUR GATEWAY CTR., 44 LIBERTY AVENUE	PITTSBURGH	PA	15222-1237	AS
POMPEI & SONS, INC.	NO. 1 POMPEI LANE	BENTLEYVILLE	PA	15314	C
POPPLER BROS COAL CO	PO BOX 126	DURYEA	PA	18642	A
PPL GENERATION, LLC	2 N. 9TH STREET	ALLENTOWN	PA	18101	A, AS
PROJECT SERVICES CO INC	P O BOX 347	TIRE HILL	PA	15959	C
R & C HEAVY MECHANICAL INC	P O BOX 14624	READING	PA	19612	C
R & D DEVELOPMENT, INC.	P.O. BOX 107	PHILIPSBURG	PA	16866-0107	C
R & F NARDINI COAL CO.	213 WEST BERTSCH	LANSFORD	PA	18232	C
R & L DEVELOPEMENT CO	P O BOX 529	NEW ALEXANDRI	PA	15670	C
R A JONES & SONS	1600 STERLING STREET	COAL TOWNSHIP	PA	17866	C
R C KADYK CORP	PO BOX 733	SAXONBURG	PA	16056	C

R E M HAULING INC	1670 CURRY ROAD	SURTERSVILLE	PA	15083	C
R G JOHNSON CO INC	25 SOUTH COLLEGE STREET	WASHINGTON	PA	15301	C
R L MILLER AUGERING	PO BOX 176	MARION CENTER	PA	15759	C
R W B BELT SPLICING & SERVICES	160 ADLIN AVE	HOUSTON	PA	15342	C
R&L COAL CORP.	P.O. BOX 26	PUNXSUTAWNEY	PA	15767	AB
R&M DIESEL SERVICE	815 QUEMAHONING STREET	BOSWELL	PA	15531	C
R. RINDFUSS DRILLING	13881 ROUTE 19	WATERFORD	PA	16441	C
R.K.R. ENERGY, INC.	201 CLARK STREET	CURWENSVILLE	PA	16833	C
RAG AMERICAN COAL COMPANY	158 PORTAL ROAD, (P. O. BOX 1020)	WAYNESBURG	PA	15370	AB, P
RAG CUMBERLAND RESOURCES CORP.	855 KIRBY ROAD, RD 3 BOX 184	WAYNESBURG	PA	15370	E
RAG CUMBERLAND RESOURCES, LP	145 ELM DR.	WAYNESBURG	PA	15370	AB
RAL INC	453 SHERMAN AVE	WAYNESBURG	PA	15370	C
RALPH A ANDERSON TRUCKING	P O BOX 152	FRENCHVILLE	PA	16836	C
RALPH DITTMAN TRUCKING	BOX 185	BRUIN	PA	16022	C
RALPH HILLER COMPANY	6005 ENTERPRISE DRIVE	EXPORT	PA	15632	C
RALPH SMITH & SON, INC.	200 WEST SECOND STREET	DERRY	PA	15627	C
RAM SEPTIC SERVICE	R.D. 1, BOX 176	FALLS CREEK	PA	15840	C
RAMM COAL CO.	R.D. 1, BOX 16	ROCKTON	PA	15856	C
RANKIN'S AUTO WRECKING, INCORPORATED	R.D. #2, BOX 115A	RURAL VALLEY	PA	16249	C
RAWLEE FUELS, INC.	555 PHILADELPHIA STREET	INDIANA	PA	15701	AS
RAY I WINTERS & SONS INC	269 WINTERFIELD ROAD	INDIANA	PA	15701	C
RAY W. FISCUS BLASTING & PAINTING	R.D. 1, BOX 158	RURAL VALLEY	PA	16249	C
RAYMOND C HAYES TRUCKING INC	BOX 156	NU MINE	PA	16244	C
RBA GROUP	600 OLD POND ROAD #501	BRIDGEVILLE	PA	15241	C
READING & NORTHERN RAILROAD	P.O. BOX 218	PORT CLINTON	PA	19549	A
READING ANTHRACITE CO	200 MAHANTONGO ST	POTTSVILLE	PA	17901	A
RECK-BLACK INC	RD #2, BOX 257K	LIGONIER	PA	15658	C
RED OAK MINING CO.	745 YOUNG ROAD	WESTOVER	PA	16692	C
REED'S FARMS	R.D. 2, BOX 148	MAYPORT	PA	16240	C
REESE GREEN TRUCKING, INC.	RR 1, BOX 286	WOODLAND	PA	16881	C
REICHARD CONTRACTING INC.	212 OLEAN TRAIL	NEW BETHLEHEM	PA	16242	AB
RELIANCE ELECTRIC CO	320 RELIANCE DRIVE	WASHINGTON	PA	15301	C
RELIANT ENERGY SERVICES, INC.	1001 BROAD STREET	JOHNSTOWN	PA	15907	AS
REL-TEK CORPORATION	610 BEATTY ROAD	MONROEVILLE	PA	15146	E
RENNINGER ENTERPRISES	310 W MAIN STREET	TREMONT	PA	17981	C
RFI ENERGY INC	555 PLIADEPHIA ST	INDIANA	PA	15701	B
RICHARD BONANNO TRUCKING	P O BOX 105	PENFIELD	PA	15849	C

RICHARD C CRIBBS INC	RD#1 BOX 224	RURAL VALLEY	PA	16249	C
RICHARD E SMITH	RD 2 BOX 66	REYNOLDSVILLE	PA	15851	C
RICHARD KINTER	BOX 85	BELSANO	PA	15922	C
RICHARD LAWSON EXCAVATING INC.	3467 WASHINGTON AVENUE	FINLEYVILLE	PA	15332	C
RITCHIE WELDING	RD #7 BOX 141	PUNXSUTAWNEY	PA	15767	C
RITCO INC	360 VALLEY DR	SOMERSET	PA	15501	C
RIVER HILL COAL CO.		KYLERTOWN	PA	16847	AB
RIZZO & SON INDUSTRIAL SVC	BOX 96 ROUTE 553	MENTCLE	PA	15761	C
RKR ENTERPRISES, INC.	RR #1, BOX 206	GRAMPIAN	PA	16838	C
ROBERT C BEAR & SONS INC	2936 LIME KILN RD	BIRDSBORO	PA	19508	C
ROBERT CHIDESTER TRUCKING	1251 KEISTER ROAD	SLIPPERY ROCK	PA	16057	C
ROBERT MITCHELL COMPANY, INC.	P.O. BOX 37	PHILIPSBURG	PA	16866	C
ROBERTA BENTON	425 PINE ST	PORTAGE	PA	15946	C
ROBINSON PIPE CLEANING CO.	P O BOX 396	EIGHTY FOUR	PA	15330	C
ROCK CHIP DRILLING	RD 1, BOX 334	MORRISDALE	PA	16858	C
ROCKWOOD CASUALTY INSURANCE	654 MAIN STREET	ROCKWOOD	PA	15557	AS
RODGER E NIEMEYER SR	8939 JONES RD	WATTSBURGH	PA	16442	C
ROGER V. HIGBEE	3119 CREEKSIDE ROAD	INDIANA	PA	15701	C
ROHANNA IRON AND METAL INC.	RD 4, BOX 37	WAYNESBURG	PA	15370	C
RONALD BERGER TRUCKING	RD 3 BOX 252	BROOKVILLE	PA	15825	C
RONALD F. CROSEY TRUCKING	754 COLONIAL DRIVE	LILLY	PA	15938	C
RONALD VAN HORNE	1101 BALSAM DRIVE	WASHINGTON	PA	15301	C
ROSEBUD MINING CO.	301 MARKET STREET	KITTANNING	PA	16201	AB, P
ROSEBUD MINING CO.	RR 9, BOX 379A	KITTANNING	PA	16201	AB
ROSEBUD MINING COMPANY	1143 STONEY LONESOME ROAD	APOLLO	PA	15613	E
ROSIO COAL CO	243 E LOGAN AVE	DUBOIS	PA	15801	C
ROSSI EXCAVATING	9 WEST 15TH ST	HAZLETON	PA	18201	A, C
ROX COAL CO., INC.	P.O. BOX 149	FRIEDENS	PA	15541	AB, C
ROX COAL INC.	P.O. BOX 144	FRIEDENS	PA	15541	E
ROY W MAYS ELECTRIC	P O BOX 12	OLANTA	PA	16863	C
ROYAL HYDRAULIC SERVICE & MFG	TWO WASHINGTON ST BOX 122	COKEBURG	PA	15324	C
RUDD EQUIPMENT CO.	BLDG. 1 - AVE. A, BUNCHEM INDUSTRIAL DISTRICT (P. O. BOX 5)	LEETSDALE	PA	15056	AS
RUSNAK COAL CO.	STONEBORO RD., RTE 1	GROVE CITY	PA	16127	B
RUSSELL POSTUPAC CULM CO INC	HCR 32 BOX 17	HAZLETOWN	PA	18201	C
RUSSOLI TEMPS	325 N RIVER RD ST 203	WILKES BARRE	PA	18702	C
RUTHRAUFF INC	400 LOCUST ST	MCKEES ROCKS	PA	15136	C
RYON INSURANCE CO	200 NORWEGIAN ST	POTTSVILLE	PA	17901	A

S & H MINING CONSULTANTS	PO BOX 448	CARMICHELS	PA	15320	C
S W JACK DRILLING CO	P O BOX 697	INDIANA	PA	15701	C
SAMUEL E BENI EXCAVATING CONT	RD #2 BOX 1580	HOMER CITY	PA	15748	C
SARAH RESOURCES, INC.	132 SHOUP ROAD	NEW FLORENCE	PA	15944	C
SAUER-SUNDSTRAND/CONT CONCEPTS	FRMLY: CONTROL CONCEPTS,15 TERRY DRIVE	NEWTOWN	PA	18940	E
SAUPP'S EXCAVATING	PO BOX 142	SMITHMILL	PA	16680	C
SCHROCK AIR CONDITIONING	520 STEPPING STONE ROAD	SOMERSET	PA	15501	C
SCHROEDER INDUSTRIES	NICHOL AVENUE,P.O. BOX 72	MCKEES ROCKS	PA	15136	E, MT
SCHUYLKILL COAL PROCESSING,INC	P.O. BOX 134	ASHLAND	PA	17921	A
SCHUYLKILL CONTRACTING CO.INC.	906 VALLEY ROAD	POTTSVILLE	PA	17901	C
SCOTT'S LAWN SERVICE	1318 BELL SCHOOL ROAD	CREEKSIDE	PA	15732	C
SCURFIELD COAL, INC	228 MAIN ST.	BERLIN	PA	15530	AB
SEDGMAN	2090 GREENTREE RD	PITTSBURGH	PA	15220	C
SEDGMAN HOLDINGS LIMITED	2090 GREENTREE ROAD	PITTSBURGH	PA	15220	MT
SENATE COAL MINES INC.	P.O. BOX 61	HAMILTON	PA	15744	E
SENEX EXPLOSIVES	710 MILLERS RUN RD.	CUDDY	PA	15031	C
SERVE ALL INC	936 BEAVER GRADE ROAD, 2D FLOOR	MOON TOWNSHIP	PA	15108	C
SEVEN MAPLES	P O BOX 515	W MIDDLESEX	PA	16159	C
SEVEN SISTERS MINING CO., INC.	200 U.S. RT. 22	PELMONT	PA	15626- 0300	B
SHAMOKIN FILLER	P.O. BOX 568	SHAMOKIN	PA	17872	A
SHELLY FOUNDATION, INC.	900 ALLEGHENY AVE.	AVONMORE	PA	15618	C
SHERMAN COAL CO., INC.	P.O. BOX 93	ELYSBURG	PA	17824	A
SHICK'S STEAM & CLEAN	PO BOX 264 RD 4	PUNXSUTAWNEY	PA	15767	C
SHILOH INDUSTRIAL CONT.INC	204 COMMERCE BLVD BOX 603	LAWRENCE	PA	15055	C
SHIRLEY ANN TRUCKING	RD 1 BOX 135 C	FRENCHVILLE	PA	16836	C
SHIRLEY HEATING & AIR CONDITION	RR1, BOX 600K	SALTSBURG	PA	15681	C
SHORTWAY SERVICE, INCORPORATED	BOX 267	REYNOLDSVILLE	PA	15851	C
SHORTY'S TRUCK & EQUIPMENT REP	8509 ROUTE 954 HWY N	CREEKSIDE	PA	15732	C
SHUMARS WELDING & MACHINE SERV	RD #1 BOX 228 B	GRINDSTONE	PA	15442	C
SITE PRO INC	PO BOX 239	ALLENPORT	PA	15412	C
SKELLY AND LOY, INC., ENGINEERS & CONSULTANTS	2601 NORTH FRONT STREET	HARRISBURG	PA	17110	AS
SKY HAVEN COAL, INC.	RD. 1 BOX 180	MT. ZION	PA	15849	AB
SLICKERMAN WELDING	871 BROWNSTOWN HWY	STOYSTOWN	PA	15563	C
SMEGO'S REPAIR	1289 MAIN ST	HASTINGS	PA	16646	C
SMITH TRUCKING	RD #3 BOX 68	SMITHFIELD	PA	15478	C
SOMERSET STEEL ERECTION CO INC	BOX 98	BOSWELL	PA	15531	C
SOUTH TAMAQUA COAL POCKETS	RD 3 BOX 14	TAMAQUA	PA	18252	A

SPECTRUM TERRACONSULTANTS, CO.	P. O. BOX 928	SOMERSET	PA	15501	AS
SPECTRUM WELDING	16 REDDING RUN RD	HOME	PA	15747	C
SPERRY DRILLING SERVICE	1023 CUMBERLAND HWY	BERTIN	PA	15530	C
SPYROS PAINTING COMPANY	P.O. BOX 2193	PITTSBURGH	PA	15230	C
ST CLAIR CONTRACTING	323 VILLAGE RD	FRIEDENS	PA	15541	C
STAHURA CO INC	PO BOX 122 536 PITTSBURGH ST	SPRINGDALE	PA	15144	C
STANDARD LABORATORIES, INC.,	GOULD ENERGY DIVISION, GALLITZIN ROAD (P. O. BOX 214)	CRESSON	PA	16630	AS
STANLEY MOORE	RD 2, BOX 76, COUNTRY ROAD	DAYTON	PA	16222	C
STATE INDUSTRIES, INC.,	C.H. SNYDER CO., P. O. BOX 1022	KITTANNING	PA	16201	AB, P
STEAR AUGER MINING	BOX 108 STAR RT	SPRING CHURCH	PA	15686	C
STEEL CITY ENVIRONMENTAL SERVICES, INC.	P.O. BOX 98	ELIZABETH	PA	15037	C
STELL ENTERPRISES INC	23 BIRCH AVE	PLAINS	PA	18705	C
STEVENS PAINTON CORPORATION	150 TECHNOLOGY DRIVE	CANNONSBURG	PA	15317	C
STEWART TRUCKING	BOX 15	RINGOLD	PA	15770	C
STOCKDALE DRILLING & PUMP SVC.	RD #5 BOX 290	PUNXSUTAWNEY	PA	15767	C
STOCKDALE MINE SUPPLY, INC.	R. D. #5, BOX 115	PUNXSUTAWNEY	PA	15767	AS
STONE VALLEY CONSTRUCTION INC	P O BOX 369	PINE GROVE ML	PA	16868	C
STRATA SYSTEMS INC	P O BOX 338	BLAIRSVILLE	PA	15717	C
STRAWN SALES & SERVICE	549 EAST MAHONING	PUNXSUTAWNEY	PA	15767	C
STRISHOCK COAL CO.	220 HILLCREST DR.	DU BOIS	PA	15801	AB
STRUCTURED MINING SYSTEMS INC	180 PINE MEADOW DRIVE	WEXFORD	PA	15090	E
STUTZMAN ENTERPRISES	712 STUTZMAN ROAD	INDIANA	PA	15701	C
SUB-TECHNICAL INC	P O BOX 1178	MARS	PA	16046	C
SUBURBAN CONTRACTING INC	RD #2 BOX 149A	EXPORT	PA	15632	C
SUMMIT COAL CO.	RD 1 BOX 12A	KLINGERTOWN	PA	17941	A
SUMMITT ANTHRACITE, INC	652 MAIN ST.	GOOD SPRING	PA	17981	A
SUNSHINE FUEL CO	130 CEDARWOOD DRIVE	MONONGAHELA	PA	15063	C
SUPERIOR CONTRACTING	P.O. BOX 404	SMITHFIELD	PA	15478	C
SUPERIOR WELL SERVICES	P O BOX 458	BLACK LICK	PA	15716	C
SURFACE SYSTEMS INC	123 HILL ST	JENNERS	PA	15546	C
SVONAVEC, INC.	150 W. UNION ST., STE 201	SOMERSET	PA	15501	AB
SWANSON TRUCKING	RD #4, BOX 262	DUBOIS	PA	15801	C
T & L WELDING	RD #1, BOX 199E	KITTANNING	PA	16201	C
T E I ANALYTICAL SERVICES	PO BOX 534	WASHINGTON	PA	15301	C
T G BENDER WELDING	192 BUCK RD	EBBENSBURG	PA	15931	C
T PETERS CONSTRUCTION	RD #1 BOX 40B	SHELOCTA	PA	15774	C
T W B REPAIR SERVICE	192 DIVISION ROAD	PARKER	PA	16049	C

T. J. S. MINING, INC.	RD 1, BOX 260-D	SHELOCTA	PA	15774	AB
T.D. REESEMAN TRUCKING	P.O. BOX 535	RURAL VALLEY	PA	16249	C
TAMBURLIN BROS. COAL CO., INC.	RD. 1	BROCKPORT	PA	15823	AB
TANOMA COAL COMPANY INC.	600 RAYNE RUN ROAD	MARION CENTER	PA	15759	AS
TANOMA ENERGY, INC.	ONE ENERGY PLACE, STE. 1000	LATROBE	PA	15650-9628	AS
TANOMA MINING CO.	RR 1, BOX 594	MARION CENTER	PA	15759	AB, E
TARGET DRILLING INC.	5134 OAK ROAD	JEFFERSON HILL	PA	15025	E
TECHNICAL ELECTRICAL SERVICES	116 ACACIA DRIVE	BRIDGEVILLE	PA	15017	C
TECHNIFLO SYSTEMS	80 LEETSDALE INDUSTRIAL DRIVE	LEETSDALE	PA	15056	C
TERRA TESTING INC	260 MEADOWLANDS BLVD	WASHINGTON	PA	15301	C
TERRY DUNCAN WELDING	RD 3 BOX 178 C	CLEARFIELD	PA	16830	C
TERRY L. CAMPBELL TRUCKING	R.D. 3, BOX 140	BROOKVILLE	PA	15825	C
TERRY R REDDINGER INC.	P.O. BOX 57	DISTANT	PA	16223	C
TESONE TRANSPORT INC	PO BOX 89	TARENTUM	PA	15084	C
THAD PERRY DRILLING CO.	R.D. 5, BOX 74	PUNXSUTAWNEY	PA	15767	C
THE EADS GROUP	15392 ROUTE 322, (P. O. BOX 684)	CLARION	PA	16214	AS
THEODORE P. PYTASH	263 HEMLOCK SPRINGS ROAD	ARMAGH	PA	15920	C
THOMAS CALHOUN TRUCKING	RR 3 BOX 679	BROCKWAY	PA	15824	C
THOMAS L. CORMAN, SR.	BOX 61	VOLWINKLE	PA	16260	C
THOMAS M. MORRIS TRUCKING	7901 RIDGE ROAD	MAHAFFEY	PA	15757	C
THOMAS MCELHENY	P.O. BOX 56	BLANDBURG	PA	16619-0056	C
THOMAS TRUCKING & FARM	120 TEMPLE ROAD	GEORGETOWN	PA	15043	C
THREE S COAL CO.	P.O. BOX 337	STOYSTOWN	PA	15563	AB
THUR-O-CLEAN INC.	P.O. BOX 212, 3 SCHOOL STREET	RICES LANDING	PA	15357	C
TICO ELECTRIC, INC.	120 ATLANTIC AVENUE	MCKEESPORT	PA	15132	C
TJS MINING, INC.	R. D. #1, BOX 260-D	SHELOCTA	PA	15774	AB, E, P
TLJ ENTERPRISES	369 HILL SCHOOL HOUSE ROAD	WAYNESBURG	PA	15370	C
TOM PAYNTER MOBILE GLASS	370 EAST PIKE	INDIANA	PA	15701	C
TOM RITCHY TRANSPORT INC	P O BOX 786	SPANGLER	PA	15775	C
TONOMO MARINE INC.	36 ALLEGHENY SQUARE	GLASSPORT	PA	15045	C
TONY A. VADALA	RR1	WEST DECATUR	PA	16878	C
TONY'S MOBILE WASH	P.O. BOX 57	SHIPPENVILLE	PA	16254	C
TOTAL EQUIPMENT COMPANY	400 FIFTH AVENUE	CORAPOLIS	PA	15108	C
TOWNSEND GAS & OIL, INC.	1740 OLD ROUTE 119 SOUTH	HOMER CITY	PA	15748	C
TOY DRILLING COMPANY	BOX 110	DISTANT	PA	16223	C
TRAFFORD CORPORATION	550 FIFTH STREET EXT.	TRAFFORD	PA	15085	C
TRAFT CONSTRUCTION CO.	PO BOX 673	CONNELLSVILLE	PA	15425	C

TRANSTEK INC.	35 WILSON ST.	ETNA	PA	15223	M
TRIPLE S RECYCLING	23013 ROUTE 208	TIONESTA	PA	16353	C
TRI-STATE MINING SUPPLY INC	RD #2 PO BOX 486	SOMERSET	PA	15501	C
TRI-STATE SAFETY TRAINING SERVICES	476 BUTE ROAD	UNIONTOWN	PA	15401	C
TUSCARORA MINE & MINERALS	130 WALNUT ST	TUSCARORA	PA	17982	A
TYLER BLASTING	P O BOX 44	PENFIELD	PA	15849	C
U S GENERATING CO	1 HORWITH DR	NORTHAMPTON	PA	18067	A
U.S. FILTER OPERATING SERVICES	921 SAW MILL RUN BOULEVARD	PITTSBURGH	PA	15220	C
U.S. OPERATING SERVICES CO.	180 S MAIN ST.	PLAINS	PA	18705-1016	A
U.S. STEEL MINING CO., INC.	NORTHERN COAL DIVISION,600 GRANT ST; SUITE 1880	PITTSBURGH	PA	15219-2703	E
UAE COAL CORP	PO BOX 306	MT CARMEL	PA	17851	A
UNION BANK & TRUST CO.	25 SOUTH CENTRE STREET	POTTSVILLE	PA	17901	A
UNIONVALE COAL CO.	210 E. MAIN ST., (P.O. BOX 346)	LIGONIER	PA	15658	AS
UNITED INDUSTRIAL GROUP, INC.	290 MEADOWLANDS BOULEVARD	WASHINGTON	PA	15301	C
UNITED SAFETY SERVICES INC	416 E MAIN ST	CARNEGIE	PA	15106	C
UNITED SCIENCES INC	5310 N PIONEER ROAD	GIBSONIA	PA	15044	C
US ENVIRONMENTAL RESEARCH SERV.	1111 E. WALTON AVENUE, INDIANA PLAZA	ALTOONA	PA	16602	AS
US FILTER ENGINEER AND CONSTRUCTION	AIRSIDE BUSINESS PARK, 250 AIRSIDE DRIVE	MOON TOWNSHIP	PA	15108	C
VALLEY FENCE COMPANY, INC.	P.O. BOX 414	UNIONTOWN	PA	15401	C
VALLEY LINES INC	1395 SARVER ROAD	FREEPORT	PA	16229	C
VALLEY TIRE CO INC	2700 RT 422 WEST	INDIANA	PA	15701	C
VENTURA ENTERPRISES	BOX 138	DAISYTOWN	PA	15427	C
VICKI J. PARKS	RD 5, BOX 189	KITTANNING	PA	16201	C
VICTOR PRODUCTS USA	PARENT COMPANY IN ENGLAND,P. O. BOX 1980	CRANBERRY TWP	PA	16066	E
VIGNOLI WELDING SERVICE	1123 MARION ST	NEW EAGLE	PA	15067	C
VOTO MANUFACTURERS SALES CO.	1226 EAST MAIN STREET	CLARION	PA	16214	AS
W C FEGLEY TRUCKING	RD #5 BOX 127	SELINGROVE	PA	17870	C
W DUANE KISER TRUCKING	101 SO. 3RD AVE.	CLARION	PA	16214	C
W. W. ENGINE & SUPPLY INC	PO BOX 68	KYLERTOWN	PA	16847	C
W. M. WAGNER SALES CO., INC.	P O BOX 478	CARROLLTOWN	PA	15722	C
WACKENHUT CORP	4156 LIBRARY RD	PITTSBURGH	PA	15234	C
WALKER EQUIPMENT SALES	R.D. 1, BOX 9	OLANTA	PA	16863	C
WALTER L HAUSER COAL CO INC	13488 STATE RTE 422, STE 1	KITTANNING	PA	16201	B
WALTERS TIRE SERVICE INCORPORA	P.O. BOX 348	SOMERSET	PA	15501	C
WAMPUM HARDWARE CO.	636 PADEN ROAD	NEW GALILEE	PA	16141	AS, C
WARD UMBEL TRUCKING		MARKLEYSBURG	PA	15459	C

WARNER LABORATORIES INC	PO BOX 214	CRESSON	PA	16630	C
WAROQUIER COAL CO.	133 W. 5TH ST., P.O. BOX 128	CLEARFIELD	PA	16830	AB
WAROQUIER COAL CO., INC.	R. D. #4, WASHINTON AVENUE, (P. O. BOX 128)	CLEARFIELD	PA	16830	AB, P
WASH ON WHEELS	434 W. GREEN ST	CARMICHAELS	PA	15320	C
WASSON DRILLING	1357 PENINSULA DRIVE	CENTRAL CITY	PA	15926	C
WATKINS TRUCKING	2635 RAYNE CHURCH ROAD	INDIANA	PA	15701	C
WAYNESBURG GLASS & MIRROR	810 EAST HIGH STREET	WAYNESBURG	PA	15370	C
WDK ENTERPRISES, INC.	P.O. BOX 5	CORSICA	PA	15829	C
WEAVERTOWN ENVIROMENTAL GROUP	3866 MILLERS RUN ROAD	MCDONALD	PA	15057	C
WESTINGHOUSE ELECTRIC CORP.	1002 MCKEE ROAD	OAKDALE	PA	15071	C
WHITE ENERGY SERVICES	RD 6 BOX 30	UNIONTOWN	PA	15401	C
WHITE PINE COAL CO	BUNNY RUN HOLLOW RD	SHAMOKIN	PA	17872	A
WHITE TREE SERVICE	5 LAUREL RUN RD	WAYNESBURG	PA	15370	C
WHITFIELD MAINTENANCE	R.D. 1, BOX 676	OSCEOLA MILLS	PA	16666	C
WIEDENHOFT ELECTRIC	2091 LINCOLN HWY	BOSWELL	PA	15531	C
WILLIAM D MONROE SCALE CO.	P O BOX 14175	PITTSBURGH	PA	15239	C
WILLIAM DICKSON INDUSTRIES	P O BOX 326	LATROBE	PA	15650	C
WILLIAM E. JUNOD	RR 1, BOX 414	MAHAFFEY	PA	15757	C
WILLIAMS SCOTSMAN, INC.	455 MOON CLINTON ROAD	MOON TOWNSHIP	PA	15108	C
WILMORE COAL CO.	509 FIFTEENTH STREET	WINDBER	PA	15963	AB, P
WINGER WELDING CO.	R.D. 1, BOX 82	AVONMORE	PA	15618	C
WJP ENGINEERS INC	1406 LAUREL BLVD	POTTSVILLE	PA	17901	A
XEROX CONNECT, INC.	8 PENN CENTER WEST	PITTSBURGH	PA	15276	C
YANKO BROS. TRUCKING, INC.	300 PARKHILL DR.	JOHNSTOWN	PA	15909	C
YEAGER TRUCKING	1164 BONNER ROAD	ROSSITER	PA	15772	C
YENZI COAL CO.	P.O. BOX 287	ROSSITER	PA	15711	AB
YOHE ROOFING INC	3432 RT 136	FINLEYVILLE	PA	15332	C
ZORKOS ALTERNATOR SERVICE	30 WELLS ROAD	HOME	PA	15747	C
ZUBEK ENTERPRISES	905 MAIN ST	CENTRAL CITY	PA	15926	C
ZUBEK,INC.	173 HOUSE COAL ROAD	BERLIN	PA	15530- 8822	AB, P