CALGON CARBON CORPORATION Form 10-K

March 17, 2008

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 10-K

(Mark One)

x Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934. For the fiscal year ended December 31, 2007 or o Transition Report Pursuant to Section 12 or 15(d) of the Securities Exchange Act of 1934. For the transition period from to ...

Commission file number 1-10776

Calgon Carbon Corporation (Exact name of registrant as specified in its charter)

Delaware 25-0530110
(State or other jurisdiction of incorporation or organization)
(I.R.S. Employer Identification No.)

400 Calgon Carbon Drive
Pittsburgh, Pennsylvania
15205
(Address of principal executive offices)
(Zip Code)

Registrant's telephone number, including area code: (412) 787-6700

Securities registered pursuant to Section 12(b) of the Act:

Title of each class

Name of each exchange on which registered

Common Stock, par value \$0.01 per share

New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act: None (Title of class)

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes o No x

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Exchange Act.

Yes o No x

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

Yes x No o

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Yes o No x

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, or a non-accelerated filer. See definition of "accelerated filer and large accelerated filer" in Rule 12b-2 of the Exchange Act.

Large accelerated filer o Accelerated filer x Non-accelerated filer o

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes o No x

As of February 27, 2008, there were outstanding 40,741,795 shares of Common Stock, par value of \$0.01 per share.

The aggregate market value of the voting stock held by non-affiliates as of June 30, 2007 was \$404,150,071.

The following documents have been incorporated by reference:

<u>Document</u>	Form 10-K <u>Part Number</u>
Proxy Statement filed pursuant to Regulation 14A in connection with registrant's Annual Meeting of Shareholders to be held on May 1, 2008	III
2	

INDEX

PART I			
	Item 1.	Business	5
	Item 1A.	Risk Factors	18
	Item 1B.	Unresolved Staff Comments	29
	Item 2.	Properties	30
	Item 3.	Legal Proceedings	33
	Item 4.	Submission of Matters to a Vote of Security Holders	34
DADT H			
PART II		Moulest for Designant's Common Equity, Delated Chambeldon	
	I4 5	Market for Registrant's Common Equity, Related Shareholder	2.4
	Item 5.	Matters and Issuer Repurchases of Equity Securities	34
	Item 6.	Selected Financial Data	36
	T. 7	Management's Discussion and Analysis of Financial Condition	27
	Item 7.	and Results of Operations	37
	Item 7A.	Quantitative and Qualitative Disclosures about Market Risk	56
	Item 8.	Financial Statements and Supplementary Data	57
	item o.	Changes in and Disagreements with Accountants on Accounting	31
	Item 9.	and Financial Disclosure	126
	Item 9A.	Controls and Procedures	126
	Item 9B.	Other Information	126
	nem /b.	Other information	120
PART III			
		Directors, Executive Officers, and Corporate Governance of the	
	Item 10.	Registrant	127
	Item 11.	Executive Compensation	127
		Security Ownership of Certain Beneficial Owners and	
	Item 12.	Management and Related Shareholder Matters	128
		Certain Relationships, Related Transactions, and Director	
	Item 13.	Independence	129
	Item 14.	Principal Accounting Fees and Services	130
DADE IV			
PART IV	T. 15	E 1'1'	100
	Item 15.	Exhibits and Financial Statement Schedules	130
SIGNATURES			135
CERTIFICATIONS			
3			

Forward-Looking Information Safe Harbor

This Annual Report contains historical information and forward-looking statements. Forward-looking statements typically contain words such as "expect," "believes," "estimates," "anticipates," or similar words indicating that future outcomes are uncertain. Statements looking forward in time, including statements regarding future growth and profitability, price increases, cost savings, broader product lines, enhanced competitive posture and acquisitions, are included in this Annual Report pursuant to the "safe harbor" provision of the Private Securities Litigation Reform Act of 1995. They involve known and unknown risks and uncertainties that may cause the Company's actual results in future periods to be materially different from any future performance suggested herein. Further, the Company operates in an industry sector where securities values may be volatile and may be influenced by economic and other factors beyond the Company's control. Some of the factors that could affect future performance of the Company are higher energy and raw material costs, costs of imports and related tariffs, labor relations, capital and environmental requirements, changes in foreign currency exchange rates, borrowing restrictions, validity of patents and other intellectual property, and pension costs. In the context of the forward-looking information provided in this Annual Report, please refer to the discussions of risk factors and other information detailed in, as well as the other information contained in this Annual Report.

Explanatory Note

Effective December 31, 2006, The Company adopted Statement of Financial Accounting Standards No. 158, "Employers' Accounting for Defined Benefit Pension and Other Postretirement Plans, an amendment of FASB Statements Nos. 87, 88, 106 and 132(R)" ("SFAS No. 158"). SFAS No. 158 required the Company to record a transition adjustment to recognize the funded status of postretirement defined benefit plans, measured as the difference between the fair value of plan assets and the benefit obligations, in its balance sheet after adjusting for derecognition of the Company's minimum pension liability as of December 31, 2006. The Company complied with the provisions of SFAS No. 158; however, the Company incorrectly presented the effect of this transition adjustment as part of 2006 comprehensive income on its Consolidated Statements of Income (Loss) and Comprehensive Income (Loss) included in Item 8 of its Annual Report on Form 10-K for the fiscal year ended December 31, 2006. The impact of removing the SFAS No. 158 transition adjustment from the 2006 Consolidated Statements of Income (Loss) and Comprehensive Income (Loss) changes the reported comprehensive income (loss) from \$(3,935,000) to \$1,440,000. The Consolidated Statements of Income (Loss) and Comprehensive Income (Loss) set forth in Item 8: Financial Statements and Supplementary Data correctly presents 2006 comprehensive income (loss) excluding the SFAS No. 158 transition adjustment. The reported net loss of \$(7,798,000) for 2006 and the related loss per share of \$(.20) are unaffected by this change. There are no other changes to the Consolidated Statements of Income (Loss) and Comprehensive Income (Loss) included in the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2006, other than this correction of 2006 comprehensive income.

PART I

Item 1. Business:

The Company:

The Company is a global leader in services, products, and solutions for purifying water and air. The Company has three reportable segments: Activated Carbon and Service, Equipment, and Consumer. These reportable segments are composed of global profit centers that make and sell different products and services.

The Activated Carbon and Service segment manufactures granular activated carbon for use in applications to remove organic compounds from water, air, and other liquids and gases. The service aspect of the segment consists of the leasing, monitoring and maintenance of carbon adsorption equipment (explained below). The Equipment segment provides solutions to customers' air and water purification problems through the design, fabrication and operation of systems that utilize a combination of the Company's enabling technologies: carbon adsorption, ultraviolet ("UV") and advanced ion exchange separation ("ISEP®") among others. The Consumer segment primarily consists of the manufacture and sale of carbon cloth and new consumer products based on the Company's technologies already proven in large-scale industrial applications.

Acquisitions:

In May 2005, the Company formed a joint venture with C. Gigantic Carbon to provide carbon reactivation services to the Thailand market. The joint venture was named Calgon Carbon (Thailand) Ltd., and is 20% owned by the Company after an initial investment of \$0.2 million.

Discontinued Operations:

On February 4, 2005, the Company's Board of Directors approved a re-engineering plan presented by the Company. The plan included the divestiture of two non-core businesses in order to allow the Company to increase focus on its core activated carbon and service-related businesses. In the fourth quarter of 2005, management concluded such divestitures were probable, and the Company presents the following businesses as discontinued operations for all periods presented: Charcoal/Liquid in Bodenfelde, Germany and Solvent Recovery in Columbus, Ohio; Vero Beach, Florida; and Ashton, United Kingdom. The Charcoal/Liquid and Solvent Recovery businesses were reported in the Company's Consumer and Equipment segments, respectively.

On February 17, 2006, Calgon Carbon Corporation, through its wholly owned subsidiary Chemviron Carbon GmbH, executed an agreement (the "Charcoal Sale Agreement") with proFagus GmbH, proFagus Grundstuecksverwaltungs GmbH and proFagus Beteiligungen GmbH (as Guarantor) to sell, and sold, substantially all the assets, real estate, and specified liabilities of the Bodenfelde, Germany facility (the "Charcoal/Liquid business"). The facility includes the production of charcoal for consumer use and liquids that are recovered during charcoal production. The products are sold to retail and industrial markets. The aggregate sales price, based on an exchange rate of 1.19 Dollars per Euro, consisted of \$20.4 million of cash, which included a final working capital adjustment of \$1.3 million. The Company provided guarantees to the buyer related to pre-divestiture tax liabilities, future environmental remediation costs related to pre-divestiture activities and other contingencies. Management believes the ultimate cost of such guarantees is not material. An additional 4.25 million Euros could be received dependent upon the business meeting certain earnings targets over the next three years. No contingent consideration was received for the years ended December 31, 2007 and 2006. For the year ended December 31, 2006, the Company recorded a pre-tax gain of \$4.8 million or \$1.7 million, net of tax, on the sale of the Charcoal/Liquid divestiture.

On April 24, 2006, the Company completed the sale of the assets of its Solvent Recovery business to MEGTEC Systems, Inc. ("MEGTEC"), a subsidiary of Sequa Corporation. The Solvent Recovery unit provides turnkey on-site regenerable solvent recovery systems, distillation systems, on-site regenerable volatile organic compound concentrators, vapor-phase biological oxidation systems, and related services on a worldwide basis. The sales price of \$1.8 million included cash proceeds of approximately \$0.8 million and \$0.7 million of assumed liabilities, primarily accounts payable. The transaction was also subject to a pre-tax working capital adjustment of \$0.4 million, which management finalized and recorded in the fourth quarter of 2006. For the year ended December 31, 2006, the Company recorded a pre-tax gain of \$63 thousand or \$41 thousand, net of tax, on the sale of the Solvent Recovery business.

For further information, see Note 4 to the Financial Statements.

Products and Services:

The Company offers a diverse range of products, services, and equipment specifically developed for the purification, separation, and concentration of liquids, gases, and other media through its three business segments. The Activated Carbon and Service segment primarily consists of activated carbon products, field services, and reactivation. The Equipment segment designs and builds systems that include multiple technologies. The Consumer segment supplies carbon products for everyday use by consumers.

Activated Carbon and Service. The sale of activated carbon is the principal component of the Activated Carbon and Service business segment. Activated carbon is a porous material that removes organic compounds from liquids and gases by a process known as "adsorption." In adsorption, organic molecules contained in a liquid or gas are attracted and bound to the surface of the pores of the activated carbon as the liquid or gas is passed through.

The primary raw material used in the production of the Company's activated carbons is bituminous coal which is crushed, sized, and processed in low temperature bakers followed by high temperature furnaces. This heating process is known as "activation" and develops the pore structure of the carbon. Through adjustments in the activation process, pores of the required size for a particular purification application are developed. The Company's technological expertise in adjusting the pore structure in the activation process has been one of a number of factors enabling the Company to develop many special types of activated carbon with most available in several particle sizes. The Company also markets activated carbons from other raw materials, including coconut and wood.

The Company produces and sells a broad range of activated, impregnated or acid washed carbons in granular, powdered or pellet form. Granular Activated Carbon ("GAC") particles are irregular in shape and generally used in fixed filter beds for continuous flow purification processes. Powdered Activated Carbon ("PAC") is carbon which has been pulverized into powder and often used in batch purification processes, in municipal water applications, and for flue gas emissions control. Pelletized activated carbon has been extruded and each particle is cylindrical in shape. Pelletized carbon is typically used for gas phase applications because of the low pressure drop, high mechanical strength, and low dust content of the product.

Another important component of the Activated Carbon and Service business segment is the various services associated with the supply of products and systems for purification, separation, concentration, taste and odor control. These services include carbon reactivation, handling and transportation as well as the supply of equipment through leasing arrangements. The Company supplies complete process and treatment services at customers' facilities which are particularly suited for treating fluids or gases containing either or both non-hazardous or hazardous organic compounds. The service is based primarily on reactivation of spent carbon and transportation of activated carbon to and from the reactivation facility, but also includes feasibility testing, process design, on-site equipment, initial activated carbon supply, performance monitoring and major maintenance of Company-owned equipment (such equipment is referred to as "customer capital"). In the reactivation process, the spent carbon is subjected to high temperature re-manufacturing conditions that destroy the adsorbed organics and assure the activated carbon is returned to usable quality. This recycling is conducted at several locations throughout the world. Granular activated carbon is reactivated for environmental and economic reasons to destroy adsorbed organic compounds and also to conserve natural resources. The Company provides reactivation/recycling services in packages ranging from a fifty-five gallon drum to truckload quantities.

Purification services provided by the Company are used to improve the quality of food, chemical, pharmaceutical and petrochemical products. These services may be utilized in permanent installations or in temporary applications, such as pilot studies for a new manufacturing process or recovery of off-specification products.

Sales from continuing operations for the Activated Carbon and Service segment were \$295.6 million, \$265.3 million, and \$241.9 million for the years ended December 31, 2007, 2006, and 2005, respectively.

Equipment. The Company has a complete line of standardized, pre-engineered, adsorption systems - capable of treating liquid flows from 1 gpm to 1,400 gpm - which can be quickly delivered and easily installed at treatment sites. These self-contained adsorption systems are used for vapor phase applications such as volatile organic compound ("VOC") control, air stripper off-gases, and landfill gas emissions. Liquid phase equipment systems are used for applications of process purification, wastewater treatment, groundwater remediation, and de-chlorination. The Company also custom designs systems to solve unique treatment challenges, providing equipment for activated carbon, ion exchange resins or UV technologies each of which can be used for the purification, separation and concentration of liquids or gases.

More than 20 years ago, the Company introduced an advanced UV oxidation process to remediate contaminated groundwater. In 1998, the Company's scientists invented a UV disinfection process that could be used to inactivate Cryptosporidium, Giardia and other similar pathogens in surface water, rendering them harmless to humans. Effective in both drinking water and wastewater, UV light alters the DNA of pathogens, killing them or making it impossible for pathogens to reproduce and infect humans. In combination with hydrogen peroxide, UV light is effective in destroying many contaminants common in groundwater remediation applications. The Company continues to lead the market with innovative UV technologies with the Sentinel® line designed to protect municipal drinking water supplies from pathogens, the C3 SeriesTM open-channel wastewater disinfection product line for municipal wastewater disinfection, and Rayox® UV advanced oxidation equipment for treatment of contaminants such as 1,4-Dioxane, MTBE and Vinyl Chloride in groundwater, process water, and industrial wastewater.

UV oxidation equipment can also be combined with activated carbon to provide effective solutions for taste and odor removal in municipal drinking water. Backed by years of experience and extensive research and development, the Company can recommend the best solution for taste and odor problems, whether it's using activated carbon, UV oxidation, or both. The Company also offers a low cost, non-chemical solution for quenching excess peroxide after our advanced oxidation processes.

The Company also produces a wide range of odor control equipment which utilizes catalytic, activated carbon to control odors at municipal wastewater treatment facilities and pumping stations.

The proprietary ISEP® (Ionic Separator) continuous ion exchange units are used for the purification of many products in the food, pharmaceutical and biotechnology industries. These ISEP® Continuous Separator units perform ion exchange separations using countercurrent processing. The ISEP® and CSEP® (chromatographic separator) systems are currently used at over 300 installations worldwide in more than 40 applications including Good Manufacturing Processes ("GMP"), as well as removing nitrate and perchlorate contaminants from drinking water.

Sales from continuing operations for the Equipment segment were \$41.3 million, \$37.9 million, and \$36.9 million for the years ended December 31, 2007, 2006, and 2005, respectively.

Consumer. The primary product offered in the Consumer segment is carbon cloth. Carbon cloth, which is activated carbon in cloth form, is manufactured in the United Kingdom and sold to the medical and specialty markets.

Activated carbon and carbon cloth are used as the primary raw materials in the Company's consumer home products group. The Company currently has two primary product lines that it markets to the retail channel. The first product line, PreZerve® storage products, uses carbon cloth to protect and preserve jewelry and keepsakes from deterioration. The PreZerve® line currently offers over 40 different items. The second product line, AllGone®, is an odor elimination system that utilizes activated carbon discs to adsorb odors and impurities from the air safely and naturally.

Sales from continuing operations for the Consumer segment were \$14.2 million, \$13.0 million, and \$12.0 million for the years ended December 31, 2007, 2006 and 2005, respectively.

For further information, see Note 20 to the Financial Statements.

Markets:

The Company participates in five primary areas: Potable Water, Industrial Process, Food, Environmental Water and Air, and Specialty markets. Potable Water applications include municipal drinking water purification as well as point of entry and point of use devices. Applications in the Industrial Process markets include catalysis, product recovery and purification of chemicals, and pharmaceuticals as well as process water treatment. Food applications include brewing, bottling, and sweetener purification. Remediation of water and VOC removal from vapor are the major sub-segments for the Environmental markets. Medical, personal protection, cigarette, automotive, consumer, and precious metals applications comprise the Specialty markets.

Potable Water Market. The Company sells activated carbons, equipment, services, ion exchange technology and UV technologies to municipalities for the treatment of potable water to remove pesticides and other dissolved organic and inorganic material to meet or exceed current state or federal regulations and to remove tastes and odors to make the water acceptable to the public. The Company also sells to OEM manufacturers of home water purification systems. Granular and powdered activated carbon products are sold in this market and in many cases the granular carbon functions both as the primary filtration media as well as an adsorption media to remove the contaminants from the water. UV oxidation and disinfection systems are sold for the destruction or inactivation of waterborne contaminants and organisms.

Industrial Process Market. The Company's products used in industrial processing are used either for purification, separation or concentration of customers' products in the manufacturing process or for direct incorporation into the customers' products. The Company sells a wide range of activated carbons and reactivation services to the chemical, petroleum refining, and process industries for the purification of organic and inorganic chemicals, amine, antibiotics and vitamins. Activated carbon products and services are also used to decolorize chemicals such as hydrochloric acid and remove pollutants from wastewater. Further, activated carbon is used in treatment of natural gas, flue gas and other vapor streams for removal of carbon dioxide, acetylene, hydrogen, sulfur and mercury compounds. The liquefied natural gas industry uses activated carbons to remove mercury compounds which would otherwise corrode process equipment. Activated carbons are also sold for gasoline vapor recovery equipment.

Environmental Water and Air Market. Providing products used for the cleanup of contaminated groundwater, surface impoundments and accidental spills comprises the significant need in this market. The Company provides carbon, services, and carbon equipment for these applications as well as emergency and temporary cleanup services for public and private entities, utilizing both activated carbon adsorption and UV oxidation technologies.

The Company offers its products and services to private industry to meet stringent environmental requirements imposed by various government entities. The Company's reactivation/recycling service is an especially important element if the customer has contaminants which are hazardous organic chemicals. The hazardous organic chemicals which are adsorbed by the activated carbons are decomposed at the high temperatures of the reactivation furnace and thereby removed from the environment. Reactivation eliminates the customers' expense and difficulty in securing long-term containment (such as landfills) for hazardous organic chemicals.

Activated carbon is also used in the chemical, pharmaceutical, and refining industries for purification of air discharge to remove contaminants such as benzene, toluene, and other volatile organics. Reduction of mercury emissions from coal-fired power plants is a growing market for the Company. The planned re-start of B-line at its Catlettsburg, Kentucky plant to produce up to 70 million pounds of FLUEPAC® powdered activated carbon represents major progress in a multi-step program that would enable the Company to provide potentially hundreds of millions of pounds of powdered carbon to power companies.

Municipal sewage treatment plants purchase the Company's odor control systems and activated carbon products to remove objectionable odors emanating from plants and to treat the wastewater to meet operating requirements. Granular activated carbon is used as a filtration/adsorption medium and the powdered activated carbons are used to enhance the performance of existing biological waste treatment processes.

The Company's UV oxidation systems offer an ideal solution for groundwater remediation and the treatment of process water and industrial wastewater. The Company's Rayox® System is an industry staple for the destruction of organic compounds in groundwater. Rayox® is also used as a process water and wastewater treatment option for the removal of alcohol, phenol, acetone, TOC and COD/BOD.

Food Market. Sweetener manufacturers are a principal purchaser of the Company's products in the food industry. As a major supplier, the Company's specialty acid-washed activated carbon products are used in the purification of dextrose and high fructose corn syrup. Activated carbons are also sold for use in the purification of cane sugar. Other food processing applications include de-colorization and purification of many different foods and beverages and for purifying water, liquids and gas prior to usage in brewing and bottling. Continuous ion exchange systems are also used in this market for the production of lysine and vitamin E as well as purification of dextrose and high fructose corn syrup.

Specialty Markets. The Company is a major supplier of activated carbon to manufacturers of gas masks supplied to the United States and European military as well as protective respirators and collective filters for first responders and private industry. The markets for collective filters for military equipment, indoor air quality and air containment in incineration and nuclear applications are also served.

Other specialty applications using activated carbons include precious metals producers to recover gold and silver from low-grade ore, and cigarette manufacturers in charcoal filters. The Company's activated carbon cloth product is used in medical and other specialty applications.

Sales and Marketing:

The Company has a direct sales force in the United States with offices located in Pittsburgh, Pennsylvania; Santa Fe Springs, California; and Marlton, New Jersey. The Company conducts activated carbon related sales in Canada, Brazil, and Mexico through distributor relationships and maintains offices in Sao Paulo, Brazil and Mexico City, Mexico. The Company maintains offices in Singapore; Beijing and Shanghai, China; Taipei, Taiwan; and Tokyo, Japan (joint venture) to manage sales in the Asia Pacific Region.

In Europe, the Company has sales offices in Feluy, Belgium; Ashton and Houghton Le Spring, United Kingdom; and Beverungen, Germany. The Company also has a network of agents and distributors that conduct sales in certain countries in Europe, the Middle East, Africa, Latin America, the Far East, Australia and New Zealand.

All offices can play a role in sales of products or services from any of the Company's segments.

Geographic sales information can be found in Note 20 to the Financial Statements.

Over the past three years, no single customer accounted for more than 10% of the total sales of the Company in any year.

Backlog:

The Company had a sales backlog from continuing operations of \$11.8 million and \$17.1 million as of January 31, 2008 and 2007, respectively, in the Equipment segment. The Company expects to carry less than one-third of the 2008 balance into 2009.

Competition:

The Company has a major global presence with several competitors in the worldwide market with respect to the production and sale of activated carbon-related products: Norit, N.V., a Dutch company, Mead/Westvaco Corporation, a United States company and Siemens Water, a United States company, are the primary competitors. Chinese producers of coal-based activated carbon and certain East Asian producers of coconut-based activated carbon participate in the market on a worldwide basis and sell principally through numerous resellers. Competition in activated carbons, carbon equipment and services is based on quality, performance and price. Other sources of competition for the Company's activated carbon services and systems are alternative technologies for purification, filtration, and extraction processes that do not employ activated carbons.

A number of other smaller competitors engage in the production and sale of activated carbons in local markets, but do not compete with the Company on a global basis. These companies compete with the Company in the sale of specific types of activated carbons, but do not generally compete with a broad range of products in the worldwide activated carbon business.

In the United States and Europe, the Company competes with several small regional companies for the sale of its reactivation services and carbon equipment.

The Company's UV technologies product line competitors include Trojan Technologies, Inc., a Canadian company owned by Danaher Corporation, a United States Company, and Wedeco Ideal Horizons, a German company owned by ITT Industries, a United States company.

Raw Materials:

The principal raw material purchased by the Company for its Activated Carbon and Service segment is bituminous coal from mines in the Appalachian Region and mines outside the United States, usually purchased under both long-term and annual supply contracts.

The Company purchases natural gas from various suppliers for use in its Activated Carbon and Service segment production facilities. In both the United States and Europe, substantially all natural gas is purchased pursuant to various annual and multi-year contracts with natural gas companies.

The Company purchases hydrogen peroxide via an annual supply contract for its UV technologies business.

The only other raw material that is purchased by the Company in significant quantities is pitch, which is used as a binder in the carbon manufacturing process. The Company purchases pitch from various suppliers in the United States and China, under annual supply contracts and spot purchases.

The purchase of key equipment components is coordinated through agreements with various suppliers.

Recent increases in coal prices and worldwide coal demand, as well as increased transportation costs, have provided the Company's coal suppliers with added incentives to avoid their contractual obligations in some cases. However, to date, the Company's coal suppliers have not breached their contracts. The Company does not presently anticipate any problems in obtaining adequate supplies of its other raw materials or equipment components.

Research and Development:

The Company's primary research and development activities are conducted at a research center in Pittsburgh, Pennsylvania. This facility is used for the evaluation of experimental activated carbon and equipment and application development. Experimental systems are also designed and evaluated at this location. Facilities in Ashton, United Kingdom supplement the work performed in Pittsburgh.

The principal goals of the Company's research program are to improve the Company's position as a technological leader in solving customers' problems with its products, services and equipment; develop new products and services; and provide technical support to customers and operations of the Company.

The Company's research programs include new and improved methods for manufacturing and utilizing new and enhanced activated carbons. New activated carbons are developed to address specific needs for a given market. For example, in response to the needs of power plants for a carbon for mercury removal from flue gas, four new products have been developed and field tested. Two of these products address the specific needs of utilities that use their fly ash as a concrete supplement. Research and development activities also include the Company's Ion Exchange and UV technologies. A regenerable resin for perchlorate removal has been successfully piloted using a licensed technology. Commercial systems are now being proposed. Expansion of the UV technologies product line continued in 2007 with the development of a new Sentinel® reactor and an innovative Advanced Oxidation reactor. Improvements to the equipment design continue and additional patent applications have been filed.

Research and development expenses were \$3.7 million, \$4.2 million, and \$4.5 million in 2007, 2006 and 2005, respectively.

Patents and Trade Secrets:

The Company possesses a substantial body of technical knowledge and trade secrets and owns 61 United States patent applications and/or patents and 205 patent applications and/or patents in other countries. The issued United States and foreign patents expire in various years from 2008 through 2025.

The technology embodied in these patents, trade secrets and technical knowledge applies to all phases of the Company's business including production processes, product formulations and application engineering. The Company considers this body of technology important to the conduct of its business.

Regulatory Matters:

USA. The Company is subject to extensive environmental laws and regulations concerning emissions to the air, discharges to waterways and the generation, handling, storage, transportation, treatment and disposal of waste materials and is also subject to other federal and state laws regarding health and safety matters. The Company believes it is presently in substantial compliance with these laws and regulations. These laws and regulations are constantly evolving, and it is impossible to predict the effect these laws and regulations may have on the Company in the future.

The U.S. Environmental Protection Agency ("EPA") has issued certain regulations under the Resource Conservation and Recovery Act ("RCRA") dealing with the transportation, storage and treatment of hazardous waste that impact the Company in its carbon reactivation services. When activated carbon supplied to a customer can no longer cost-effectively adsorb contaminants, it is returned to the Company's facilities for reactivation and subsequent reuse. If the substance(s) adsorbed by the spent carbon is (are) considered hazardous, under these EPA regulations the activated carbon used in the treatment process is also considered hazardous. Therefore, a permit is required to transport the hazardous carbon to the Company's facility for reactivation. The Company possesses the necessary federal and state permits to transport hazardous waste. At the Company's reactivation sites, the hazardous spent activated carbon is placed in temporary storage tanks. Under the EPA regulations, the Company is required to have a hazardous waste storage permit. The Company has obtained RCRA Part B permits to store hazardous waste at its Pittsburgh and Catlettsburg facilities. The process of reactivating the spent activated carbon, which destroys the hazardous organic substances, is regulated under RCRA interim status standards for thermal treatment units until a RCRA Part B permit for a Subpart X miscellaneous treatment unit is issued by the EPA or an authorized state. The Company has been issued a Part B permit for the reactivation process at the Pittsburgh facility. The Company has filed for a Part B treatment permit at its Catlettsburg facility and is operating under the interim status standards while working toward obtaining the permit with the relevant government agencies. The Company does not accept carbons containing certain hazardous materials for reactivation.

Each of the Company's U.S. production facilities has permits and licenses regulating air emissions and water discharges. All of the Company's U.S. production facilities are controlled under permits issued by local, state and federal air pollution control entities. The Company is presently in compliance with these permits. Continued compliance will require administrative control and will be subject to any new or additional standards. In May 2003, the Company partially discontinued operation of one of its three activated carbon lines at its Catlettsburg, Kentucky facility known as B-line. The Company will need to install pollution abatement equipment in order to remain in compliance with state requirements regulating air emissions before resuming full operation of B-line. On January 15, 2008, the Company announced its intention to restart B-line. The Company estimates it will invest approximately \$20.0 million in this line and that the project is estimated to be completed in early 2009.

In conjunction with the February 2004 purchase of substantially all of Waterlink's operating assets and the stock of Waterlink's U.K. subsidiary, several environmental studies were performed on the Columbus, Ohio property by environmental consulting firms which identified and characterized areas of contamination. In addition, these firms identified alternative methods of remediating the property, identified feasible alternatives and prepared cost evaluations of the various alternatives. The Company concluded from the information in the studies that a loss at this property is probable and recorded the liability as a component of noncurrent other liabilities in the Company's consolidated balance sheet. At December 31, 2005, the balance recorded was \$5.3 million. Liability estimates are based on an evaluation of, among other factors, currently available facts, existing technology, presently enacted laws and regulations, and the remediation experience of other companies. During the first four months of 2006, the Company undertook a process of evaluating contractors and securing bids to perform the remediation work on the Columbus, Ohio property. As a result of the evaluation of the additional information gathered during that process, the Company reduced its estimate of its liability by \$1.3 million to \$4.0 million as of December 31, 2006. The reduction of the liability was recorded as a reduction of selling, general and administrative expenses on the Company's condensed consolidated statement of operations for the year ended December 31, 2006. The Company has not incurred any environmental remediation expense for the year ended December 31, 2007 and has incurred a total of \$0.2 million of environmental remediation expense to date. It is reasonably possible that a change in the estimate of this obligation will occur as remediation preparation and remediation activity commences. The ultimate remediation costs are dependent upon among other things, the requirements of any state or federal environmental agencies, the remediation methods employed, the final scope of work being determined, and the extent and types of contamination which will not be fully determined until experience is gained through remediation and related activities. The accrued amounts are expected to be paid out over the course of several years once work has commenced. The Company has not yet determined when it will proceed with remediation efforts.

In January 2007, the Company received a Notice of Violation ("NOV") from the United States Environmental Protection Agency, Region 4 ("EPA") alleging multiple violations of the Federal Resource Conservation and Recovery Act and corresponding EPA and Kentucky Department of Environmental Protection ("KYDEP") hazardous waste management rules and regulations. The alleged violations are based on information provided by the Company during and after a Multi Media Compliance Evaluation inspection of the Company's Big Sandy Plant, located in Catlettsburg, Kentucky, conducted by the EPA and the KYDEP in September 2005, and concern the hazardous waste spent activated carbon regeneration facility located at the Big Sandy Plant. The Company submitted its initial written response to the NOV in June 2007. In August 2007, the EPA notified the Company that it believes there are significant RCRA violations that are unresolved by the information in the Company's submittals. The Company met with the EPA in December 2007 to discuss alleged violations. The EPA indicated at the meeting that it would evaluate its enforcement options and expects to contact the Company within the next several months to explore a resolution. The EPA can take formal enforcement action to require the Company to remediate alleged violations, which could involve the assessment of substantial civil penalties as well. The Company is awaiting further response from the EPA and cannot predict with any certainty the probable outcome of this matter or range of potential loss, if any.

In June 2007, the Company received a Notice Letter from the New York State Department of Environmental Conservation ("NYSDEC") stating that the NYSDEC has determined that the Company is a Potentially Responsible Party ("PRP") at the Frontier Chemical Processing Royal Avenue Site in Niagara Falls, New York (the "Site"). The Notice Letter requests that the Company and other PRPs develop, implement and finance a remedial program for Operable Unit #1 at the Site. Operable Unit #1 consists of overburden soils and overburden and upper bedrock groundwater. The selected remedy is removal of above grade structures and contaminated soil source areas, installation of a cover system, and ground water control and treatment, estimated to cost between approximately \$11 million and \$14 million, which would be shared among the PRPs. The Company has not determined what portion of the costs associated with the remedial program it would be obligated to bear, therefore the Company cannot predict with any certainty the outcome of this matter or range of potential loss. The Notice Letter also demands payment of all monies that the NYSDEC has already expended for investigation and remediation of the Site, but does not specify the amount that the NYSDEC has expended.

In July 2007, the Company received an NOV from the KYDEP alleging that the Company has violated the KYDEP's hazardous waste management regulations in connection with the Company's hazardous waste spent activated carbon regeneration facility located at the Big Sandy Plant in Catlettsburg, Kentucky. The NOV alleges that the Company has failed to correct deficiencies identified by the KYDEP in the Company's Part B hazardous waste management facility permit application and related documents and directs the Company to submit a complete and accurate Part B application and related documents and to respond to the KYDEP's comments which are appended to the NOV. The Company submitted a response to the NOV and the KYDEP's comments in December 2007. The KYDEP has not indicated whether or not it will take formal enforcement action, and has not specified a monetary amount of civil penalties it might pursue in any such action, if any. On October 18, 2007, the Company received an NOV from the EPA related to this permit application and submitted a revised application to both the KYDEP and the EPA within the mandated timeframe. At this time the Company cannot predict with any certainty the outcome of this matter or range of loss, if any.

Europe. The Company is also subject to various environmental health and safety laws and regulations at its facilities in Belgium, Germany, and the United Kingdom. These laws and regulations address substantially the same issues as those applicable to the Company in the United States. The Company believes it is presently in substantial compliance with these laws and regulations.

Indemnification. The Company has a limited indemnification agreement with the previous owner of the Company which will fund certain environmental costs if they are incurred at the Company's Catlettsburg, Kentucky plant. The Company believes that the amount of the indemnification is sufficient to fund these liabilities if they arise.

Employee Relations:

As of December 31, 2007, the Company employed 868 persons on a full-time basis, 591 of whom were salaried production, office, supervisory and sales personnel. The United Steelworkers represent 216 hourly personnel in the United States. The current contracts with the United Steelworkers expire on April 1, 2009 and February 15, 2010, at the Catlettsburg, Kentucky and Columbus, Ohio facilities, respectively. The Contract with the United Steelworkers for the Company's Neville Island plant located in Pittsburgh, Pennsylvania terminated on February 29, 2008 following two extensions of the expiring agreement. The Company is operating this facility with its salaried employees and temporary replacement workers until a new agreement is reached. The 61 hourly personnel at the Company's Belgian facility are represented by two national labor organizations with contracts expiring on July 31, 2009. The Company also has hourly employees at three non-union United Kingdom facilities, one non-union United States facility located in Mississippi, and at two non-union China facilities.

Copies of Reports:

The periodic and current reports of the Company filed with the SEC pursuant to Section 13(a) of the Securities Exchange Act of 1934 are available free of charge, as soon as reasonably practicable after the same are filed with or furnished to the SEC, at the Company's website at www.calgoncarbon.com. All other filings with the SEC are available on the SEC's website at www.sec.gov.

Copies of Corporate Governance Documents:

The following Company corporate governance documents are available free of charge at the Company's website at www.calgoncarbon.com and such information is available in print to any shareholder who requests it by contacting the Secretary of the Company at 400 Calgon Carbon Drive, Pittsburgh, PA 15205.

Corporate Governance Guidelines
 Audit Committee Charter
 Compensation Committee Charter
 Governance Committee Charter
 Code of Ethical Business Conduct

· Code of Ethical Business Conduct Supplement for Chief Executive and Senior Financial Officers

Item 1A. Risk Factors:

Risks relating to our business

Our pension plans are currently underfunded, and we expect to be subject to significant increases in pension contributions to our defined benefit pension plans, thereby restricting our cash flow.

We sponsor various pension plans in the United States and Europe that are underfunded and require significant cash payments. We contributed \$5.4 million and \$9.2 million to our U.S. Pension plans and \$2.4 million and \$2.2 million to our European pension plans in 2007 and 2006, respectively. We currently expect to contribute approximately \$3.7 million to our U.S. pension plans and \$2.5 million to our European pension plans in 2008. If our cash flow from operations is insufficient to fund our worldwide pension liability, we may be forced to reduce or delay capital expenditures, seek additional capital or restructure or refinance our indebtedness.

The funding status of our pension plans is determined using many assumptions, such as inflation, investment rates, mortality, turnover and interest rates, any of which could prove to be different than projected. If the performance of the assets in our pension plans does not meet our expectations, or if other actuarial assumptions are modified, or not realized, we may be required to contribute more to our pension plans than we currently expect. For example, an approximate 25-basis point decline in the funding target interest rate under Section 730 of the Internal Revenue Code, as added by the Pension Protection Act of 2006 for minimum funding requirements, would increase our minimum required contributions to our U.S. pension plans by approximately \$1.0 million to \$1.5 million over the next three years.

Our pension plans in the aggregate are underfunded by approximately \$24 million as of December 31, 2007 (based on the actuarial assumptions used for SFAS No. 87, "Employers' Accounting for Pensions," purposes and comparing our projected benefit obligation to the fair value of plan assets) and required a certain level of mandatory contributions as prescribed by law. Our U.S. pension plans, which were underfunded by approximately \$11 million as of December 31, 2007, are subject to ERISA. In the event our U.S. pension plans are terminated for any reason while the plans are less than fully funded, we will incur a liability to the Pension Benefit Guaranty Corporation that may be equal to the entire amount of the underfunding at the time of the termination. In addition, changes in required pension funding rules that were affected by the enactment of the Pension Protection Act of 2006 will significantly increase our funding requirements beginning in 2008, which will have an adverse effect on our cash flow and could require us to reduce or delay our capital expenditures, seek additional capital or restructure or refinance our indebtedness. See Note 13 to our consolidated financial statements contained in Item 8 of this Annual Report.

Our financial results could be adversely affected by an interruption of supply or an increase in coal prices.

We use bituminous coal as the main raw material in our granular activated carbon production process. We estimate that coal will represent approximately 38% of our carbon product costs in 2008. We have various annual and multi-year contracts in place for the supply of coal that expire at various intervals from 2008 to 2011. Interruptions in coal supply caused by mine accidents, labor disputes, transportation delays, breach of supplier contractual obligations, or other events for other than a temporary period could have an adverse effect on our being able to meet our customer demand. In addition, increases in the prices we pay for coal under our supply contracts could adversely affect our financial results by significantly increasing production costs. During 2007, our aggregate costs for coal increased by \$1.3 million, or 8.4%, compared to 2006. Based upon the estimated usage of coal in 2008, a hypothetical 10% increase in the price of coal would result in \$1.2 million of additional pre-tax expenses to us. We may not be able to pass through raw materials price increases to our customers

Our financial results could be adversely affected by shortages in energy supply or increases in energy costs.

The price for and availability of energy resources could be volatile as it is affected by political and economic conditions that are outside our control. We utilize natural gas as a key component in our activated carbon manufacturing process and have annual and multi-year contracts for the supply of natural gas at each of our major facilities. If shortages of or restrictions on the delivery of natural gas occur, production at our activated carbon facilities would be reduced, which could result in missed deliveries or lost sales. We also have exposure to fluctuations in energy costs as they relate to the transportation and distribution of our products. For example, natural gas prices have increased significantly in recent years. We may not be able to pass through natural gas and other fuel price increases to our customers.

Increases in U.S. and European imports of Chinese or other foreign manufactured activated carbon could have an adverse effect on our financial results.

We face pressure and competition in our U.S. and European markets from brokers of low cost imported activated carbon products, primarily from China. We believe we offer the market technically superior products and related customer support. However in some applications, low cost imports have become accepted as viable alternatives to our products because they have been frequently sold at less than fair value in the market. If the markets in which we compete experience an increase in these imported low cost carbons, especially if sold at less than fair value, we could see declines in net sales. In addition, the sales of these low cost activated carbons may make it more difficult for us to pass through raw material price increases to our customers.

In response to a petition from the U.S. activated carbon industry filed in March 2006, the United States Department of Commerce (the "DOC") announced the imposition of anti-dumping duties starting in October 2006. The DOC announcement was based on extensive economic analysis of the operations and pricing practices of the Chinese producers and exporters. The DOC announcement required U.S. Customs and Border Protection to require importers of steam activated carbon from China to post a provisional bond or cash deposit in the amount of the duties. The anti-dumping duties are intended to offset the amount by which the steam activated carbon from China is sold at less than fair value in the U.S.

In March 2007, the International Trade Commission (the "ITC") determined that these unfairly priced steam activated carbon imports from China caused material injury to the U.S. activated carbon industry. This affirmative decision by the ITC triggered the imposition of significant anti-dumping duties in the form of cash deposits, ranging from 62 % to 228 %. The anti-dumping duties will be imposed for at least five years but are subject to periodic review within that time frame. The first review period begins April 2008. The significant anti-dumping duties imposed by the DOC and the affirmative decision by the ITC has had an adverse impact on the cost of Chinese manufactured activated carbon imported into the U.S. However, the anti-dumping duties could be reduced or eliminated in the future, which could adversely affect demand or pricing for our product.

Our inability to successfully negotiate new collective bargaining agreements upon expiration of the existing agreements could have an adverse effect on our financial results.

We have collective bargaining agreements in place at four of our production facilities covering approximately 32% of our full-time workforce as of December 31, 2007. Those collective bargaining agreements expire from 2008 through 2010. Any work stoppages as a result of disagreements with any of the labor unions or our failure to renegotiate any of the contracts as they expire could disrupt production and significantly increase product costs as a result of less efficient operations caused by the resulting need to rely on temporary labor. For example, our contract with the United Steelworkers for the Company's Neville Island plant located in Pittsburgh, Pennsylvania terminated on February 29, 2008 following two extensions of the expiring agreement. The Company is operating this facility with its salaried employees and temporary replacement workers until a new agreement is reached.

We have operations in multiple foreign countries and, as a result, are subject to foreign exchange translation risk, which could have an adverse effect on our financial results.

We conduct significant business operations in several foreign countries. Of our 2007 net sales, approximately 45% were sales to countries other than the United States, and 2007 net sales denominated in non-U.S. dollars represented approximately 34% of our overall net sales. We conduct business in the local currencies of each of our foreign subsidiaries or affiliates. Those local currencies are then translated into U.S. dollars at the applicable exchange rates for inclusion in our consolidated financial statements. The exchange rates between some of these currencies and the U.S. dollar in recent years have fluctuated significantly and may continue to do so in the future. Changes in exchange rates, particularly the strengthening of the U.S. dollar, could significantly reduce our sales and profitability from foreign subsidiaries or affiliates from one period to the next as local currency amounts are translated into fewer U.S. dollars.

Our European and Japanese activated carbon businesses are sourced from both the United States and China, which subjects these businesses to foreign exchange transaction risk.

Our only production facilities for virgin granular activated carbon are in the United States and China. Those production facilities are used to supply all of our global demand for virgin granular activated carbon. All of our foreign operations purchase from the U.S. and China operations in U.S. dollars yet sell in local currency, resulting in foreign exchange transaction risk. We generally execute foreign currency derivative contracts of not more than one year in duration to cover a portion of our known or projected foreign currency exposure. However, those contracts do not protect us from longer term-trends of a strengthening U.S. dollar, which could significantly increase our cost of activated carbon delivered to our European and Japanese markets, and we may not be able to offset these costs by increasing our prices.

Our business includes capital equipment sales which could have extreme fluctuations due to the cyclical nature of that type of business.

Our Equipment segment represented approximately 12% of our 2007 net sales. This business generally has a long project life cycle from bid solicitation to project completion and often requires customers to make large capital commitments well in advance of project execution. In addition, this business is usually affected by the general health of the overall economy. As a result, sales and earnings from the Equipment segment could be volatile.

We could find it difficult to fund the capital needed to complete our growth strategy due to borrowing restrictions under our current credit facility.

We are extended credit under our current credit facility subject to compliance with certain financial covenants. For example, our current credit facility contains various affirmative and negative covenants, including limitations on us with respect to our ability to pay dividends, make loans, incur indebtedness, grant liens on our property, engage in certain mergers and acquisitions, dispose of assets and engage in certain transactions with our affiliates. Borrowing availability under our current credit facility is based on the value, from time to time, of certain of our accounts receivable, inventory, and equipment. As a result, these restrictions may prevent us from being able to borrow sufficient funds under our current credit facility to meet our future capital needs, and alternate financing on terms acceptable to us may not be available.

If our liquidity would remain constrained for more than a temporary period, we may need to either delay certain strategic growth projects or access higher cost capital markets in order to fund our projects, which may adversely affect our financial results.

Our required capital expenditures may exceed our estimates.

Our capital expenditures were \$11.8 million in 2007, primarily including improvements to our manufacturing facilities and equipment to be utilized in our service business. Future capital expenditures may be significantly higher and may vary substantially if we are required to undertake certain actions to comply with new regulatory requirements or compete with new technologies. We may not have the capital to undertake these capital investments. If we are unable to do so, we may not be able to effectively compete.

Our financial results could be adversely affected by the continued idling of one of our reactivation facilities.

In January 2006, we announced the temporary idling of our reactivation facility in Blue Lake, California. It is our intention to resume operation of the plant in the future as market conditions warrant it. If management should determine not to restart the plant, operating results would be adversely affected by impairment charges.

Declines in the operating performance of one of our business segments could result in an impairment of the segment's goodwill.

As of December 31, 2007, we had consolidated goodwill of approximately \$27.8 million recorded in our business segments, primarily from our Activated Carbon and Service and Equipment segments. We test our goodwill on an annual basis or when an indication of possible impairment exists in order to determine whether the carrying value of our assets is still supported by the fair value of the underlying business. To the extent that it is not, we are required to record an impairment charge to reduce the asset to fair value. For the year ended December 31, 2006, we recorded a \$6.9 million impairment charge associated with our UV equipment reporting unit, principally as a result of the fourth quarter decision by the Federal Court of Canada, which found that our patent for the use of UV light to prevent infection from Cryptosporidium in drinking water is invalid. As a result, our estimate of future royalty income used in determining the fair value of the reporting unit declined substantially from the prior year. A decline in the operating performance of any of our business segments or sale of a business at an amount less than book value could result in a goodwill impairment charge which could have a material effect on our financial results.

Delays in enactment of new state or federal regulations could restrict our ability to reach our strategic growth targets and lower our return on invested capital.

Our strategic growth initiatives are reliant upon more restrictive environmental regulations being enacted for the purpose of making water and air cleaner and safer. If stricter regulations are delayed or are not enacted or enacted but subsequently repealed or amended to be less strict, or enacted with prolonged phase-in periods, our sales growth targets could be adversely affected and our return on invested capital could be reduced.

For example, stricter regulations surrounding the treatment of Cryptosporidium and other disease causing microorganisms in drinking water, as addressed by the EPA's promulgation of the Long Term 2 Enhanced Surface Water Treatment Rule ("LT2"), were expected to be effective as of the fourth quarter of 2004. LT2 was not ultimately published in the Federal Register until January 2006, thus delaying municipalities' requirements for testing and any subsequent need to fund a plan for remediation by over a year. The effect has been a delay in the timing of the expected growth for our UV equipment business.

The Company has also anticipated increased demand for powdered activated carbon products beginning in 2009 that would be driven by the EPA's Clean Air Mercury Rule, which established an emissions trading system to reduce mercury emissions from coal-fired power plants by approximately 70% over a 10 year period. On February 8, 2008, the United States Circuit Court of Appeals for the District of Columbia vacated the Clean Air Mercury Rule. Additional appeals, litigation, and regulatory proceedings could defer implementation of another EPA mercury reduction regulation for years, although any such regulation could be substantially more stringent, leading to higher than expected demand for the Company's products at a later date. Even if adoption of a new Clean Air Mercury Rule is delayed indefinitely by the legal and regulatory process, existing federal and state laws and regulations, as well as federal legislation introduced in response to the Court of Appeals decision and new litigation, could result in substantially more stringent regulation, resulting in higher-than expected demand for the Company's products, within the near future. The Company is unable to predict with certainty when and how the outcome of these complex legal, regulatory and legislative proceedings will affect demand for its products.

Our industry is highly competitive. If we are unable to compete effectively with competitors having greater resources than we do, our financial results could be adversely affected.

Our activated carbon business faces significant competition from Norit N.V., Westvaco Corporation and Siemens Water, together with Chinese producers. Our UV technology products face significant competition from Trojan Technologies, Inc., which is owned by Danaher Corporation, and Wedeco Ideal Horizons, which is owned by ITT Industries. In each case, our competitors include major manufacturers and diversified companies, a number of which have revenues and capital resources exceeding ours, which they may use to develop more advanced or more cost-effective technologies, increase market share or leverage their distribution networks. We may experience reduced net sales as a result of having fewer resources than these competitors.

Encroachment into our markets by competitive technologies could adversely affect our financial results.

Activated carbon is utilized in various applications as a cost-effective solution to solve customer problems. If other competitive technologies, such as membranes, ozone and UV, are advanced to the stage in which such technologies could cost effectively compete with activated carbon technologies, we could experience a decline in net sales, which could adversely affect our financial results.

Failure to innovate new products or applications could adversely affect our ability to meet our strategic growth targets.

Part of our strategic growth and profitability plans involve the development of new products or new applications for our current products in order to replace more mature products or markets that have seen increased competition. If we are unable to develop new products or applications, our financial results could be adversely affected.

A planned or unplanned shutdown at one of our production facilities could have an adverse effect on our financial results.

We operate multiple facilities, and source product from strategic partners who operate facilities, which are close to water or in areas susceptible to earthquakes. An unplanned shutdown at any of our or our strategic partners' facilities for more than a temporary period as a result of a hurricane, typhoon, earthquake or other natural disaster, or as a result of fire, explosions, war, terrorist activities, political conflict or other hostilities, could significantly affect our ability to meet our demand requirements, thereby resulting in lost sales and profitability in the short-term or eventual loss of customers in the long-term. In addition, a prolonged planned shutdown of any of our production facilities due to a change in business conditions could result in impairment charges that could have an adverse impact on our financial results.

An example of an unplanned shutdown of one of our production facilities was the shutdown of our Pearl River facility in Pearlington, Mississippi due to damage caused by Hurricane Katrina in August 2005. The plant did not become operational again until November 2005 and was not operating again at full capacity until January 2006. Certain customer shipments were either delayed or cancelled during the plant outage, the consequences of which adversely affected us during 2006. We estimated our pre-tax business interruption losses during 2005 and 2006 to be approximately \$4.4 million in the aggregate due to the effect of the unplanned shutdown of the Pearl River facility.

We hold a variety of patents that give us a competitive advantage in certain markets. An inability to defend those patents from competitive attack could have an adverse effect on both current results and future growth targets.

From time to time in the course of our business, we have to address competitive challenges to our patented technology. Following protracted litigation in multiple jurisdictions, the U.S. Court of Appeals for the Federal Circuit held that our process patents for the use of ultraviolet light to prevent infection from Cryptosporidium and Giardia in drinking water thereby concluding this case (the "UV patents") are invalid in the United States. On March 3, 2008, the Supreme Court of Canada held that our Canadian UV patents are invalid, thereby concluding this case. We did not appeal the ruling in the United States. A German trial court has found that a competitor infringed our UV patents with respect to medium pressure ultraviolet light, but did not infringe with respect to low pressure ultraviolet light. The Company appealed the decision relating to low pressure ultraviolet light. The competitor did not appeal. Oral argument is scheduled for September 2008. The validity of the German UV patents, as distinguished from issues of infringement which were decided in the trial court, is the subject of administrative proceedings in Germany. The outcome of these cases has impaired the Company's ability to capitalize on substantial future revenues from the licensing of its UV patents.

With the exception of 2007, we have incurred significant legal fees and expenses in recent years litigating these matters. For example, legal expenses related to these patent litigation matters totaled approximately \$4.7 million in 2006 and \$3.9 million in 2005. We may be required to incur additional significant legal expenses to defend our intellectual property in the future.

Furthermore, these legal disputes over our UV patents may adversely affect our business and growth prospects because they may suppress overall demand for UV equipment as municipalities may decide to wait for the completion of the litigation to resolve the resulting uncertainties before making investment decisions.

Our products may infringe the intellectual property rights of others, which may cause us to pay unexpected litigation costs or damages or prevent us from selling our products.

Although it is our intention to avoid infringing or otherwise violating the intellectual property rights of others, our products may infringe or otherwise violate the intellectual property rights of others. We may be subject to legal proceedings and claims, including claims of alleged infringement by us of the patents and other intellectual property rights of third parties. Intellectual property litigation is expensive and time-consuming, regardless of the merits of any claim.

If we were to discover or be notified that our products potentially infringe or otherwise violate the intellectual property rights of others, we may need to obtain licenses from these parties or substantially re-engineer our products in order to avoid infringement. We might not be able to obtain the necessary licenses on acceptable terms, or at all, or be able to re-engineer our products successfully. Moreover, if we are sued for infringement and lose the suit, we could be required to pay substantial damages and/or be enjoined from using or selling the infringing products. Any of the foregoing could cause us to incur significant costs and prevent us from selling our products.

Environmental compliance and remediation could result in substantially increased capital requirements and operating costs.

Our production facilities are subject to environmental laws and regulations in the jurisdictions in which they operate or maintain properties. Costs may be incurred in complying with such laws and regulations. Each of our domestic production facilities require permits and licenses issued by local, state and federal regulators which regulate air emissions and water discharges. These permits are subject to renewal and, in some circumstances, revocation. International environmental requirements vary and could have substantially lesser requirements that may give competitors a competitive advantage. Additional costs may be incurred if environmental remediation measures are required. In addition, the discovery of contamination at any of our current or former sites or at locations at which we disposed of waste may expose us to cleanup obligations and other damages. For example, the Company received a Notice of Violation ("NOV") from the U.S. EPA in January 2007 and from the Kentucky Department of Environmental Protection in July 2007. While the Company is attempting to resolve these matters, an unfavorable result could have a significant adverse impact on financial results. If we receive similar demands in the future, we may incur significant costs in connection with the resolution of those matters.

Our international operations expose us to political and economic uncertainties and risks from abroad, which could negatively affect our results of operations.

We have manufacturing facilities and sales offices in Europe, China, Japan, Taiwan, Singapore, Brazil, Mexico, Canada, and the United Kingdom which are subject to economic conditions and political factors within the respective countries which, if changed in a manner adverse to us, could negatively affect our results of operations and cash flow. Political factors include, but are not limited to, taxation, nationalization, inflation, currency fluctuations, increased regulation and quotas, tariffs and other protectionist measures. Approximately 85% of our sales in 2007 were generated by products sold in the U.S., Canada, and Western Europe while the remaining sales were generated in other areas of the world, such as Asia, Eastern Europe, and Latin America.

We face risks in connection with compliance with Sarbanes-Oxley Section 404 and any other related remedial measures that we may undertake.

During 2006, the Company had identified and subsequently remediated a material weakness in its internal controls. If we are unable to effectively remediate any other material weaknesses or significant deficiencies in internal control over financial reporting that are identified in the future and to assert that disclosure controls and procedures including internal control over financial reporting are effective in any future period, we could lose investor confidence in the accuracy and completeness of our financial reports, which could have an adverse effect on our stock price and potentially subject us to litigation. In addition, we may be required to incur additional costs including but not limited to the hiring of additional personnel to improve our existing internal control system.

We have significant domestic and foreign net operating tax loss and credit carryforwards which, if they are not utilized, would have an adverse effect on our financial results.

As of December 31, 2007, we had \$13.1 million of deferred tax assets associated with net operating loss carryforwards ("NOLs") and tax credit carryforwards that were generated from both our domestic and foreign operations. We have established a valuation reserve of \$6.2 million for these deferred tax assets that are not deemed more likely than not to be realized. If we do not meet our projections of profitability in the future, we may not be able to realize these NOLs or tax credits, and we may be required to record an additional valuation allowance, which would adversely affect our financial results. In addition, if some or all of these NOLs or tax credits expire, they will not be available to offset our tax liability.

Our ability to utilize our NOLs and certain other tax attributes may be limited.

As of December 31, 2007, we had NOLs of approximately \$0.5 million for federal income tax purposes and approximately \$61.4 million for state income tax purposes. Under Section 382 of the Internal Revenue Code, if a corporation undergoes an "ownership change," the corporation's ability to use its pre-change NOLs and other pre-change tax attributes to offset its post-change income may be limited. An ownership change is generally defined as a greater than 50% change in its equity ownership by value over a three-year period. We may experience an ownership change in the future as a result of subsequent shifts in our stock ownership. If we were to trigger an ownership change in the future, our ability to use any NOLs existing at that time could be limited.

We may not have sufficient funds necessary to settle conversion of our convertible notes due in 2036 or to purchase the convertible notes upon a fundamental change or other purchase date, and our future debt may contain limitations on our ability to pay cash upon conversion or repurchase of the notes.

Upon conversion of the convertible notes, we will be required to pay a settlement amount in cash and shares of our common stock, if any, based upon a 25 trading-day observation period. In addition, on August 15, 2011, August 15, 2016 and August 15, 2026, holders of the notes may require us to purchase their notes. Holders may also require us to purchase their notes upon a fundamental change. A fundamental change may also include an event of default, and result in the effective acceleration of the maturity of our then-existing indebtedness under our current credit facility or other indebtedness we may have in the future.

We may not have sufficient financial resources, or may not be able to arrange financing, to pay the settlement amount in cash, or the purchase price or fundamental change purchase price for the notes tendered by the holders in cash. Our ability to pay the settlement amount in cash, or the purchase price or fundamental change purchase price for the notes in cash will be subject to limitations we may have in our credit facilities, or any other indebtedness we may have in the future. If the notes are converted or we are required to purchase them, we may seek the consent of our lenders or attempt to refinance our debt, but there can be no assurance that we will be able to do so. At December 31, 2007, the conversion option was triggered based on the trading price of our common stock. As such, the note holders have the right to convert their notes to cash and common stock. Unless we have made alternative financing arrangements, a portion of the convertible debt will be considered current.

Failure by us to pay the settlement amount upon conversion or purchase the notes when required will result in an event of default with respect to the notes, which may also result in a default under existing and future agreements governing our indebtedness. If the repayment of such indebtedness were to be accelerated after any applicable notice or grace periods, we may not have sufficient funds to repay such indebtedness and the notes.

The fundamental change provisions in our convertible notes may delay or prevent an otherwise beneficial takeover attempt of our company.

The fundamental change provisions in our convertible notes, including the fundamental change purchase right and the provisions requiring an increase in the conversion rate for conversions in connection with certain fundamental changes, may in certain circumstances delay or prevent a takeover of our company and the removal of incumbent management that might otherwise be beneficial to investors.

Our stockholder rights plan and our certificate of incorporation and bylaws and Delaware law contain provisions that may delay or prevent an otherwise beneficial takeover attempt of our company.

Our stockholder rights plan and certain provisions of our certificate of incorporation and bylaws and Delaware law could make it more difficult for a third party to acquire us, even if doing so would be beneficial to our stockholders. These include provisions:

- · providing for a board of directors with staggered, three-year terms;
- · requiring super-majority voting to affect certain amendments to our certificate of incorporation and bylaws;
 - limiting the persons who may call special stockholders' meetings;
 - limiting stockholder action by written consent;
- ·establishing advance notice requirements for nominations for election to the board of directors or for proposing matters that can be acted upon at stockholders' meetings; and
 - allowing our board of directors to issue shares of preferred stock without stockholder approval.

These provisions, along or in combination with each other, may discourage transactions involving actual or potential changes of control, including transactions that otherwise could involve payment of a premium over prevailing market prices to holders of our common stock, or could limit the ability of our stockholders to approve transactions that they may deem to be in their best interests.

Item 1b. Unresolved Staff Comments: None. 29

Item 2. Properties:

The Company owns nine production facilities, two of which are located in Pittsburgh, Pennsylvania; and one each in the following locations: Catlettsburg, Kentucky; Pearlington, Mississippi; Blue Lake, California; Feluy, Belgium; Grays, United Kingdom; Datong, China; and Columbus, Ohio. The Company leases one production facility in each of the following locations: Pittsburgh, Pennsylvania; Houghton Le Spring, United Kingdom; Ashton-in-Makerfield, United Kingdom; and Tianjin, China. The Company's 49% owned joint venture; Calgon Mitsubishi Chemical Corporation has one facility in Fukui, Fukui Prefecture, Japan. The Company also leases twenty warehouses, service centers, and sales office facilities. Of these, eighteen are located in the United States and one each in the United Kingdom and Canada. Six of the United States facilities are located in Pittsburgh, Pennsylvania and one each in the following locations: Downingtown, Pennsylvania; Providence, Rhode Island; Rockdale, Illinois; Santa Fe Springs, California; Houston, Texas; Marlton, New Jersey; Stockton, California; South Point, Ohio; Huntington, West Virginia; Ironton, Ohio; Wurtland, Kentucky; and Sulphur, Louisiana. The facility in the United Kingdom is located in Ashton-in-Makerfield. The Canadian facility is located in Richmond Hill, Ontario.

The Catlettsburg, Kentucky plant is the Company's largest facility, with plant operations occupying approximately 50 acres of a 226-acre site. This plant, which serves the Activated Carbon and Service segment, produces granular and powdered activated carbons and acid washed granular activated carbons and reactivates spent granular activated carbons.

The Pittsburgh, Pennsylvania carbon production plant occupies a four-acre site and serves the Activated Carbon and Service segment. Operations at the plant include the reactivation of spent granular activated carbons, the impregnation of granular activated carbons and the grinding of granular activated carbons into powdered activated carbons. The plant also has the capacity to produce coal-based or coconut-based specialty activated carbons.

The Pearlington, Mississippi plant occupies a site of approximately 100 acres. The plant has one production line that produces granular activated carbons and powdered carbons for the Activated Carbon and Service segment.

The Columbus plant occupies approximately 27 acres in Columbus, Ohio. Operations at the plant include reactivation of spent granular activated carbons, impregnation of activated carbon, crushing activated carbon to fine mesh, acid and water washing, filter-filling, and various other value added processes to granular activated carbon for the Activated Carbon and Service segment.

The Blue Lake plant, located near the city of Eureka, California occupies approximately two acres. The primary operation at the plant includes reactivation of spent granular activated carbons for the Activated Carbon and Service segment. This plant has been temporarily idled since December 2005.

The Pittsburgh, Pennsylvania equipment and assembly plant is located on Neville Island and is situated within a 16-acre site that includes a 300,000 square foot building. The Equipment and Assembly plant occupies 85,000 square feet with the remaining space used as a centralized warehouse for carbon inventory. The plant, which serves the Equipment and Activated Carbon and Service segments, manufactures and assembles fully engineered carbon equipment for purification, concentration and separation systems. This plant also serves as the east coast staging and refurbishment point for carbon service equipment.

The Pittsburgh, Pennsylvania Engineered Solutions plant is a 37,500 sq. ft. production facility located on Neville Island. The primary focus of this facility is the manufacture of UV and Ion Exchange (ISEP®) equipment, including mechanical and electrical assembly, controls systems integration and validation testing of equipment. This location also serves as the Pilot Testing facility for Process Development, as well as the spare parts distribution center for UV and ISEP® systems.

The Feluy plant occupies a site of approximately 21 acres located 30 miles south of Brussels, Belgium. Operations at the plant include both the reactivation of spent granular activated carbons and the grinding of granular activated carbons into powdered activated carbons for the Activated Carbon and Service segment.

The Grays plant occupies a three-acre site near London, United Kingdom. Operations at the plant include the reactivation of spent granular activated carbons for the Activated Carbon and Service segment.

The Ashton-in-Makerfield plant occupies a 1.6 acre site, 20 miles west of Manchester, United Kingdom. Operations at the plant include the impregnation of granular activated carbons for the Activated Carbon and Service segment. The plant also has the capacity to finish coal-based or coconut-based activated carbons.

The Houghton Le Spring plant, located near the city of Newcastle, United Kingdom, occupies approximately two acres. Operations at the plant include the manufacture of woven and knitted activated carbon textiles and their impregnation and lamination for the Consumer segment.

The Fukui, Fukui Prefecture, Japan plant is 49% owned by Calgon Carbon as part of a joint venture with Mitsubishi Chemical Company. The joint venture is Calgon Mitsubishi Chemical Corporation. The plant, which serves the Activated Carbon and Service segment, occupies a site of approximately six acres and has one production line for carbon reactivation.

The Datong plant located in Datong, China occupies 15,000 square meters. This plant produces agglomerated activated carbon intermediate product for the Activated Carbon and Service segment for use in both the potable and industrial markets.

The Tianjin plant is located in Tianjin, China and is licensed to export activated carbon products. It occupies approximately 35,000 square meters. This plant finishes, sizes, tests, and packages activated carbon products for the Activated Carbon and Service segment for distribution both inside China and for export.

The Company believes that the plants and leased facilities are adequate and suitable for its operating needs.

Item 3. Legal Proceedings:

The Company purchased the common stock of Advanced Separation Technologies Incorporated (AST) from Progress Capital Holdings, Inc. and Potomac Capital Investment Corporation on December 31, 1996. On January 12, 1998, the Company filed a claim for unspecified damages in the United States District Court for the Western District of Pennsylvania alleging among other things that Progress Capital Holdings and Potomac Capital Investment Corporation materially breached various AST financial and operational representations and warranties included in the Stock Purchase Agreement and had defrauded the Company. A jury returned a verdict in favor of the Company and against the defendants in the amount of \$10.0 million on January 26, 2007 which has not been recorded in operations as of December 31, 2007. After the Court denied all post-trial motions, including the defendants' motion for a new trial and the Company's motion for the award of prejudgment interest, all parties appealed to the United States Circuit Court of Appeals for the Third Circuit. The parties settled the case in January 2008 when the defendants agreed to pay the Company \$9.25 million. This sum was received in February 2008.

Following protracted litigation in multiple jurisdictions, the U.S. Court of Appeals for the Federal Circuit held that the Company's process patents for the use of ultraviolet light to prevent infection from Cryptosporidium and Giardia in drinking water (the "UV patents") are invalid in the United States. On March 3, 2008, the Supreme Court of Canada held that the Company's Canadian UV patents are invalid, thereby concluding this case. The Company did not appeal the ruling in the United States and the Canadian ruling concluded the litigation. In March 2007, the Company and Trojan entered into a settlement whereby in exchange for a nominal cash payment and relief from legal fees, the Company granted Trojan worldwide immunity from all current and future legal action related to the Company's UV patents. In 2007, a German trial court found that a competitor infringed the Company's UV patents with respect to medium pressure ultraviolet light, but did not infringe with respect to low pressure ultraviolet light. The Company appealed the decision relating to low pressure light. The competitor did not appeal. Oral argument is scheduled in this case for September 2008. The validity of the German UV patents, as distinguished from issues of infringement which were decided in the trial court, is the subject of pending administrative proceedings in Germany. The outcome of these cases has impaired the Company's ability to capitalize on substantial future revenues from the licensing of its UV patents.

In addition to the matters described above, the Company is involved in various other legal proceedings, lawsuits and claims, including employment, product warranty and environmental matters of a nature considered normal to its business. It is the Company's policy to accrue for amounts related to these legal matters when it is probable that a liability has been incurred and the loss amount is reasonably estimable. Management believes that the ultimate liabilities, if any, resulting from such lawsuits and claims will not materially affect the consolidated financial position or liquidity of the Company, but an adverse outcome could be material to the results of operations in a particular period in which a liability is recognized.

Item 4. Submission of Matters to a Vote of Security Holders:

No matters were submitted to a vote of security holders during the fourth quarter of 2007.

PART II

Item 5. Market for Registrant's Common Equity, Related Shareholder Matters, and Issuer Repurchases of Equity Securities:

COMMON SHARES AND MARKET INFORMATION

Common shares are traded on the New York Stock Exchange under the trading symbol CCC. There were 1,345 registered shareholders at December 31, 2007.

Quarterly Common Stock Price Ranges and Dividends

	2007			2006		
Fiscal Quarter	High	Low	Dividend	High	Low	Dividend
First	9.52					