MINE SAFETY APPLIANCES CO

Form 10-K

February 24, 2014

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UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

ANNUAL REPORT PURSUANT TO

For the fiscal year ended SECTION 13 OR 15(d) OF THE

SECURITIES EXCHANGE ACT OF 1934 December 31, 2013

Commission File No. 1-15579

MINE SAFETY APPLIANCES COMPANY

(Exact name of registrant as specified in its charter)

Pennsylvania

25-0668780 (State or other jurisdiction of

(IRS Employer Identification incorporation or organization)

No.)

Registrant's telephone number, including area

code: (724) 776-8600

1000 Cranberry Woods Drive Cranberry Township, Pennsylvania

(Address of principal executive

offices)

16066-5207 (Zip code)

Securities registered pursuant to Section 12(b) (Name of each exchange on (Title of each class)

which registered) of the Act:

Common Stock, no par value New York Stock Exchange

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

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes " 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 and (2) has been subject to such filing requirements for the past 90 days. Yes x No "

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Website, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§ 232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes x No "

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§ 229.405 of this chapter) is not contained herein, and will not be contained, to the best of registrant's knowledge, in the definitive proxy statement incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. x Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer x Accelerated filer "

Non-accelerated filer " Smaller reporting company "

(Do not check if a smaller reporting company)

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the

Act). Yes " No ý

As of February 17, 2014, there were outstanding 37,212,881 shares of common stock, no par value, not including 282,120 shares held by the Mine Safety Appliances Company Stock Compensation Trust. The aggregate market value of voting stock held by non-affiliates as of June 30, 2013 was approximately \$1.4 billion.

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the Proxy Statement for the May 6, 2014 Annual Meeting of Shareholders are incorporated by reference into Part III.

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Forward-Looking Statements

This report may contain (and verbal statements made by Mine Safety Appliances Company (MSA) may contain) forward-looking statements within the meaning of the Private Securities Litigation Reform Act of 1995. These statements relate to future events or our future financial performance and involve known and unknown risks, uncertainties and other factors that may cause our actual results, levels of activity, performance or achievements to be materially different from any future results, levels of activity, performance or achievements expressed or implied by these forward-looking statements. These risks and other factors include, but are not limited to, those listed in this report under "Risk Factors," "Management's Discussion and Analysis of Financial Condition and Results of Operations," and elsewhere in this report. In some cases, you can identify forward-looking statements by words such as "may," "will," "should," "expects," "intends," "plans," "anticipates," "believes," "estimates," "predicts," "potential" or other comparable wor results, performance or outcomes may differ materially from those expressed or implied by these forward-looking statements. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee future results, levels of activity, performance or achievements. We are under no duty to update publicly any of the forward-looking statements after the date of this report, whether as a result of new information, future events or otherwise.

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PART I

Item 1. Business

Overview—Mine Safety Appliances Company was founded in Pennsylvania in 1914. We are a global leader in the development, manufacture and supply of products that protect people's health and safety. Our safety products typically integrate a combination of electronics, mechanical systems and advanced materials to protect users against hazardous or life threatening situations. Our comprehensive line of safety products is used by workers in many industries as well as the military around the world. Notably, we primarily serve the oil and gas, fire service, mining, and construction industries. Our broad product offering includes self-contained breathing apparatus, or SCBA, gas masks, gas detection instruments, head protection, respirators, thermal imaging cameras and fall protection. We also provide a broad offering of consumer and contractor safety products through retail channels.

We dedicate significant resources to research and development, which allows us to produce innovative safety products that are often first to market and exceed industry standards. Our global product development teams include cross-geographic and cross-functional members from various areas throughout the company, including research and development, marketing, sales, operations and quality management. Our engineers and technical associates work closely with the safety industry's leading standards-setting groups and trade associations, such as the National Institute for Occupational Safety and Health, or NIOSH, and the National Fire Protection Association, or NFPA, and their overseas counterparts, to develop industry product requirements and standards and to anticipate their impact on our product lines.

Segments—We tailor our product offerings and distribution strategy to satisfy distinct customer preferences that vary across geographic regions. To best serve these customer preferences, we have organized our business into eleven geographic operating segments that are aggregated into three reportable geographic segments: North America, Europe and International. Segment information is presented in the note entitled "Segment Information" in Item 8—Financial Statements and Supplementary Data.

Because our financial statements are stated in U.S. dollars and much of our business is conducted outside the U.S., currency fluctuations may affect our results of operations and financial position and may affect the comparability of our results between financial periods.

Principal Products—We manufacture and sell a comprehensive line of safety products to protect workers around the world in the oil and gas, fire service, mining, construction and other industries, as well as the military. We also provide a broad offering of consumer and contractor safety products through retail channels. Our products protect people against a wide variety of hazardous or life-threatening situations.

The following is a brief description of each of our principal product categories:

Core Products. MSA's strategy includes a focus on driving profitable core product sales. Core products include breathing apparatus, industrial head protection, fixed gas and flame detection, portable gas detection and fall protection products. These products receive the highest levels of investment and resources in alignment with our commitment to grow core products sales in both emerging and developed markets.

Adjacent products. MSA provides a series of adjacent product offerings to its customers that complement its core products. These products reinforce and extend the core, drawing upon our customer relationships, distribution channels, geographical presence and technical experience. These products tend to have their roots within the core product value chain, but receive a smaller allocation of corporate resources than core products. Adjacent product sales comprise approximately one fourth of consolidated sales.

Peripheral products. MSA provides a series of peripheral product offerings to its customers. MSA's competitive advantage in serving peripheral product customers tends to be related to our channels of distribution or customer access. These products are primarily sold to the mining industry and represent a small portion of consolidated sales. The following is a brief description of our significant product offerings included in the above product categories: Respiratory protection. We offer a broad and comprehensive line of respiratory protection products. These products are used to protect against the harmful effects of contamination caused by dust, gases, fumes, volatile chemicals, sprays, micro-organisms, fibers and other contaminants. These products include:

Self Contained Breathing Apparatus. SCBA are used by first responders, petrochemical plant workers and anyone entering an environment deemed immediately dangerous to life and health. SCBA are also used by first responders to

protect against exposure to chemical, biological, radiological and nuclear agents, which are collectively referred to as CBRN.

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Air-purifying respirators. Air-purifying respirators range from the simple filtering types to powered full-facepiece versions for many hazardous applications, including:

full-face gas masks for industrial workers and first responders exposed to known concentrations of hazardous gases, chemicals, vapors and particulates, or for escape from unknown concentrations of these hazards;

half-mask respirators for industrial workers, painters and construction workers exposed to known concentrations of gases, vapors and particulates;

powered-air purifying respirators for industrial, hazmat and remediation workers who have longer term exposures to hazards in their work environment; and

dust and pollen masks for maintenance workers, contractors and at-home consumers exposed to nuisance dusts, allergens and other particulates.

Escape respirators. Escape respirators are used by law enforcement personnel, government workers, chemical and pharmaceutical workers and anyone needing to escape from unknown concentrations of a chemical, biological or radiological release of toxic gases and vapors. Escape respirators give users respiratory protection to help them escape from threatening situations quickly and easily.

Portable and fixed gas detection instruments. Our portable and fixed gas detection instruments are used to detect the presence or absence of various gases in the air. These instruments can be either hand-held or permanently installed. Typical applications of these instruments include the detection of an oxygen deficiency in confined spaces or the presence of combustible or toxic gases. Products include:

Single- and multi-gas hand-held detectors. Our single- and multi-gas detectors provide portable solutions for detecting the presence of oxygen, combustible gases and various toxic gases, including hydrogen sulfide, carbon monoxide, ammonia and chlorine, either singularly or up to six gases at once. Our hand-held portable instruments are used by chemical workers, oil and gas workers and utility workers entering confined spaces, or anywhere a user needs to continuously monitor the quality of the atmosphere they are working in and around. Our ALTAIR® 4X and ALTAIR® 5X Multigas Detectors with XCell® sensor technology provide faster response times and unsurpassed durability in a tough, easy-to-operate package.

Multi-point permanently installed gas detection systems. Our comprehensive line of fixed gas detection systems, was greatly expanded with the acquisition of General Monitors in 2010. This line is used to monitor for combustible and toxic gases and oxygen deficiency in virtually any application where continuous monitoring is required. Our systems are used for gas detection in petrochemical, pulp and paper, wastewater, refrigerant monitoring, and general industrial applications. These systems utilize a wide array of sensing technologies including electrochemical, catalytic, infrared and ultrasonic.

Flame detectors and open-path infrared gas detectors. MSA's line of fixed flame and combustible gas detection was greatly expanded with the acquisition of General Monitors in 2010. These instruments are used for plant-wide monitoring of toxic gases for detecting the presence of flames. These systems use infrared optics to detect potentially hazardous conditions across long distances, making them suitable for use in such applications as offshore oil rigs, storage vessels, refineries, pipelines and ventilation ducts. First used in the oil and gas industry, our systems currently have broad applications in petrochemical facilities, the transportation industry and in pharmaceutical production. Thermal imaging cameras. Our hand-held infrared thermal imaging cameras, or TICs, are used in the global fire service market. TICs detect sources of heat in order to locate downed firefighters and other people trapped inside burning or smoke-filled structures. TICs can also be used to detect the central source of the fire in order to direct hose streams in a structural fire attack, as well as to locate remaining embers during post-fire overhaul operations. Our Evolution® 6000 series TICs are unmatched for ease of use and durability and meet the stringent requirements of the National Fire Protection Association performance standard.

Head, eye, face and hearing protection. Head, eye, face and hearing protection is used in work environments where hazards present dangers such as dust, flying particles, metal fragments, chemicals, extreme glare, optical radiation and items dropped from above.

Industrial hard hats. We have a complete line of industrial head protection that includes the flagship V-Gard® helmet brand. We offer customers a wide range of color choices and we are a world leader in the application of customized logos. Our industrial head protection has a wide user base including oil, gas and petrochemical workers, steel and

construction workers, miners and industrial workers.

Fire helmets. Our fire service products include leather, traditional, modern, jet-style and specialty helmets designed to satisfy the preferences of firefighters across geographic regions. We believe that our Cairns Helmet is the number one helmet in the North American fire service market. Similarly, we believe that our Gallet firefighting helmet has the number one market position in Europe.

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Ballistic helmets. These helmets provide ballistic head protection in combat and other high-risk environments and are sold in international markets outside of North America.

Eye, face and hearing protection. Our broad line of hearing protection products, non-prescription protective eyewear and face shields is used by workers in a wide variety of industries.

Fall protection. Our broad line of fall protection equipment includes confined space equipment, harnesses, fall arrest equipment, lanyards and lifelines. Fall protection equipment is used by construction, oil and gas, utilities and plant workers and anyone working at height.

Customers—Our customers generally fall into three categories: industrial and military end-users, distributors and retail consumers. In North America, nearly all of our sales are made through our distributors. In our European and International segments, sales are made through both indirect and direct sales channels. For the year ended December 31, 2013, no individual customer represented 10% of our sales.

Industrial and military end-users—Examples of the primary industrial and military end-users of our core products are listed below:

Products
Primary End-Users (in order of magnitude)
First Responders; General Industry Workers; Oil, Gas, and
Supplied Air Respirators
Petrochemical Workers; Military & Police Personnel; and
Miners

Portable Gas Detection

Oil, Gas and Petrochemical Workers; General Industry

Workers; Miners; and First Responders

Fixed Gas & Flame Detection

Oil, Gas and Petrochemical Workers; General Industry

Workers; and Miners

Industrial Head Protection

General Industry Workers; Oil, Gas, and Petrochemical
Workers; Construction Workers and Contractors; and Miners

Fall Protection

General Industry Workers; Construction Workers and
Contractors; Miners; and Oil, Gas, and Petrochemical Workers

Sales and Distribution—Our sales and distribution team consists of distinct marketing, field sales and customer service organizations. We believe our sales and distribution team, totaling over 800 dedicated associates, is the largest in our industry. In most geographic areas, our field sales organizations work jointly with select distributors to call on end-users and educate them about hazards, exposure limits, safety requirements and product applications, as well as the specific performance attributes of our products. In our International segment and Eastern Europe where distributors are not as well established, our sales associates often work with and sell directly to end-users. We believe that understanding end-user requirements is critical to increasing MSA's market share.

The in-depth customer training and education provided by our sales associates to our customers are critical to ensuring proper use of many of our products, such as SCBA and gas detection instruments. As a result of our sales associates working closely with end-users, they gain valuable insight into customer preferences and needs. To better serve our customers and to ensure that our sales associates are among the most knowledgeable and professional in the industry, we place significant emphasis on training our sales associates in product application, industry standards and regulations.

We believe our sales and distribution strategy allows us to deliver a customer value proposition that differentiates our products and services from those of our competitors, resulting in increased customer loyalty and demand. In areas where we use indirect selling, we promote, distribute and service our products to general industry through authorized national, regional and local distributors. Some of our key distributors include Airgas, W.W. Grainger Inc., Fastenal and Hagemeyer. In North America, we distribute fire service products primarily through specially trained local and regional distributors who provide advanced training and service capabilities to volunteer and paid municipal fire departments. In our European and International segments, we primarily sell to and service the fire service market

directly. Because of our broad and diverse product line and our desire to reach as many markets and market segments as possible, we have over 4,000 authorized distributor locations worldwide.

Our Safety Works, LLC joint venture provides a broad range of safety products and gloves to the North American do-it-yourself and independent contractor market through various channels. These include distributors such as Orgill, hardware and equipment rental outlets such as United Rentals, and retail chains such as The Home Depot, TrueValue and Do-it Best.

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Competition—We believe the worldwide personal protection equipment market, including the sophisticated safety products market in which we compete, generates annual sales in excess of \$20 billion. The industry supplying this market is broad and highly fragmented with few participants offering a comprehensive line of safety products. Over the long-term, we believe global demand for safety products will continue to grow. Purchases of these products are non-discretionary, protecting workers' health in hazardous and life-threatening work environments. Their use is often mandated by government and industry regulations, which are increasing on a global basis. Moreover, safety products industry revenues reflect the need to consistently replace many safety products that have limited life spans due to normal wear and tear or because they are one time use products by design.

The safety products market is highly competitive, with participants ranging in size from small companies focusing on a single type of personal protection equipment to a few large multinational corporations that manufacture and supply many types of sophisticated safety products. Our main competitors vary by region and product. We believe that participants in this industry compete primarily on the basis of product characteristics (such as functional performance, agency approvals, design and style), price, brand name recognition and support.

We believe we compete favorably within each of our operating segments as a result of our high quality and cost-efficient product offerings and strong brand trust and recognition.

Research and Development—To maintain our position at the forefront of safety equipment technology, we operate several sophisticated research and development facilities. We believe our dedication and commitment to innovation and research and development allows us to produce innovative safety products that are often first to market and exceed industry standards. In 2013, 2012 and 2011, on a global basis, we spent \$45.9 million, \$40.9 million and \$39.2 million, respectively, on research and development. Our primary engineering groups are located in the United States, Germany, China and France. Our global product development teams include cross-geographic and cross-functional members from various areas throughout the company, including research and development, marketing, sales, operations and quality management. These teams are responsible for setting product line strategy based on their understanding of customers' needs and available technology, as well as the opportunities and challenges they foresee in each product area. We believe our team-based, cross-geographic and cross-functional approach to new product development is a source of competitive advantage. Our approach to the new product development process allows us to tailor our product offerings and product line strategies to satisfy distinct customer preferences and industry regulations that vary across our operating segments.

We believe another important aspect of our approach to new product development is that our engineers and technical associates work closely with the safety industry's leading standards-setting groups and trade associations. These organizations include the National Institute for Occupational Safety and Health, or NIOSH, and the National Fire Protection Association, or NFPA, and their overseas counterparts. We work with these organizations to develop industry product requirements and standards and anticipate their impact on our product lines. Key members of our management team understand the impact that these standard-setting organizations have on our new product development pipeline. As such, management devotes significant time and attention to anticipating a new standard's impact on our sales and operating results. Because of our understanding of customer needs, membership on global standard-setting bodies, investment in research and development and our unique new product development process, we believe we are well-positioned to anticipate and adapt to the needs of changing product standards. We also believe that we are well positioned to gain the approvals and certifications necessary to meet new government and multinational product regulations.

Patents and Intellectual Property—We own significant intellectual property, including a number of domestic and foreign patents, patent applications and trademarks related to our products, processes and business. Although our intellectual property plays an important role in maintaining our competitive position in a number of markets that we serve, no single patent, or patent application, trademark or license is, in our opinion, of such value to us that our business would be materially affected by the expiration or termination thereof, other than the "MSA" trademark. Our patents expire at various times in the future not exceeding 20 years. Our general policy is to apply for patents on an ongoing basis in the United States and other countries, as appropriate, to perfect our patent development. In addition to our patents, we have also developed or acquired a substantial body of manufacturing know-how that we believe provides a significant competitive advantage over our competitors'.

Raw Materials and Suppliers—Many of the components of our products are formulated, machined, tooled or molded in-house from raw materials. For example, we rely on integrated manufacturing capabilities for breathing apparatus, gas masks, ballistic helmets, hard hats and circuit boards. The primary raw materials that we source from third parties include rubber, chemical filter media, eye and face protective lenses, air cylinders, certain metals, electronic components and ballistic resistant and non-ballistic fabrics. We purchase these materials both domestically and internationally, and we believe our supply sources are both well established and reliable. We have close vendor relationship programs with the majority of our key raw material suppliers. Although we generally do not have long-term supply contracts, thus far we have not experienced any significant problems in obtaining adequate raw materials.

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Associates—At December 31, 2013, we had approximately 5,000 associates, approximately 2,900 of whom were employed by our European and International segments. None of our U.S. associates are subject to the provisions of a collective bargaining agreement. Some of our associates outside the United States are members of unions. We have not experienced a significant work stoppage in over 10 years and believe our relations with our associates are strong. Available Information—Our internet address is www.MSAsafety.com. We post the following filings on the Investor Relations page on our website as soon as reasonably practicable after they have been electronically filed with or furnished to the Securities and Exchange Commission: our annual reports on Form 10-K, our quarterly reports on Form 10-Q, our current reports on Form 8-K and any amendments to those reports filed or furnished pursuant to Section 13(a) or 15(d) of the Securities Exchange Act of 1934, as well as our proxy statement. Information contained on our website is not part of this annual report on Form 10-K or our other filings with the Securities and Exchange Commission. The SEC maintains an Internet site at www.sec.gov that contains reports, proxy and information statements and other information regarding issuers like us who file electronically with the SEC.

Item 1A. Risk Factors

Unfavorable economic and market conditions could materially and adversely affect our business, results of operations and financial condition.

We are subject to risks arising from adverse changes in global economic conditions. Although economic conditions generally improved in 2013, the global economy remains unstable and we expect economic conditions will continue to be challenging for the foreseeable future. Adverse changes in economic conditions could result in declines in revenue, profitability and cash flow due to reduced orders, payment delays, supply chain disruptions or other factors caused by the economic challenges faced by our customers and suppliers.

Over the past several years our sales have been positively impacted by the General Monitors acquisition and our organic growth within MSA's line of core products. The increase in sales, primarily to the oil, gas and petrochemical market, exposes MSA to the risks of doing business in that global market. It is possible that the volatility in this market, driven partly by geopolitical factors, could negatively impact our business and our results of operations and financial condition.

A reduction in the spending patterns of government agencies or delays in obtaining government approval for our products could materially and adversely affect our net sales, earnings and cash flow.

The demand for our products sold to the fire service market, the homeland security market and other government agencies is, in large part, driven by available government funding. Government budgets are set annually and we cannot assure you that government funding will be sustained at the same level in the future. A significant reduction in available government funding could materially and adversely affect our net sales, earnings and cash flow.

Our ability to market and sell our products is subject to existing government regulations and standards. Changes in such regulations and standards or our failure to comply with them could materially and adversely affect our results of operations.

Most of our products are required to meet performance and test standards designed to protect the health and safety of people around the world. Our inability to comply with these standards may materially and adversely affect our results of operations. Changes in regulations could reduce the demand for our products or require us to re-engineer our products, thereby creating opportunities for our competitors. Regulatory approvals for our products may be delayed or denied for a variety of reasons that are outside of our control. Additionally, market anticipation of significant new standards can cause customers to accelerate or delay buying decisions.

Our SCBA in North America must be approved by the National Institute for Occupational Safety and Health, or NIOSH. NIOSH has informed respirator manufacturers that CBRN Respirator Approval Testing, which was conducted from July 2012 to October 2013, is invalid due to the concentrations of agents used in testing being lower than the level required by NIOSH test procedures. NIOSH has informed MSA that the Company does not have any respiratory protective equipment in use which requires retesting. CBRN testing will restart in January 2014 and priority will be given to retest previously tested units. This retesting will further delay product approvals and will likely delay the launch of MSA's M7XT until second quarter 2014. In addition, the backlog of re-testing which resulted from this issue may negatively impact the approval timing of MSA's entirely new global platform SCBA product, the G1. This new product was to be submitted for CBRN testing in the first quarter of 2014. The issues noted

above will now delay the launch of this new product until at least the second quarter of 2014. It is possible that the delays associated with this product launch could negatively impact our business and our results of operations and financial condition.

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We are subject to various federal, state and local laws and any violation of these laws could adversely affect our results of operations.

We are subject to extensive regulation from federal, state, local and international governments. Failure to comply with these regulations could result in severe civil or criminal penalties, sanctions or significant changes to our operations. These actions could have a materially adverse effect on our business, results of operations and financial condition. We are subject to various environmental laws and any violation of these laws could adversely affect our results of operations.

Included in the extensive federal, state and local laws, regulations and ordinances, to which we are subject, are those relating to the protection of the environment. Examples include those governing discharges to air and water, handling and disposal practices for solid and hazardous wastes and the maintenance of a safe workplace. These laws impose penalties for noncompliance and liability for response costs and certain damages resulting from past and current spills, disposals, or other releases of hazardous materials. We could incur substantial costs as a result of noncompliance with or liability for cleanup pursuant to these environmental laws. Environmental laws have changed rapidly in recent years, and we may be subject to more stringent environmental laws in the future. If more stringent environmental laws are enacted, these future laws could have a materially adverse effect on our results of operations.

The markets in which we compete are highly competitive, and some of our competitors have greater financial and other resources than we do. The competitive pressures faced by us could materially and adversely affect our business, results of operations and financial condition.

The safety products market is highly competitive, with participants ranging in size from small companies focusing on single types of safety products, to large multinational corporations that manufacture and supply many types of safety products. Our main competitors vary by region and product. We believe that participants in this industry compete primarily on the basis of product characteristics (such as functional performance, agency approvals, design and style), price, name trust and recognition and customer service. Some of our competitors have greater financial and other resources than we do and our business could be adversely affected by competitors' new product innovations, technological advances made to competing products and pricing changes made by us in response to competition from existing or new competitors. We may not be able to compete successfully against current and future competitors and the competitive pressures faced by us could materially and adversely affect our business, results of operations and financial condition.

If we fail to introduce successful new products or extend our existing product lines, we may lose our market position and our financial performance may be materially and adversely affected.

In the safety products market, there are frequent introductions of new products and product line extensions. If we are unable to identify emerging consumer and technological trends, maintain and improve the competitiveness of our products and introduce new products, we may lose our market position, which could have a materially adverse effect on our business, financial condition and results of operations. We continue to invest significant resources in research and development and market research. However, continued product development and marketing efforts are subject to the risks inherent in the development process. These risks include delays, the failure of new products and product line extensions to achieve anticipated levels of market acceptance and the risk of failed product introductions.

Product liability claims and our inability to collect related insurance receivables could have a materially adverse effect on our business, operating results and financial condition.

We face an inherent business risk of exposure to product liability claims arising from the alleged failure of our products to prevent the types of personal injury or death against which they are designed to protect. Although we have not experienced any material uninsured losses due to product liability claims, it is possible that we could experience material losses in the future. In the event any of our products prove to be defective, we could be required to recall or redesign such products. In addition, we may voluntarily recall or redesign certain products that could potentially be harmful to end users. A successful claim brought against us in excess of available insurance coverage, or any claim or product recall that results in significant expense or adverse publicity against us, could have a materially adverse effect on our business, operating results and financial condition.

In the normal course of business, we make payments to settle product liability claims and for related legal fees and we record receivables for the amounts covered by insurance. Our insurance receivables totaled \$124.8 million at

December 31, 2013. Various factors could affect the timing and amount of recovery of insurance receivables, including: the outcome of negotiations with insurers, legal proceedings with respect to product liability insurance coverage and the extent to which insurers may become insolvent in the future. Amounts due from insurance carriers are subject to insolvency risk. Failure to recover amounts due from our insurance carriers could have a materially adverse effect on our business, operating results and financial condition.

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Damage to the reputation of MSA or to one or more of our product brands could adversely affect our business. Developing and maintaining our reputation, as well as the reputation of our brands, is a critical factor in our relationship with customers, distributors and others. Our inability to address adverse publicity or other issues, including concerns about product safety or quality, real or perceived, could negatively impact our business which could have a materially adverse effect on our business, operating results and financial condition.

A failure of our information systems could materially and adversely affect our business, results of operations and financial condition.

The proper functioning and security of our information systems is critical to the operation of our business. Our information systems may be vulnerable to damage or disruption from natural or man-made disasters, computer viruses, power losses or other system or network failures. In addition, hackers and cybercriminals could attempt to gain unauthorized access to our information systems with the intent of harming our company or obtaining sensitive information such as intellectual property, trade secrets, financial and business development information, and customer and vendor related information. If our information systems or security fail, our business, results of operations and financial condition could be materially and adversely affected.

Like many companies, from time to time, we have experienced attacks on our computer systems by unauthorized outside parties; however, we do not believe that such attacks have resulted in any material damage to us or our customers. Because the techniques used by computer hackers and others to access or sabotage networks constantly evolve and generally are not recognized until launched against a target, we may be unable to anticipate, prevent or detect these attacks. As a result, our technologies and processes may be misappropriated and the impact of any future incident cannot be predicted. Any loss of such information could harm our competitive position, or cause us to incur significant costs to remedy the damages caused by the incident. We routinely implement improvements to our network security safeguards and we expect to devote increasing resources to the security of our information technology systems. We cannot assure that such system improvements will be sufficient to prevent or limit the damage from any future cyber-attack or network disruptions.

The Company's plans to continue to improve productivity and reduce complexity and costs associated with its European Segment may not be successful, which could adversely affect its ability to compete.

The Company is currently engaged in an extensive European Transformation Project. Under the organization of a Principal Operating Company, this program will integrate our historically individually managed entities, into one that is a centrally managed organization. We plan to leverage the benefits of scale created from this approach and are in the process of implementing a more efficient and cost-effective enterprise resource planning system. The Company runs the risk that these and similar initiatives may not be completed substantially as planned, may be more costly to implement than expected, or may not have the positive effects anticipated. In addition, these various initiatives require the Company to implement a significant amount of organizational change which could divert management's attention from other concerns, and if not properly managed, could cause disruptions in the Company's day-to-day operations and have a negative impact on the Company's financial results. It is also possible that other major productivity and streamlining programs may be required in the future.

We have significant international operations and are subject to the risks of doing business in foreign countries. We have business operations in over 40 foreign countries. In 2013, approximately half of our net sales were made by operations located outside the United States. Our international operations are subject to various political, economic and other risks and uncertainties, which could adversely affect our business. These risks include the following: unexpected changes in regulatory requirements;

- changes in trade policy or tariff regulations;
- changes in tax laws and regulations;
- changes to the company's legal structure could have unintended tax consequences;
- intellectual property protection difficulties;
- difficulty in collecting accounts receivable;
- complications in complying with a variety of foreign laws and regulations, some of which may conflict with U.S. laws;
- trade protection measures and price controls;

•rade sanctions and embargoes;

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nationalization and expropriation;

increased international instability or potential instability of foreign governments;

effectiveness of worldwide compliance with MSA's anti-bribery policy, local laws and the Foreign Corrupt Practices Act

the need to take extra security precautions for our international operations; and

costs and difficulties in managing culturally and geographically diverse international operations.

Any one or more of these risks could have a negative impact on the success of our international operations and, thereby, materially and adversely affect our business as a whole.

Our future results are subject to availability of, and fluctuations in the costs of, purchased components and materials due to market demand, currency exchange risks, material shortages and other factors.

We depend on various components and materials to manufacture our products. Although we have not experienced any difficulty in obtaining components and materials, it is possible that any of our supplier relationships could be terminated. Any sustained interruption in our receipt of adequate supplies could have a materially adverse effect on our business, results of operations and financial condition. We cannot assure you that we will be able to successfully manage price fluctuations due to market demand, currency risks or material shortages, or that future price fluctuations will not have a materially adverse effect on our business, results of operations and financial condition.

Because we derive a significant portion of our sales from the operations of our foreign subsidiaries, future currency exchange rate fluctuations may adversely affect our results of operations and financial condition, and may affect the comparability of our results between financial periods.

For the year ended December 31, 2013, the operations in our European and International segments accounted for approximately half of our net sales. The results of our foreign operations are reported in the local currency and 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 have fluctuated significantly in recent years, and may continue to do so in the future. In addition, because our financial statements are stated in U.S. dollars, such fluctuations may affect our results of operations and financial position, and may affect the comparability of our results between financial periods. We cannot assure you that we will be able to effectively manage our exchange rate risks or that any volatility in currency exchange rates will not have a materially adverse effect on our results of operations and financial condition.

If we lose any of our key personnel or are unable to attract, train and retain qualified personnel, our ability to manage our business and continue our growth would be negatively impacted.

Our success depends in large part on the continued contributions of our key management, engineering and sales and marketing personnel, many of whom are highly skilled and would be difficult to replace. Our success also depends on the abilities of new personnel to function effectively, both individually and as a group. If we are unable to attract, effectively integrate and retain management, engineering or sales and marketing personnel, then the execution of our growth strategy and our ability to react to changing market requirements may be impeded, and our business could suffer as a result. Competition for personnel is intense, and we cannot assure you that we will be successful in attracting and retaining qualified personnel. In addition, we do not currently maintain key person life insurance. Our inability to successfully identify, consummate and integrate future acquisitions or to realize anticipated cost savings and other benefits could adversely affect our business.

One of our operating strategies is to selectively pursue acquisitions. Any future acquisitions will depend on our ability to identify suitable acquisition candidates and successfully consummate such acquisitions. Acquisitions involve a number of risks including:

failure of the acquired businesses to achieve the results we expect;

diversion of our management's attention from operational matters;

our inability to retain key personnel of the acquired businesses;

risks associated with unanticipated events or liabilities;

potential disruption of our existing business; and

customer dissatisfaction or performance problems at the acquired businesses.

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If we are unable to integrate or successfully manage businesses that we have recently acquired or may acquire in the future, we may not realize anticipated cost savings, improved manufacturing efficiencies and increased revenue, which may result in materially adverse short- and long-term effects on our operating results, financial condition and liquidity. Even if we are able to integrate the operations of our acquired businesses into our operations, we may not realize the full benefits of the cost savings, revenue enhancements or other benefits that we may have expected at the time of acquisition. In addition, even if we achieve the expected benefits, we may not be able to achieve them within the anticipated time frame, and such benefits may be offset by costs incurred in integrating the acquired companies and increases in other expenses.

Our continued success depends on our ability to protect our intellectual property. If we are unable to protect our intellectual property, our business could be materially and adversely affected.

Our success depends, in part, on our ability to obtain and enforce patents, maintain trade secret protection and operate without infringing on the proprietary rights of third parties. We have been issued patents and have registered trademarks with respect to many of our products, but our competitors could independently develop similar or superior products or technologies, duplicate any of our designs, trademarks, processes or other intellectual property or design around any processes or designs on which we have or may obtain patents or trademark protection. In addition, it is possible that third parties may have, or will acquire, licenses for patents or trademarks that we may use or desire to use, so that we may need to acquire licenses to, or to contest the validity of, such patents or trademarks of third parties. Such licenses may not be made available to us on acceptable terms, if at all, and we may not prevail in contesting the validity of third party rights.

We also protect trade secrets, know-how and other confidential information against unauthorized use by others or disclosure by persons who have access to them, such as our employees, through contractual arrangements. These agreements may not provide meaningful protection for our trade secrets, know-how or other proprietary information in the event of any unauthorized use, misappropriation or disclosure of such trade secrets, know-how or other proprietary information. If we are unable to maintain the proprietary nature of our technologies, our results of operations and financial condition could be materially and adversely affected.

If we fail to meet our debt service requirements or the restrictive covenants in our debt agreements or if interest rates increase, our results of operations and financial condition could be materially and adversely affected.

We have a substantial amount of debt upon which we are required to make scheduled interest and principal payments and we may incur additional debt in the future. A significant portion of our debt bears interest at variable rates that may increase in the future. Our debt agreements require us to comply with certain restrictive covenants. If we are unable to generate sufficient cash to service our debt or if interest rates increase, our results of operations and financial condition could be materially and adversely affected. Additionally, a failure to comply with the restrictive covenants contained in our debt agreements could result in a default, which if not waived by our lenders, could substantially increase borrowing costs and require accelerated repayment of our debt. Please refer to Note 11 of the Consolidated Financial Statements in Part II Item 8 of this Form 10-K for commentary on our compliance with the restrictive covenants in our debt agreements as of December 31, 2013.

Item 1B. Unresolved Staff Comments None.

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Item 2. Properties

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Our principal executive offices are located at 1000 Cranberry Woods Drive, Cranberry Township, PA 16066 in a 212,000 square-foot building owned by us. We own or lease our primary facilities in the United States and in a number of other countries. We believe that all of our facilities, including the manufacturing facilities, are in good repair and in suitable condition for the purposes for which they are used.

The following table sets forth a list of our primary facilities:

The following those sets for	and that of our primary facilities.		Owned
Location	Function	Square Feet	or Leased
North America			
Murrysville, PA	Manufacturing	295,000	Owned
Cranberry Twp., PA	Office, Research and Development and Manufacturing	212,000	Owned
New Galilee, PA	Distribution	120,000	Leased
Jacksonville, NC	Manufacturing	107,000	Owned
Queretaro, Mexico	Office, Manufacturing and Distribution	77,000	Leased
Cranberry Twp., PA	Research and Development	68,000	Owned
Lake Forest, CA	Office, Research and Development and Manufacturing	62,000	Leased
Corona, CA	Manufacturing	19,000	Leased
Torreon, Mexico	Office	15,000	Leased
Lake Forest, CA	Office	6,000	Owned
Europe		·	
Berlin, Germany	Office, Research and Development, Manufacturing and Distribution	340,000	Leased
Chatillon sur Chalaronne, France	Office, Research and Development, Manufacturing and Distribution	94,000	Owned
	Office	43,000	Owned
Milan, Italy	Office	25,000 25,000	Leased
Glasgow, Scotland		24,000	Owned
Mohammedia, Morocco	Manufacturing Office	23,000	Owned
Barcelona, Spain Galway, Ireland		20,000	Owned
Varnamo, Sweden	Office and Manufacturing Office, Manufacturing and Distribution	18,000	Leased
Hoorn, Netherlands	Office and Distribution	•	Owned
International	Office and Distribution	12,000	Owned
Suzhou, China	Office, Research and Development, Manufacturing and Distribution	193,000	Owned
Sydney, Australia	Office, Manufacturing and Distribution	84,000	Owned
Johannesburg, South Africa	a Office, Manufacturing and Distribution	74,000	Leased
Sao Paulo, Brazil	Office, Manufacturing and Distribution	74,000	Owned
Lima, Peru	Office and Distribution	34,000	Owned
Santiago, Chile	Office and Distribution	32,000	Leased
Rajarhat, India	Office and Distribution	10,000	Leased
Buenos Aires, Argentina	Office and Distribution	9,000	Owned

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Item 3. Legal Proceedings

We categorize the product liability losses that we experience into two main categories; single incident and cumulative trauma. Single incident product liability claims are discrete incidents that are typically known to us when they occur and involve observable injuries and, therefore, more quantifiable damages. Therefore, we maintain a reserve for single incident product liability claims based on expected settlement costs for pending claims and an estimate of costs for unreported claims derived from experience, sales volumes and other relevant information. Our reserve for single incident product liability claims at December 31, 2013 and 2012 was \$4.0 million and \$4.4 million, respectively. Single incident product liability expense was negligible during year ended December 31, 2013. During the years ended December 31, 2012 and 2011, single incident product liability expense was \$0.7 million and \$1.5 million, respectively. We evaluate our single incident product liability expenses on an ongoing basis and make adjustments to the reserve as new information becomes available.

Cumulative trauma product liability claims involve exposures to harmful substances (e.g., silica, asbestos and coal dust) that occurred many years ago and may have developed over long periods of time into diseases such as silicosis, asbestosis or coal worker's pneumoconiosis. We are presently named as a defendant in 2,840 lawsuits in which plaintiffs allege to have contracted certain cumulative trauma diseases related to exposure to silica, asbestos, and/or coal dust. These lawsuits mainly involve respiratory protection products allegedly manufactured and sold by us. We are unable to estimate total damages sought in these lawsuits as they generally do not specify the injuries alleged or the amount of damages sought, and potentially involve multiple defendants.

Cumulative trauma product liability litigation is difficult to predict. In our experience, until late in a lawsuit, we cannot reasonably determine whether it is probable that any given cumulative trauma lawsuit will ultimately result in a liability. This uncertainty is caused by many factors, including the following: cumulative trauma complaints generally do not provide information sufficient to determine if a loss is probable; cumulative trauma litigation is inherently unpredictable and information is often insufficient to determine if a lawsuit will develop into an actively litigated case; and even when a case is actively litigated, it is often difficult to determine if the lawsuit will be dismissed or otherwise resolved until late in the lawsuit. Moreover, even once it is probable that such a lawsuit will result in a loss, it is difficult to reasonably estimate the amount of actual loss that will be incurred. These amounts are highly variable and turn on a case-by-case analysis of the relevant facts, which are often not learned until late in the lawsuit. Because of these factors, we cannot reliably determine our potential liability for such claims until late in the lawsuit. Therefore, we do not record cumulative trauma product liability losses when a lawsuit is filed, but rather, when we learn sufficient information to determine that it is probable that we will incur a loss and the amount of loss can be reasonably estimated. We record expenses for defense costs associated with open cumulative trauma product liability lawsuits as incurred.

We cannot estimate any amount or range of possible losses related to resolving pending and future cumulative trauma product liability lawsuits that we may face because of the factors described above. As new information about cumulative trauma product liability cases and future developments becomes available, we reassess our potential exposures.

A summary of cumulative trauma product liability lawsuit activity follows:

	2013	2012	2011	
Open lawsuits, January 1	2,609	2,321	1,900	
New lawsuits	489	750	479	
Settled and dismissed lawsuits	(258) (462) (58)
Open lawsuits, December 31	2,840	2,609	2,321	

2012

2011

Nearly half of the open lawsuits at December 31, 2013 have had a de minimus level of activity over the last five years. It is possible that these cases could become active again at any point due to changes in circumstances.

With some common contract exclusions, we maintain insurance for cumulative trauma product liability claims. We have purchased insurance policies for the policy years from 1952-1986 from over 20 different insurance carriers that provide coverage for cumulative trauma product liability losses and, in many instances, related defense costs. In the normal course of business, we make payments to settle product liability lawsuits and for related defense costs. We record receivables for the amounts that are covered by insurance. The available limits of these policies are many times

our recorded insurance receivable balance.

Various factors could affect the timing and amount of recovery of our insurance receivables, including the outcome of negotiations with insurers, legal proceedings with respect to product liability insurance coverage and the extent to which insurers may become insolvent in the future.

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Our insurance receivables at December 31, 2013 and 2012 totaled \$124.8 million and \$130.0 million, respectively, all of which is reported in other non-current assets.

A summary of insurance receivable balances and activity related to cumulative trauma product liability losses follows:

(In millions)	2013	2012	2011	
Balance January 1	\$130.0	\$112.1	\$89.0	
Additions	34.0	29.7	35.6	
Collections and settlements	(39.2) (11.8) (12.5)
Balance December 31	124.8	130.0	112.1	

Additions to insurance receivables in the above table represent insured cumulative trauma product liability losses and related defense costs. Uninsured cumulative trauma product liability losses during the years ended December 31, 2013, 2012, and 2011 were \$1.7 million, \$2.1 million and \$1.1 million, respectively. Collections primarily represent agreements with insurance companies to pay amounts due that are applicable to cumulative trauma claims. In cases where the payment stream covers multiple years, the present value of the payments is recorded as a note receivable (current and long term) in the balance sheet within prepaid expenses and other current assets and other noncurrent assets.

Our aggregate cumulative trauma product liability losses and administrative and defense costs for the three years ended December 31, 2013, totaled approximately \$104.2 million, substantially all of which was insured. We believe that the increase in the insurance receivable balance that we have experienced since 2005 is primarily due to disagreements among our insurance carriers, and consequently with us, as to when their individual obligations to pay us are triggered and the amount of each insurer's obligation, as compared to other insurers. We believe that our insurers do not contest that they have issued policies to us or that these policies cover certain cumulative trauma product liability claims. We believe that our ability to successfully resolve our insurance litigation with various insurance carriers in recent years demonstrates that we have strong legal positions concerning our rights to coverage. We regularly evaluate the collectability of our insurance receivables and record the amounts that we conclude are probable of collection. Our conclusions are based on our analysis of the terms of the underlying insurance policies, our experience in successfully recovering cumulative trauma product liability claims from our insurers under other policies, the financial ability of our insurance carriers to pay the claims, our understanding and interpretation of the relevant facts and applicable law and the advice of legal counsel, who believe that our insurers are required to provide coverage based on the terms of the policies.

Although the outcome of cumulative trauma product liability matters cannot be predicted with certainty and unfavorable resolutions could materially affect our results of operations, based on information currently available and the amounts of insurance coverage available to us, we believe that the disposition of cumulative trauma product liability lawsuits that are pending against us will not have a materially adverse effect on our future results of operations, financial condition, or liquidity.

We are currently involved in insurance coverage litigations with a number of our insurance carriers. In 2009, we sued The North River Insurance Company (North River) in the United States District Court for the Western District of Pennsylvania, alleging that North River breached one of its insurance policies by failing to pay amounts owed to us and that it engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under the policy for product liability losses and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Motions for summary judgment on certain issues will be submitted to the court at the earliest possible date. A trial date has not yet been scheduled.

In 2010, North River sued us in the Court of Common Pleas of Allegheny County, Pennsylvania seeking a declaratory judgment concerning their responsibilities under three additional policies. We assert claims against North River for breaches of contract for failures to pay amounts owed to us. We also allege that North River engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under these policies for product liability losses and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Summary judgment on certain issues is pending with the court. A trial date has not yet been scheduled.

In July 2010, we filed a lawsuit in the Superior Court of the State of Delaware seeking declaratory and other relief from the majority of our excess insurance carriers concerning the future rights and obligations of MSA and our excess insurance carriers under various insurance policies. The reason for this insurance coverage action is to secure a comprehensive resolution of our rights under the insurance policies issued by our insurers. The case is currently in discovery. We have resolved our claims against certain of our insurance carriers on some of their policies through negotiated settlements. When settlement is reached, we dismiss the settling carrier from this action in Delaware.

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During September 2013, we resolved coverage litigation with Associated International Insurance Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Associated International Insurance Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Allstate Insurance Company, through a negotiated settlement. As part of this settlement, both parties dismissed all claims against one another under the above-referenced coverage litigations in the Court of Common Pleas of Allegheny County, Pennsylvania and the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Columbia Casualty Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Columbia Casualty Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

Item 4. Mine Safety Disclosures

Not applicable.

Executive Officers of the Registrant

The following sets forth the names and ages of our executive officers as of February 24, 2014, indicating all positions held during the past five years:

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Name	Age	Title
William M. Lambert	55	President and Chief Executive Officer since May 2008.
Joseph A. Bigler ^(a)	64	Vice President and Chief Customer Officer since August 2013.
Steven C. Blanco ^(b)	47	Vice President, Global Operational Excellence since April 2012.
Kerry M. Bove ^(c)	55	Vice President and President, MSA International, Asia-Pacific Zone and Africa/Latin America Zone since November 2011.
Ronald N. Herring, Jr. ^(d)	53	Vice President and President, MSA International, Western Europe Zone and Middle Eurasia Zone since November 2011.
Douglas K. McClaine	56	Vice President, Secretary and General Counsel since May 2005.
C	50	vice Fresident, Secretary and General Counsel since Way 2003.
Stacy McMahan ^(e)	50	Senior Vice President, Chief Financial Officer and Treasurer since August 2013.
Thomas Muschter ^(f)	53	Vice President, Global Product Leadership since November 2011.
Paul R. Uhler	55	Vice President, Global Human Resources since May 2007.
Nishan Vartanian(g)	54	Vice President and President, MSA North America since August 2013.
Markus H. Weber ^(h)	49	Vice President and Chief Information Officer since April 2010.

- (a) Prior to his present position, Mr. Bigler served as Vice President and President, MSA North America.
- (b) Prior to joining MSA, Mr. Blanco served as Vice President of Manufacturing for the Electrical Sector of Eaton Corporation, a diversified power management company.
- (c) Prior to his present position, Mr. Bove was Vice President, Global Operational Excellence.
- (d) Prior to his present position, Mr. Herring was Vice President, Global Product Leadership.

 Prior to her current position, Ms. McMahan served as Senior Vice President of Finance, MSA. Prior to joining
- (e) MSA, Ms. McMahan served as Customer Channels Group Vice President, Finance, for Thermo Fisher Scientific, Inc., a global provider of laboratory equipment and supplies.
- Prior to his present position, Dr. Muschter held the positions of Director, Research & Development, International; and Director, Research & Development, Europe.
- (g) Prior to his present position, Mr. Vartanian was Vice President, Fixed Gas and Flame Detection.
- (h) Prior to joining MSA, Mr. Weber served as Chief Information Officer of Berlin-Chemie AG, an international research-based pharmaceutical company.

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PART II

Item 5. Market for the Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities

Our common stock is traded on the New York Stock Exchange under the symbol "MSA." Stock price ranges and dividends declared were as follows:

Price Range			
Common Stock		Dividends	
High	Low		
\$42.47	\$32.65	\$0.26	
44.34	37.38	0.28	
40.81	32.93	0.28	
42.87	35.37	0.56	
\$51.07	\$43.04	\$0.28	
51.12	43.97	0.30	
55.38	46.60	0.30	
54.84	46.54	0.30	
	Common Stor High \$42.47 44.34 40.81 42.87 \$51.07 51.12 55.38	High Low \$42.47 \$32.65 44.34 37.38 40.81 32.93 42.87 35.37 \$51.07 \$43.04 51.12 43.97 55.38 46.60	

On February 17, 2014, there were 502 registered holders of our shares of common stock. Issuer Purchases of Equity Securities

Period	Total Number of Shares Purchased	Average Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Plans or Programs	Maximum Number of Shares that May Yet Be Purchased Under the Plans or Programs
October 1 — October 31, 2013	2,475	\$48.91	_	1,011,217
November 1 — November 30, 2013	6,934	44.91	_	977,523
December 1 — December 31, 2013	2,370	42.37	_	950,990

In November 2005, the Board of Directors authorized the purchase of up to \$100 million of MSA common stock either through private transactions or open market transactions. The share purchase program has no expiration date. The maximum shares that may yet be purchased is calculated based on the dollars remaining under the program and the respective month-end closing share price. We do not have any other share purchase programs. The above share purchases are related to stock compensation transactions.

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Comparison of Five-Year Cumulative Total Return

The following paragraph compares the most recent five year performance of MSA stock with (1) the Standard & Poor's 500 Composite Index and (2) the Russell 2000 Index. Because our competitors are principally privately held concerns or subsidiaries or divisions of corporations engaged in multiple lines of business, we do not believe it feasible to construct a peer group comparison on an industry or line-of-business basis. The Russell 2000 Index, while including corporations both larger and smaller than MSA in terms of market capitalization, is composed of corporations with an average market capitalization similar to us.

COMPARISON OF 5 YEAR CUMULATIVE TOTAL RETURN*

Among Mine Safety Appliance Company, the S&P 500 Index, and the Russell 2000 Index

* \$100 invested on 12/31/08 in stock or index, including reinvestment of dividends. Fiscal year ending December 31.

	Value at December 31,				•			
	2008	2009	2010	2011	2012	2013		
Mine Safety Appliances Co	\$100.00	\$115.55	\$140.90	\$154.61	\$206.83	\$254.02		
S&P 500 Index	100.00	126.46	145.51	148.59	172.37	228.19		
Russell 2000 Index	100.00	127.09	161.17	154.44	179.75	249.53		

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Item 6. Selected Financial Data					
(In thousands, except as noted)	2013	2012	2011	2010	2009
Statement of Income Data:					
Net sales	\$1,112,058	\$1,110,443	\$1,112,814	\$922,552	\$865,718
Income from continuing operations	85,858	87,557	67,518	35,886	42,072
Income from discontinued operations	2,389	3,080	2,334	2,218	1,223
Net income attributable to Mine Safety	88,247	90,637	69,852	38,104	43,295
Appliances Company	00,247	90,037	09,032	30,104	43,293
Earnings per share attributable to MSA					
common shareholders:					
Basic per common share (in dollars):					
Income from continuing operations	\$2.31	\$2.37	\$1.85	\$1.00	\$1.18
Income from discontinued operations	0.06	0.08	0.06	0.06	0.03
Net income	2.37	2.45	1.91	1.06	1.21
Diluted per common share (in dollars):					
Income from continuing operations	\$2.28	\$2.34	\$1.81	\$0.99	\$1.18
Income from discontinued operations	0.06	0.08	0.06	0.06	0.03
Net income	2.34	2.42	1.87	1.05	1.21
Dividends paid per common share	1.18	1.38	1.03	0.99	0.96
(in dollars)	1.10	1.30	1.03	0.77	0.70
Weighted average common shares	36,868	36,564	36,221	35,880	35,668
outstanding—basic	30,000	30,304	30,221	33,000	33,000
Weighted average common shares	37,450	37,042	36,831	36,422	35,879
outstanding—diluted	37,130	37,012	20,021	50,122	35,675
Balance Sheet Data:					
Total assets	\$1,234,270	\$1,111,746	\$1,115,052	\$1,197,188	\$875,228
Long-term debt	260,667	272,333	334,046	367,094	82,114
Shareholders' Equity	566,452	462,955	433,666	451,368	436,616

The data presented in the Selected Financial Data table should be read in conjunction with comments provided in Management's Discussion and Analysis of Financial Condition and Results of Operations in Part II Item 7 and the Consolidated Financial Statements in Part II Item 8 of this Form 10-K.

Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations
The following discussion and analysis should be read in conjunction with the historical financial statements and other
financial information included elsewhere in this annual report on Form 10-K. This discussion may contain
forward-looking statements that involve risks and uncertainties. The forward-looking statements are not historical
facts, but rather are based on current expectations, estimates, assumptions and projections about our industry, business
and future financial results. Our actual results could differ materially from the results contemplated by these
forward-looking statements due to a number of factors, including those discussed in the sections of this annual report
entitled "Forward-Looking Statements" and "Risk Factors."

MSA's South African personal protective equipment distribution business and MSA's Zambian operations had historically been part of the International reportable segment. In accordance with generally accepted accounting principles, these results are excluded from continuing operations and are presented as discontinued operations in all periods presented. Please refer to Note 19 Assets Held for Sale and Discontinued Operations, which is included in Part II Item 8 of this form 10-K for further commentary on these discontinued operations.

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BUSINESS OVERVIEW

We are a global leader in the development, manufacture and supply of products that protect people's health and safety. Our safety products typically integrate any combination of electronics, mechanical systems and advanced materials to protect users against hazardous or life threatening situations. Our comprehensive lines of safety products are used by workers around the world in the oil and gas, fire service, mining, construction and other industries, as well as the military. We are committed to providing our customers with service unmatched in the safety industry and, in the process, enhancing our ability to provide a growing line of safety solutions for customers in key global markets. We tailor our product offerings and distribution strategy to satisfy distinct customer preferences that vary across geographic regions. To best serve these customer preferences, we have organized our business into eleven geographical operating segments that are aggregated into three reportable geographic segments: North America, Europe and International. Each segment includes a number of operating segments. In 2013, 50%, 26% and 24% of our net sales were made by our North American, European and International segments, respectively.

North America. Our largest manufacturing and research and development facilities are located in the United States. We serve our North American markets with sales and distribution functions in the U.S., Canada and Mexico. Europe. Our European segment includes companies in most Western European countries, and a number of Eastern European countries along with locations in the Middle East and Russia. Our largest European companies, based in Germany and France, develop, manufacture and sell a wide variety of products. Operations in other European segment countries focus primarily on sales and distribution in their respective home country markets. While some of these companies may perform limited production, most of their sales are of products that are manufactured in our plants in Germany, France, the U.S. and China, or are purchased from third party vendors.

International. Our International segment includes companies in South America, Africa and the Asia Pacific region, some of which are in developing regions of the world. Principal International segment manufacturing operations are located in Australia, Brazil, China and South Africa. These companies manufacture products that are sold primarily in each company's home country and regional markets. The other companies in the International segment focus primarily on sales and distribution in their respective home country markets. While some of these companies may perform limited production, most of their sales are of products that are manufactured in our plants in China, Germany, France and the U.S., or are purchased from third party vendors.

RESULTS OF OPERATIONS

Year Ended December 31, 2013 Compared to Year Ended December 31, 2012

Net Sales from continuing operations. Net sales for the year ended December 31, 2013 were \$1,112.1 million, an increase of \$1.7 million, from \$1,110.4 million for the year ended December 31, 2012.

For the year ended December 31, 2013, local currency core product sales increased by 6%, now comprising 73% of our total business, up from 70% for the year ended December 31, 2012. By product group, portable instruments increased 11%, fixed gas & flame detection instruments and fall protection each increased 6%, breathing apparatus increased 4%, and head protection increased 3% on a local currency basis. The remaining 27% of sales decreased 10% on a lower level of mining related business in the International segment, lower gas mask sales in the United States, and the absence of ballistic helmet sales in North America due to the divestiture of this business in the first half of 2012.

The unfavorable translation effects of weaker foreign currencies decreased net sales from continuing operations, when stated in U.S. dollars, by \$9.5 million. Excluding the impact of weakening foreign currencies and the divestiture of our North American ballistic helmet business of \$9.6 million, net sales from continuing operations increased \$20.8 million or 2%.

			Dollar	Percent	
(Dollars in millions)	2013	2012	Increase	Increase	
			(Decrease)	(Decrease)	
North America	\$559.2	\$551.9	\$7.3	1	%
Europe	289.8	289.5	0.3		
International	263.1	269.0	(5.9) (2)%
Total	1,112.1	1,110.4	1.7		%

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Net sales by the North American segment were \$559.2 million for the year ended December 31, 2013, an increase of \$7.3 million, or 1%, compared to \$551.9 million for the year ended December 31, 2012. Excluding the effects of the divestiture of the North American ballistic helmet business, North American segment sales increased \$16.9 million, or 3%, when compared to 2012. North American ballistic helmet sales were \$9.6 million lower in the current year, reflecting the divestiture. During the year ended December 31, 2013, we continued to see growth in the fire service and industrial markets. Shipments of instruments, self-contained breathing apparatus (SCBA) and head, eye and face protection were up \$21.3 million, \$3.2 million and \$2.9 million, respectively. These increases were partially offset by a \$7.6 million decrease in shipments of gas masks to military markets and other small decreases across a broad range of product lines.

Net sales for the European segment were \$289.8 million for the year ended December 31, 2013, an increase of \$0.3 million from \$289.5 million for the year ended December 31, 2012. Local currency sales in Europe decreased \$5.6 million. Shipments of fixed gas & flame detection decreased \$3.2 million on a local currency basis, while the remaining decrease in local currency sales was primarily due to lower adjacent product shipments to military markets. The favorable translation effects of a stronger euro in the current year increased European segment sales, when stated in U.S. dollars, by \$5.9 million.

Net sales for the International segment were \$263.1 million for the year ended December 31, 2013, a decrease of \$5.9 million, or 2%, compared to \$269.0 million for the year ended December 31, 2012. Currency translation effects decreased International segment sales, when stated in U.S. dollars, by \$16.1 million, primarily related to a weaker Australian dollar and Brazilian real. Local currency sales in the International segment increased \$10.2 million, as strength in the industrial markets was partially offset by weakness in the fire service and military markets. Shipments of instruments, self-contained breathing apparatus (SCBA) and fall protection, up \$9.1 million, \$5.7 million and \$2.0 million, respectively, were partially offset by lower shipments of head, eye, and face protection and circuit breathing apparatus, down \$3.1 million and \$2.7 million, respectively.

Other (loss) income. Other loss for the year ended December 31, 2013 was \$0.2 million. A \$1.6 million land impairment loss in the North American segment was partially offset by interest income of \$1.1 million and small gains from asset dispositions. The 2013 loss compares with income of \$10.9 million for the year ended December 31, 2012. In 2012, we recognized gains totaling \$8.4 million on property sales in our Cranberry Woods office park. In December 2012, we sold the last available parcel in Cranberry Woods. Other income for 2012 also included a \$4.8 million gain on an escrow settlement related to our October 2010 acquisition of the General Monitors group of companies. These improvements were partially offset by impairment losses on intangible assets and tooling related to our firefighter location project of \$4.3 million and \$0.5 million, respectively.

Cost of products sold. Cost of products sold was \$615.2 million for the year ended December 31, 2013, a decrease of \$5.7 million, or 1%, from \$620.9 million for the year ended December 31, 2012. Cost of products sold as a percentage of net sales was 55.3% in the year ended December 31, 2013 compared to 55.9% in 2012. The effect of LIFO liquidations during 2013 reduced cost of sales by \$2.1 million. The decrease in cost of products sold in relation to sales was also due to a more favorable product mix, lower manufacturing costs, and improved pricing.

Gross profit. Gross profit for the year ended December 31, 2013 was \$496.8 million, an increase of \$7.3 million, or 1%, from \$489.5 million for the year ended December 31, 2012. The ratio of gross profit to net sales was 44.7% for 2013 compared to 44.1% in 2012. The higher gross profit ratio in 2013 was primarily related to a more favorable proportion of core product sales, lower manufacturing costs including the effect of LIFO liquidations, and improved pricing.

Selling, general and administrative expenses. Selling, general and administrative expenses for the year ended December 31, 2013 were \$309.2 million, a decrease of \$3.7 million, or 1%, from \$312.9 million for the year ended December 31, 2012. Selling, general and administrative expenses were 27.8% of net sales in 2013 compared to 28.2% of net sales in 2012. Local currency selling, general and administrative expenses decreased \$0.9 million in the current period. The decrease reflects reduced administrative expense in our International and European segments and lower legal expense associated with the product liability matters, partially offset by higher pension expense. Currency translation effects decreased selling, general and administrative expenses for the year ended December 31, 2013, when stated in U.S. dollars, by \$2.8 million. The decrease was primarily related to a Australian dollar, Brazilian real and

South African rand, partially offset by a stronger euro.

Research and development expenses. Research and development expenses were \$45.9 million for the year ended December 31, 2013, an increase of \$5.0 million, or 12%, from \$40.9 million for the year ended December 31, 2012. The increase reflects our ongoing focus on developing innovative new core products, including the G1 SCBA and FAS-Trac III Industrial Helmet Suspension.

Restructuring and other charges. For the year ended December 31, 2013, we recorded non-recurring charges of \$5.3 million. European segment charges of \$3.0 million related primarily to staff reductions in Germany and the Netherlands. International segment charges of \$2.3 million were primarily related to staff reductions in Australia and South Africa.

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Charges for the year ended December 31, 2012 were related to severance costs associated with staff reductions in our North American, European and International segments of \$1.5 million, \$1.1 million and \$0.2 million, respectively. Interest expense. Interest expense for the year ended December 31, 2013 was \$10.7 million, a decrease of \$0.6 million, or 5%, from \$11.3 million for the year ended December 31, 2012. The decrease in interest expense reflects lower borrowing levels in the current year.

Currency exchange. Currency exchange losses were \$5.5 million during the twelve months ended December 31, 2013, compared to losses of \$3.2 million during the same period in 2012. Currency exchange losses in both periods were mostly unrealized and relate primarily to the effect of the strengthening U.S. dollar on intercompany balances. Income tax provision. Our effective tax rate from continuing operations for the year ended December 31, 2013 was 29.3% compared to 32.0% for the year ended December 31, 2012. The lower effective tax rate for the year was primarily related to a tax benefit recognized for the research and development tax credit, including the benefit related to the recognition of the 2012 credit in January 2013. A favorable mix of income sourced from lower tax jurisdictions also contributed to the lower effective tax rate in 2013.

Net income from continuing operations. Net income from continuing operations for the year ended December 31, 2013 was \$85.9 million, a decrease of \$1.7 million, or 2%, from net income from continuing operations for the year ended December 31, 2012 of \$87.6 million. Local currency net income decreased by \$0.9 million. Currency translation effects decreased current period net income when stated in U.S. dollars, by \$0.8 million. Basic earnings per share from continuing operations was \$2.31 in 2013 compared to \$2.37 in 2012, a decrease of 6 cents per share, or 3%.

North American segment net income for the year ended December 31, 2013 was \$70.6 million, an improvement of \$6.3 million, or 10%, from \$64.3 million for the year ended December 31, 2012. The increase in North American segment net income reflects higher sales and gross profits and decreased restructuring expense, partially offset by increased selling, general and administrative expenses from higher payroll, legal fees, and other professional services fees.

European segment net income for the year ended December 31, 2013 was \$18.4 million, a decrease of \$2.0 million, or 10%, from \$20.4 million for the year ended December 31, 2012. Local currency net income decreased by \$3.1 million, reflecting lower gross profits on lower sales and increased restructuring expense, partially offset by lower selling, general and administrative expense. The favorable translation effects of a stronger euro in the current year increased European segment net income, when stated in U.S. dollars, by \$1.1 million.

International segment net income for the year ended December 31, 2013 was \$20.4 million, an increase of \$1.2 million, or 6%, from \$19.2 million for the year ended December 31, 2012. Currency translation effects decreased current period International segment net income when stated in U.S. dollars, by \$1.2 million, primarily due to a weaker Australian dollar and Brazilian real. Higher local currency net income was primarily related to increased gross profits from increased sales, lower selling, general and administrative expenses, partially offset by increased restructuring expense.

The net loss reported in reconciling items for the year ended December 31, 2013 was \$23.5 million, compared to a net loss of \$16.4 million for the year ended December 31, 2012. The higher loss during the year ended December 31, 2013 reflects higher currency exchange losses. Additionally, the year ended December 31, 2012 benefited from the previously-discussed one-time gain on the sale of land in our Cranberry Woods office park.

Year Ended December 31, 2012 Compared to Year Ended December 31, 2011

Net sales. Net sales for the year ended December 31, 2012 were \$1,110.4 million, a decrease of \$2.4 million, from \$1,112.8 million for the year ended December 31, 2011. Excluding the effects of weakening currencies and the divestitures of our ballistic vest and North American ballistic helmet businesses, sales increased \$67.4 million, or 6%. Sales of ballistic vests and helmets were \$36.0 million lower in 2012, reflecting the divestiture of those businesses. The unfavorable translation effects of weaker foreign currencies decreased sales, when stated in U.S. dollars, by \$33.8 million.

Net Sales			Dollar	Percent
	2012	2011	Increase	Increase
(Dollars in millions)			(Decrease)	(Decrease)

North America	\$551.9 289.5	\$561.1 286.8	\$(9.2 2.7) (2)% %
Europe International	269.0 269.0	264.9	4.1	2	% %
Total	1,110.4	1,112.8	(2.4) —	%
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Net sales by the North American segment were \$551.9 million for the year ended December 31, 2012, a decrease of \$9.2 million, or 2%, compared to \$561.1 million for the year ended December 31, 2011. During the year ended December 31, 2012, we continued to see growth in the fire service and industrial markets. Shipments of instruments, head, eye and face protection and self-contained breathing apparatus (SCBA) were up \$25.1 million, \$4.7 million and \$2.2 million, respectively. These increases were offset by a \$4.7 million decrease in shipments of communication devices and a \$36.0 million decrease in shipments of ballistic helmets and vests to military markets. We divested our ballistic vest and North American ballistic helmet businesses during the fourth quarter of 2011 and the second quarter of 2012, respectively.

Net sales for the European segment were \$289.5 million for the year ended December 31, 2012, an increase of \$2.7 million, or 1%, from \$286.8 million for the year ended December 31, 2011. Local currency sales increased \$22.4 million, reflecting higher shipments of instruments, SCBA, ballistic helmets, and respirators, up \$10.8 million, \$4.8 million, \$4.2 million, and \$3.3 million, respectively. The increase was partially offset by a \$2.1 million decrease in shipments of gas masks to military markets. Currency translation effects decreased European segment sales, when stated in U.S. dollars, by \$19.7 million, primarily related to a weaker euro.

Net sales of our International segment were \$269.0 million for the year ended December 31, 2012, an increase of \$4.1 million, or 2%, compared to \$264.9 million for the year ended December 31, 2011. Local currency sales in the International segment increased \$16.6 million during the year ended December 31, 2012. Growth in fire service markets in China and Latin America led to increases in sales of SCBA and fire helmets of \$10.0 million and \$3.9 million, respectively. In addition, sales of head, eye and face protection to industrial markets improved by \$7.6 million, offset by decreased shipments of circuit breathing apparatus and gas masks of \$4.5 million and \$0.4 million, respectively. Currency translation effects decreased International segment sales, when stated in U.S. dollars, by \$12.5 million, primarily related to a weaker Brazilian real and South African rand.

Other income. Other income for the year ended December 31, 2012 was \$10.9 million, an increase of \$5.4 million, from \$5.5 million for the year ended December 31, 2011. During the year ended December 31, 2012, we recognized gains on the sale of assets totaling \$8.4 million compared to gains of \$3.3 million in 2011. These gains in both years were primarily related to property sales in our Cranberry Woods office park. In December 2012, we sold the last available parcel in Cranberry Woods. Other income for the year ended December 31, 2012 also includes a \$4.8 million gain on an escrow settlement related to our October 2010 acquisition of the General Monitors group of companies. These improvements were partially offset by impairment losses on intangible assets and tooling related to our firefighter location project of \$4.3 million and \$0.5 million, respectively.

Cost of products sold. Cost of products sold was \$620.9 million for the year ended December 31, 2012, a decrease of \$33.5 million, or 5%, from \$654.4 million for the year ended December 31, 2011. Cost of products sold as a percentage of sales was 55.9% in the year ended December 31, 2012 compared to 58.8% in 2011. The decrease in cost of products sold in relation to sales was primarily due to lower manufacturing costs, a more favorable product mix, and improved pricing.

Gross profit. Gross profit for the year ended December 31, 2012 was \$489.5 million, an increase of \$31.1 million, or 7%, from \$458.4 million for the year ended December 31, 2011. The ratio of gross profit to sales was 44.1% for 2012 compared to 41.2% in 2011. The higher gross profit ratio in 2012 was primarily related to lower manufacturing costs, a more favorable product mix, and improved pricing.

Selling, general and administrative expenses. Selling, general and administrative expenses for the year ended December 31, 2012 were \$312.9 million, an increase of \$15.1 million, or 5%, from \$297.8 million for the year ended December 31, 2011. Selling, general and administrative expenses were 28.2% of sales in 2012 compared to 26.8% of sales in 2011. Local currency selling, general and administrative expenses increased \$24.2 million across all segments, reflecting higher selling costs, an increase in due diligence and consulting expense related to special projects and an increase in product liability related legal and administrative expenses. Currency translation effects decreased selling, general and administrative expenses for the year ended December 31, 2012, when stated in U.S. dollars, by \$9.1 million, primarily related to a weaker euro, Brazilian real and South African rand.

Research and development expenses. Research and development expenses were \$40.9 million for the year ended December 31, 2012, an increase of \$1.7 million, or 4%, from \$39.2 million for the year ended December 31, 2011.

The increase reflected our ongoing focus on developing innovative new core products. Restructuring and other charges. For the year ended December 31, 2012, we recorded charges of \$2.8 million. Charges for the year ended December 31, 2012 were related to severance costs associated with staff reductions in our North American, European and International segments of \$1.5 million, \$1.1 million and \$0.2 million, respectively.

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For the year ended December 31, 2011, we recorded charges of \$8.6 million. European segment charges of \$5.8 million for the year ended December 31, 2011, related primarily to staff reductions and the transfer of certain production activities to China. North American segment charges for the year ended December 31, 2011 of \$1.7 million included costs associated with the relocation of certain administrative and production activities. International segment charges for the year ended December 31, 2011 of \$1.1 million were related primarily to severance costs associated with the relocation of our Wuxi, China operations to Suzhou, China.

Interest expense. Interest expense for the year ended December 31, 2012 was \$11.3 million, a decrease of \$2.8 million, or 20%, from \$14.1 million for the year ended December 31, 2011. The decrease in interest expense reflects lower borrowing on our revolving credit line and lower interest rates.

Income tax provision. Our effective tax rate for the year ended December 31, 2012 was 32.0% compared to 33.4% for the year ended December 31, 2011. The lower effective tax rate for the year was primarily related to a tax benefit associated with a non cash charitable contribution of land at our Cranberry Woods office park and a higher manufacturing deduction credit. These gains were partially offset by the expiration of the research and development tax credit at the end of 2011. In January 2013, the research and development tax credit was reinstated retroactively to the beginning of 2012.

Net income from continuing operations. Net income from continuing operations for the year ended December 31, 2012 was \$87.6 million, an increase of \$20.1 million, or 30%, from net income for the year ended December 31, 2011 of \$67.5 million. Local currency net income increased by \$23.0 million. Currency translation effects decreased current period net income when stated in U.S. dollars, by \$2.9 million, primarily due to a weaker Australian dollar, Brazilian real, and euro. Basic earnings per share from continuing operations was \$2.37 in 2012 compared to \$1.85 in 2011, an increase of 52 cents per share, or 28%.

North American segment net income for the year ended December 31, 2012 was \$64.3 million, an improvement of \$10.6 million, or 20%, from \$53.7 million for the year ended December 31, 2011. The increase in North American segment net income reflects higher gross profits driven by controlled manufacturing costs, a more favorable sales mix and improved pricing, partially offset by an increase in selling, general and administrative expenses. European segment net income for the year ended December 31, 2012 was \$20.4 million, an increase of \$8.7 million, or 74%, from \$11.7 million for the year ended December 31, 2011. Local currency net income increased by \$9.4 million, reflecting improved gross profits and lower restructuring charges. Currency translation effects decreased European segment net income, when stated in U.S. dollars, by \$0.7 million, mainly due to a weaker euro. International segment net income for the year ended December 31, 2012 was \$19.2 million, a decrease of \$5.6 million, or 23%, from \$24.8 million for the year ended December 31, 2011. Currency translation effects decreased current period International segment net income when stated in U.S. dollars, by \$2.4 million, primarily due to a weaker Australian dollar and Brazilian real. Lower local currency net income decreased \$3.2 million reflecting higher selling, general and administrative expenses and higher income taxes, partially offset by improved gross profits. The net loss reported in reconciling items for the year ended December 31, 2012 was \$16.4 million, compared to a net loss of \$22.7 million for the year ended December 31, 2011. The lower loss during the year ended December 31, 2012 reflects the one-time gain on the sale of land in our Cranberry Woods office park.

LIQUIDITY AND CAPITAL RESOURCES

Our main source of liquidity is operating cash flows, supplemented by borrowings. Our principal liquidity requirements are for working capital, capital expenditures, principal and interest payments on debt, dividend payments, and acquisitions. Approximately half of our long-term debt is at fixed interest rates with repayment schedules through 2021. The remainder of our long-term debt is at variable rates on an unsecured revolving credit facility that is due in 2016. Substantially all of our borrowings originate in the U.S., which has limited our exposure to non-U.S. credit markets and to currency exchange rate fluctuations.

At December 31, 2013, we had cash and cash equivalents totaling \$96.3 million, of which \$87.2 million was held by our foreign subsidiaries. The \$87.2 million of cash and cash equivalents are held by our foreign subsidiaries whose earnings are considered indefinitely reinvested at December 31, 2013. These funds could be subject to additional income taxes if repatriated. It is not practical to determine the potential income tax liability that we would incur if these funds were repatriated to the U.S. because the time and manner of repatriation is uncertain. We believe that

domestic cash and cash equivalents, domestic cash flows from operations, annual repatriation of a portion of the current period's foreign earnings, and the availability of our domestic line of credit are sufficient to fund our domestic liquidity requirements.

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Our unsecured senior revolving credit facility provides for borrowings up to \$300.0 million through 2016 and is subject to certain commitment fees. Loans made under the senior revolving credit facility bear interest at a variable rate. Loan proceeds may be used for general corporate purposes, including working capital, permitted acquisitions, capital expenditures and repayment of existing indebtedness. The credit agreement also provides for an uncommitted incremental facility that permits us, subject to certain conditions, to request an increase in the senior credit facility of up to \$50.0 million. At December 31, 2013, \$184.0 million of the \$300.0 million senior revolving credit facility was unused.

In January 2014 the Company determined that it was in technical violation of one loan covenant related to the threshold for priority indebtedness in its 2006 Senior Note Purchase Agreement dated December 20, 2006 which resulted in cross default violations in two other loan agreements. The Company obtained the appropriate waivers from its lenders which were fully executed on February 12, 2014. The underlying financial covenants of the Note Purchase Agreement were amended at the same time. We are currently in compliance with all of our debt covenants. During 2013 and 2012, we reduced borrowings on the senior revolving credit facility by \$5.0 million and \$55.0 million, respectively.

Management has filed to redeem the \$4.0 million of Industrial development debt on February 28, 2014. Cash and cash equivalents increased \$13.5 million during the year ended December 31, 2013, compared to an increase of \$22.8 million during 2012 and an increase of \$0.2 million during 2011.

Operating activities. Operating activities provided cash of \$110.8 million in 2013, compared to providing cash of \$150.5 million in 2012. Lower operating cash flow in 2013 is primarily related to changes in working capital, higher notes receivables from insurance companies, and lower net income. Insurance receivables related to cumulative trauma product liability losses were \$124.8 million at December 31, 2013 compared to \$130.0 million at December 31, 2012. Trade receivables were \$200.4 million at December 31, 2013 compared to \$191.3 million at December 31, 2012, reflecting a local currency increase of \$13.2 million on strong sales results in December, partially offset by unfavorable currency translation effects of \$4.1 million. Inventories were \$136.8 million at December 31, 2013, compared to \$136.3 million at December 31, 2012. Local currency increased \$6.3 million, partially due to anticipated demand for new products. Local currency increases were offset by unfavorable currency translation effects of \$5.8 million. Accounts payable were \$66.9 million at December 31, 2013 compared to \$59.5 million at December 31, 2012. Local currency accounts payable increased \$8.8 million, primarily in International and North America reflecting our ongoing initiative to improve operating cash flow, partially offset by favorable currency translation effects of \$1.4 million.

Operating activities provided cash of \$150.5 million in 2012, compared to providing cash of \$85.3 million in 2011. Significantly higher cash from operating activities in 2012 was primarily related to working capital improvements and higher net income. Trade receivables were \$191.3 million at December 31, 2012, a decrease of \$1.3 million, compared to \$192.6 million at December 31, 2011. The \$1.3 million decrease in trade receivables reflects a \$2.3 million decrease in local currency balances, partially offset by a \$1.0 million increase due to currency translation effects. LIFO inventories were \$136.3 million at December 31, 2012, a decrease of \$5.2 million, compared to \$141.5 million at December 31, 2011. The \$5.2 million decrease in inventories reflects a \$6.1 million decrease in local currency inventories, partially offset by a \$0.9 million increase due to currency translation effects. The decrease in local currency inventories reflects the divestiture of the ACH business, as well as our ongoing initiative to manage inventory levels. Accounts payable were \$59.5 million at December 31, 2012, an increase of \$9.3 million, compared to \$50.2 million at December 31, 2011. The \$9.3 million increase in accounts payable reflects our focus on extending payments by negotiating favorable terms with our vendors. Currency translation effects on accounts payable were negligible.

Investing activities. Investing activities used cash of \$35.2 million for the year ended December 31, 2013, compared to using \$17.3 million in 2012. The increase in cash used by investing activities in 2013 was due to lower cash generated by property disposals. Cash generated from property disposals was \$1.4 million in 2013 compared to \$20.2 million in 2012. The cash received from property disposals in 2012 include proceeds from the sale of land in our Cranberry Woods office park. Capital expenditures were \$36.5 million compared to \$32.2 million in 2012. The \$4.3 million increase in expenditures was driven primarily from higher investment in manufacturing in the International

segment.

Investing activities used cash of \$17.3 million for the year ended December 31, 2012, compared to using \$11.7 million in 2012. The higher use of cash in 2012 relates to a \$5.3 million short-term investment in the International segment. This investment was liquidated in 2013.

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Financing activities. Financing activities used cash of \$58.2 million for the year ended December 31, 2013, compared to using cash of \$110.5 million in 2012. During 2013, we paid down \$11.7 million of long-term debt compared to paying down \$63.0 million in 2012. We made dividend payments of \$44.0 million during 2013, compared to \$51.0 million during 2012. Dividends paid on our common stock during 2013 (our 97th consecutive year of dividend payment) were \$1.18 per share. Dividends paid on our common stock in 2012 and 2011 were \$1.38 and \$1.03 per share, respectively. The 2012 dividend included a special one-time dividend of \$0.28 per share that was paid on December 28, 2012. Restricted cash balances were \$2.8 million at December 31, 2013 and were primarily used to support letter of credit balances.

Financing activities used cash of \$110.5 million in 2012 compared to using cash of \$71.3 million in 2011. During 2012, we paid down \$63.0 million of long-term debt compared to paying down \$35.0 million in 2011. We made dividend payments of \$51.0 million during 2012, compared to \$37.7 million during 2011.

CUMULATIVE TRANSLATION ADJUSTMENTS

The year-end position of the U.S. dollar relative to international currencies resulted in a translation loss of \$6.1 million being credited to cumulative translation adjustments for the year ended December 31, 2013. This compares to a translation gain of \$4.1 million in 2012 and a translation loss of \$14.7 million in 2011. The translation loss in 2013 was primarily related to the weakening of the Australian Dollar, Brazilian Real and the Argentine Peso. The translation gain in 2012 was primarily related to the strengthening of the euro. The translation loss in 2011 was primarily related to the weakening of the euro and South African rand.

COMMITMENTS AND CONTINGENCIES

We are obligated to make future payments under various contracts, including debt and lease agreements. Our significant cash obligations as of December 31, 2013 were as follows:

(In millions)	Total	2014	2015	2016	2017	2018	Thereafter
Long-term debt	\$267.3	\$6.7	\$6.7	\$116.7	\$26.7	\$26.7	\$83.8
Operating leases	32.9	11.9	9.8	4.2	2.4	1.8	2.8
Totals	300.2	18.6	16.5	120.9	29.1	28.5	86.6

The significant obligations table does not include obligations to taxing authorities due to uncertainty surrounding the ultimate settlement of amounts and timing of these obligations.

We expect to meet our 2014, 2015, and 2017 debt service obligations through cash provided by operations. Approximately \$110.0 million of debt payable in 2016 relates to our unsecured senior revolving credit facility. We expect to generate sufficient operating cash flow to make payments against this amount each year. To the extent that a balance remains when the facility matures in 2016, we expect to refinance the remaining balance through new borrowing facilities.

The Company had outstanding bank guarantees and standby letters of credit with banks as of December 31, 2013 totaling \$9.0 million, of which \$6.0 million relate to the senior revolving credit facility. These letters of credit serve to cover customer requirements in connection with certain sales orders, insurance companies and the Company's industrial development debt. No amounts were drawn on these arrangements at December 31, 2013. The Company is also required to provide cash collateral in connection with certain arrangements. At December 31, 2013, the Company has \$2.2 million of restricted cash in support of these arrangements. At December 31, 2013, the Company also has a \$4.1 million guarantee relating to voluntary retirement payments for its unionized workers in Germany.

We expect to make net contributions of \$4.5 million to our pension plans in 2014.

We have purchase commitments for materials, supplies, services and property, plant and equipment as part of our ordinary conduct of business. In addition to these commitments, we also have contingencies related to product liability losses.

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We categorize the product liability losses that we experience into two main categories; single incident and cumulative trauma. Single incident product liability claims are discrete incidents that are typically known to us when they occur and involve observable injuries and, therefore, more quantifiable damages. Therefore, we maintain a reserve for single incident product liability claims based on expected settlement costs for pending claims and an estimate of costs for unreported claims derived from experience, sales volumes and other relevant information. Our reserve for single incident product liability claims at December 31, 2013 and 2012 was \$4.0 million and \$4.4 million, respectively. Single incident product liability expense was negligible during the year ended December 31, 2013. During the years ended December 31, 2012 and 2011, single incident product liability expense was \$0.7 million and \$1.5 million, respectively. We evaluate our single incident product liability exposures on an ongoing basis and make adjustments to the reserve as new information becomes available.

Cumulative trauma product liability claims involve exposures to harmful substances (e.g., silica, asbestos and coal dust) that occurred many years ago and may have developed over long periods of time into diseases such as silicosis, asbestosis or coal worker's pneumoconiosis. We are presently named as a defendant in 2,840 lawsuits in which plaintiffs allege to have contracted certain cumulative trauma diseases related to exposure to silica, asbestos, and/or coal dust. These lawsuits mainly involve respiratory protection products allegedly manufactured and sold by us. We are unable to estimate total damages sought in these lawsuits as they generally do not specify the injuries alleged or the amount of damages sought, and potentially involve multiple defendants.

Cumulative trauma product liability litigation is difficult to predict. In our experience, until late in a lawsuit, we cannot reasonably determine whether it is probable that any given cumulative trauma lawsuit will ultimately result in a liability. This uncertainty is caused by many factors, including the following: cumulative trauma complaints generally do not provide information sufficient to determine if a loss is probable; cumulative trauma litigation is inherently unpredictable and information is often insufficient to determine if a lawsuit will develop into an actively litigated case; and even when a case is actively litigated, it is often difficult to determine if the lawsuit will be dismissed or otherwise resolved until late in the lawsuit. Moreover, even once it is probable that such a lawsuit will result in a loss, it is difficult to reasonably estimate the amount of actual loss that will be incurred. These amounts are highly variable and turn on a case-by-case analysis of the relevant facts, which are often not learned until late in the lawsuit. Because of these factors, we cannot reliably determine our potential liability for such claims until late in the lawsuit. Therefore, we do not record cumulative trauma product liability losses when a lawsuit is filed, but rather, when we learn sufficient information to determine that it is probable that we will incur a loss and the amount of loss can be reasonably estimated. We record expenses for defense costs associated with open cumulative trauma product liability lawsuits as incurred.

We cannot estimate any amount or range of possible losses related to resolving pending and future cumulative trauma product liability lawsuits that we may face because of the factors described above. As new information about cumulative trauma product liability cases and future developments becomes available, we reassess our potential exposures.

A summary of cumulative trauma product liability lawsuit activity follows:

	2013	2012	2011	
Open lawsuits, January 1	2,609	2,321	1,900	
New lawsuits	489	750	479	
Settled and dismissed lawsuits	(258) (462) (58)
Open lawsuits, December 31	2,840	2,609	2,321	

Nearly half of the open lawsuits at December 31, 2013 have had a de minimus level of activity over the last five years. It is possible that these cases could become active again at any point due to changes in circumstances.

With some common contract exclusions, we maintain insurance for cumulative trauma product liability claims. We have purchased insurance policies for the policy years from 1952-1986 from over 20 different insurance carriers that provide coverage for cumulative trauma product liability losses and, in many instances, related defense costs. In the normal course of business, we make payments to settle product liability claims and for related defense costs. We record receivables for the amounts that are covered by insurance. The available limits of these policies are many times our recorded insurance receivable balance.

Various factors could affect the timing and amount of recovery of our insurance receivables, including the outcome of negotiations with insurers, legal proceedings with respect to product liability insurance coverage and the extent to which insurers may become insolvent in the future.

Our insurance receivables at December 31, 2013 and 2012 totaled \$124.8 million and \$130.0 million, respectively, all of which is reported in other non-current assets.

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A summary of insurance receivable balances and activity related to cumulative trauma product liability losses follows:

2	2	1	2	
(In millions)	2013	2012	2011	
Balance January 1	\$130.0	\$112.1	\$89.0	
Additions	34.0	29.7	35.6	
Collections and settlements	(39.2) (11.8) (12.5)
Balance December 31	124.8	130.0	112.1	

Additions to insurance receivables in the above table represent insured cumulative trauma product liability losses and related defense costs. Uninsured cumulative trauma product liability losses during the years ended December 31, 2013, 2012, and 2011 were \$1.7 million, \$2.1 million and \$1.1 million, respectively. Collections primarily represent agreements with insurance companies to pay amounts due that are applicable to cumulative trauma claims. In cases where the payment stream covers multiple years, the present value of the payments is recorded as a note receivable (current and long term) in the balance sheet within prepaid expenses and other current assets and other noncurrent

Our aggregate cumulative trauma product liability losses and administrative and defense costs for the three years ended December 31, 2013, totaled approximately \$104.2 million, substantially all of which was insured. We believe that the increase in the insurance receivable balance that we have experienced since 2005 is primarily due to disagreements among our insurance carriers, and consequently with us, as to when their individual obligations to pay us are triggered and the amount of each insurer's obligation, as compared to other insurers. We believe that our insurers do not contest that they have issued policies to us or that these policies cover certain cumulative trauma product liability claims. We believe that our ability to successfully resolve our insurance litigation with various insurance carriers in recent years demonstrates that we have strong legal positions concerning our rights to coverage. We regularly evaluate the collectability of the insurance receivables and record the amounts that we conclude are probable of collection. Our conclusions are based on our analysis of the terms of the underlying insurance policies, our experience in successfully recovering cumulative trauma product liability claims from our insurers under other policies, the financial ability of our insurance carriers to pay the claims, our understanding and interpretation of the relevant facts and applicable law and the advice of legal counsel, who believe that our insurers are required to provide coverage based on the terms of the policies.

Although the outcome of cumulative trauma product liability matters cannot be predicted with certainty and unfavorable resolutions could materially affect our results of operations on a quarter-to-quarter basis, based on information currently available and the amounts of insurance coverage available to us, we believe that the disposition of cumulative trauma product liability lawsuits that are pending against us will not have a materially adverse effect on our future results of operations, financial condition, or liquidity.

We are currently involved in insurance coverage litigations with a number of our insurance carriers. In 2009, we sued The North River Insurance Company (North River) in the United States District Court for the Western District of Pennsylvania, alleging that North River breached one of its insurance policies by failing to pay amounts owed to us and that it engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under the policy for product liability losses and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Motions for summary judgment on certain issues will be submitted to the court at the earliest possible date. A trial date has not yet been scheduled.

In 2010, North River sued us in the Court of Common Pleas of Allegheny County, Pennsylvania seeking a declaratory judgment concerning their responsibilities under three additional policies. We assert claims against North River for breaches of contract for failures to pay amounts owed to us. We also allege that North River engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under these policies for product liability losses and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Summary judgment on certain issues is pending with the court. A trial date has not yet been scheduled.

In July 2010, we filed a lawsuit in the Superior Court of the State of Delaware seeking declaratory and other relief from the majority of our excess insurance carriers concerning the future rights and obligations of MSA and our excess

insurance carriers under various insurance policies. The reason for this insurance coverage action is to secure a comprehensive resolution of our rights under the insurance policies issued by our insurers. The case is currently in discovery. We have resolved our claims against certain of our insurance carriers on some of their policies through negotiated settlements. When settlement is reached, we dismiss the settling carrier from this action in Delaware.

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During September 2013, we resolved coverage litigation with Associated International Insurance Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Associated International Insurance Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Allstate Insurance Company, through a negotiated settlement. As part of this settlement, both parties dismissed all claims against one another under the above-referenced coverage litigations in the Court of Common Pleas of Allegheny County, Pennsylvania and the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Columbia Casualty Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Columbia Casualty Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

CRITICAL ACCOUNTING POLICIES AND ESTIMATES

We prepare our consolidated financial statements in accordance with U.S. generally accepted accounting principles (GAAP). The preparation of these financial statements requires us to make estimates and judgments that affect the reported amounts of assets, liabilities, revenues and expenses and the related disclosures. We evaluate these estimates and judgments on an on-going basis based on historical experience and various assumptions that we believe to be reasonable under the circumstances. However, different amounts could be reported if we had used different assumptions and in light of different facts and circumstances. Actual amounts could differ from the estimates and judgments reflected in our financial statements. A summary of the Company's significant accounting policies is included in Note 1 to the Consolidated Financial Statements in Part II, Item 8 of this Form 10-K.

We believe that the following are the more critical judgments and estimates used in the preparation of our financial statements.

Accounting for contingencies. We accrue for contingencies when we believe that it is probable that a liability or loss has been incurred and the amount can be reasonably estimated. Contingencies relate to uncertainties that require our judgment both in assessing whether or not a liability or loss has been incurred and in estimating the amount of the probable loss. Significant contingencies affecting our financial statements include pending or threatened litigation, including product liability claims and product warranties.

Product liability. We face an inherent business risk of exposure to product liability claims arising from the alleged failure of our products to prevent the types of personal injury or death against which they are designed to protect. We categorize the product liability losses that we experience into two main categories; single incident and cumulative trauma. Single incident product liability claims are discrete incidents that are typically known to us when they occur and involve observable injuries and, therefore, more quantifiable damages. We maintain a reserve for single incident product liability claims, based on expected settlement costs for pending claims and an estimate of costs for unreported claims derived from experience, sales volumes and other relevant information. We evaluate our single incident product liability exposures on an ongoing basis and make adjustments to the reserve as new information becomes available.

Cumulative trauma product liability claims involve exposures to harmful substances that occurred many years ago and may have developed over long periods of time into diseases such as silicosis, asbestosis, or coal worker's pneumoconiosis. In our experience, until late in a lawsuit, we cannot reasonably determine whether it is probable that any given cumulative trauma lawsuit will ultimately result in a liability. This uncertainty is caused by many factors, including the following: cumulative trauma complaints generally do not provide information sufficient to determine if a loss is probable; cumulative trauma litigation is inherently unpredictable and information is often insufficient to determine if a lawsuit will develop into an actively litigated case; and even when a case is actively litigated, it is often difficult to determine if the lawsuit will be dismissed or otherwise resolved until late in the lawsuit. Moreover, even once it is probable that such a lawsuit will result in a loss, it is difficult to reasonably estimate the amount of actual loss that will be incurred. These amounts are highly variable and turn on a case-by-case analysis of the relevant facts, which are often not learned until late in the lawsuit. Therefore, we do not record cumulative trauma product liability losses when a lawsuit is filed, but rather, when we learn sufficient information to determine that it is probable that we

will incur a loss and the amount of loss can be reasonably estimated.

We cannot estimate any amount or range of possible losses related to resolving pending and future cumulative trauma product liability claims that we may face because of the factors described above. As new information about cumulative trauma product liability claims and future developments becomes available, we reassess our potential exposures.

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We record expenses for defense costs associated with open product liability lawsuits as incurred. With some common contract exclusions, we maintain insurance for single incident and pre-1986 cumulative trauma product liability claims and related defense costs. In the normal course of business, we make payments to settle product liability claims and for related defense costs. We record receivables for the amounts that are covered by insurance.

Due to uncertainty as to the ultimate outcome of pending and threatened claims, as well as the incidence of future claims, it is possible that future results could be materially affected by changes in our assumptions and estimates related to product liability matters, including our estimates of amounts receivable from insurance carriers. Our product liability expense averaged less than 1% of net sales during the three years ended December 31, 2013. Product warranties. We accrue for the estimated probable cost of product warranties at the time that sales are recognized. Our estimates are principally based on historical experience. We also accrue for our estimates of the probable costs of corrective action when significant product quality issues are identified. These estimates are principally based on our assumptions regarding the cost of corrective action and the probable number of units to be repaired or replaced. Our product warranty obligation is affected by product failure rates, material usage and service delivery costs incurred in correcting a product failure. Due to the uncertainty and potential volatility of these factors, it is possible that future results could be materially affected by changes in our assumptions or the effectiveness of our strategies related to these matters. Our product warranty expense averaged approximately 1% of net sales during the three years ended December 31, 2013.

Income taxes. We recognize deferred tax assets and liabilities using enacted tax rates to record the tax effect of temporary differences between the book and tax basis of recorded assets and liabilities. We record valuation allowances to reduce deferred tax assets to the amounts that we estimate are probable to be realized. When assessing the need for valuation allowances, we consider projected future taxable income and prudent and feasible tax planning strategies. Should a change in circumstances lead to a change in our judgments about the realizability of deferred tax assets in future years, we adjust the related valuation allowances in the period that the change in circumstances occurs. We had valuation allowances of \$4.9 million and \$4.0 million at December 31, 2013 and 2012, respectively. We record an estimated income tax liability based on our best judgment of the amounts likely to be paid in the various tax jurisdictions in which we operate. We record tax benefits related to uncertain tax positions taken or expected to be taken on a tax return when such benefits meet a more likely than not threshold. We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. The tax liabilities ultimately paid are dependent on a number of factors, including the resolution of tax audits, and may differ from the amounts recorded. Tax liabilities are adjusted through income when it becomes probable that the actual liability differs from the amount recorded.

No deferred U.S. income taxes have been provided on undistributed earnings of non-U.S. subsidiaries, which amounted to \$290.5 million as of December 31, 2013. These earnings are considered to be reinvested for an indefinite period of time. Because we currently do not have any plans to repatriate these funds, we cannot determine the impact of local taxes, withholding taxes and foreign tax credits associated with the future repatriation of such earnings and, therefore, cannot reasonably estimate the associated tax liability. In cases where we intend to repatriate a portion of the undistributed earnings of our foreign subsidiaries, we provide U.S. income taxes on such earnings. Pensions and other postretirement benefits. We sponsor certain pension and other postretirement benefit plans. Accounting for the net periodic benefit costs and credits for these plans requires us to estimate the cost of benefits to be provided well into the future and to attribute these costs over the expected work life of the employees participating in these plans. These estimates require our judgment about discount rates used to determine these obligations, expected returns on plan assets, rates of future compensation increases, rates of increase in future health care costs, participant withdrawal and mortality rates and participant retirement ages. Differences between our estimates and actual results may significantly affect the cost of our obligations under these plans and could cause net periodic benefit costs and credits to change materially from year-to-year. The discount rate assumptions used in determining projected benefit obligations are based on published long-term bond indices or a company-specific yield curve model. Goodwill. In the third quarter of each year, or more frequently if indicators of impairment exist or if a decision is made to sell a business, we evaluate goodwill for impairment. A significant amount of judgment is involved in

determining if an indicator of impairment has occurred. Such indicators may include a decline in expected cash flows, a significant adverse change in the business climate, unanticipated competition, slower growth rates, or negative developments in equity and credit markets, among others.

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All goodwill is assigned to reporting units. For goodwill impairment testing purposes, we consider our operating segments to be our reporting units. We test goodwill for impairment by either performing a qualitative evaluation or a two-step quantitative test. The qualitative evaluation is an assessment of factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value, including goodwill. Factors considered as part of the qualitative assessment include entity-specific industry, market and general economic conditions. In 2013 we performed a qualitative assessment for all of our reporting units. However, in the future, we may elect to bypass this qualitative evaluation for some or all of our reporting units and perform a two-step quantitative test. Quantitative testing involves comparing the estimated fair value of each reporting unit to its carrying value. We estimate reporting unit fair value using discounted cash flow (DCF) methodologies, as we believe forecasted cash flows are the best indicator of fair value. A number of significant assumptions and estimates are involved in the application of the DCF model, including sales volumes and prices, costs to produce, tax rates, capital spending, discount rates, and working capital changes. Cash flow forecasts are generally based on approved business unit operating plans for the early years and historical relationships in later years. The betas used in calculating the individual reporting units' weighted average cost of capital (WACC) rate are estimated for each reporting unit based on peer data.

In the event the estimated fair value of a reporting unit per the DCF model is less than the carrying value, additional analysis would be required. The additional analysis would compare the carrying amount of the reporting unit's goodwill with the implied fair value of that goodwill, which may involve the use of valuation experts. The implied fair value of goodwill is the excess of the fair value of the reporting unit over the fair value amounts assigned to all of the assets and liabilities of that unit as if the reporting unit had been acquired in a business combination and the fair value of the reporting unit represented the purchase price. If the carrying value of goodwill exceeds its implied fair value, an impairment loss equal to such excess would be recognized, which could significantly and adversely impact reported results of operations and shareholders' equity. For 2013, based on our qualitative valuation, none of our reporting units were close to an impairment.

RECENTLY ADOPTED AND RECENTLY ISSUED ACCOUNTING STANDARDS

In July, 2013, the FASB issued ASU 2013-11, Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists. This ASU requires an unrecognized tax benefit, or a portion of an unrecognized tax benefit, to be presented in the financial statements as a reduction to a deferred tax asset for a net operating loss carryforward, a similar tax loss, or a tax credit carryforward. The ASU will be effective beginning in 2014. The adoption of this ASU will not have a material effect on our consolidated statements.

In March 2013, FASB issued ASU 2013-05, Parent's Accounting for the Cumulative Translation Adjustment upon Derecognition of Certain Subsidiaries or Groups of Assets within a Foreign Entity or of an Investment in a Foreign Entity. This ASU 2013-05 addresses the accounting for the cumulative translation adjustment when a parent either sells a part or all of its investment in a foreign entity or no longer holds a controlling financial interest in a subsidiary or group of assets that is a business within a foreign entity. The guidance outlines the events when cumulative translation adjustments should be released into net income. This ASU will be effective beginning in 2014. The adoption of this ASU may have a material effect on our consolidated financial statements, in the event that we were to divest of a foreign affiliate.

In February 2013, the FASB issued ASU 2013-02, Comprehensive Income-Reporting of Amounts Reclassified Out of Accumulated Other Comprehensive Income. This ASU requires additional information about the amounts reclassified out of accumulated other comprehensive income by component. The adoption of this ASU on January 1, 2013 did not have a material effect on our consolidated financial statements.

Item 7A. Quantitative and Qualitative Disclosures About Market Risk

Market risk represents the risk of adverse changes in the value of a financial instrument caused by changes in currency exchange rates, interest rates and equity prices. We are exposed to market risks related to currency exchange rates and interest rates.

Currency exchange rates. We are subject to the effects of fluctuations in currency exchange rates on various transactions and on the translation of the reported financial position and operating results of our non-U.S. companies from local currencies to U.S. dollars. A hypothetical 10% strengthening or weakening of the U.S. dollar would

increase or decrease our reported sales and net income for the year ended December 31, 2013 by approximately \$57.5 million and \$4.6 million, respectively.

When appropriate, we may attempt to limit our transactional exposure to changes in currency exchange rates through contracts or other actions intended to reduce existing exposures by creating offsetting currency exposures. At December 31, 2013, we had open foreign currency forward contracts with a U.S. dollar notional value of \$54.4 million. A hypothetical 10% increase in December 31, 2013 forward exchange rates would result in a \$5.4 million increase in the fair value of these contracts.

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Interest rates. We are exposed to changes in interest rates primarily as a result of borrowing and investing activities used to maintain liquidity and fund business operations. Because of the relatively short maturities of temporary investments and the variable rate nature of our revolving credit facility and industrial development debt, these financial instruments are reported at carrying values which approximate fair values.

We have \$160.0 million of fixed rate debt which matures at various dates through 2021. The incremental increase in the fair value of fixed rate long-term debt resulting from a hypothetical 10% decrease in interest rates would be approximately \$2.6 million. However, our sensitivity to interest rate declines and the corresponding increase in the fair value of our debt portfolio would unfavorably affect earnings and cash flows only to the extent that we elected to repurchase or retire all or a portion of our fixed rate debt portfolio at prices above carrying values.

Actuarial assumptions. The most significant actuarial assumptions affecting our net periodic pension credit and pension obligations are discount rates, expected returns on plan assets and plan asset valuations. Discount rates and plan asset valuations are point-in-time measures. Expected returns on plan assets are based on our historical returns by asset class.

The following table summarizes the impact of changes in significant actuarial assumptions on our December 31, 2013 actuarial valuations.

	Impact of C	hanges in Actua	rial Assumption	ns			
	Change in D	iscount	Change in E	Expected	Change in Mar	rket Value of	
	Rate		Return		Assets		
(In thousands)	1%	(1)%	1%	(1)%	5%	(5)%	
(Decrease) increase in net benefit cost	\$(5,610) \$6,742	\$(3,815) \$3,813	\$(898)	\$894	
(Decrease) increase in projected benefit obligation	(55,802) 64,198	_	_	_	_	
Increase (decrease) in funded status	55,802	(64,198) —	_	21,728	(21,728)
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Item 8. Financial Statements and Supplementary Data

Management's Reports to Shareholders

Management's Report on Responsibility for Financial Reporting

Management of Mine Safety Appliances Company (the Company) is responsible for the preparation of the financial statements included in this annual report. The financial statements were prepared in accordance with accounting principles generally accepted in the United States of America and include amounts that are based on the best estimates and judgments of management. The other financial information contained in this annual report is consistent with the financial statements.

Management's Report on Internal Control Over Financial Reporting

Management is responsible for establishing and maintaining adequate internal control over financial reporting. The Company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles.

The Company's internal control over financial reporting includes policies and procedures that (1) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect transactions and dispositions of assets; (2) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures are being made only in accordance with authorizations of management and the directors of the Company; and (3) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use or disposition of the Company's assets that could have a material effect on our financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the Company's internal control over financial reporting as of December 31, 2013. In making this assessment, management used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in Internal Control-Integrated Framework (1992). Based on our assessment and those criteria, management has concluded that the Company maintained effective internal control over financial reporting as of December 31, 2013.

The effectiveness of the Company's internal control over financial reporting as of December 31, 2013 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm, as stated in their report, which is included herein.

/s/ WILLIAM M. LAMBERT William M. Lambert Chief Executive Officer

/s/ STACY P. McMAHAN Stacy P. McMahan Senior Vice President of Finance and Chief Financial Officer February 24, 2014

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Report of Independent Registered Public Accounting Firm

To the Shareholders and Board of Directors of Mine Safety Appliances Company:

In our opinion, the consolidated balance sheets and related consolidated statements of income, comprehensive income, cash flows and changes in retained earnings and accumulated other comprehensive loss present fairly, in all material respects, the financial position of Mine Safety Appliances Company and its subsidiaries (the "Company") at December 31, 2013 and 2012, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2013 in conformity with accounting principles generally accepted in the United States of America. In addition, in our opinion, the financial statement schedule listed in the index appearing under Item 15 presents fairly, in all material respects, the information set forth therein when read in conjunction with the related consolidated financial statements. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2013, based on criteria established in Internal Control -Integrated Framework (1992) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company's management is responsible for these financial statements and financial statement schedule, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in Management's Report on Internal Control over Financial Reporting appearing under Item 8. Our responsibility is to express opinions on these financial statements, on the financial statement schedule, and on the Company's internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers LLP PricewaterhouseCoopers LLP Pittsburgh, Pennsylvania February 24, 2014

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MINE SAFETY APPLIANCES COMPANY CONSOLIDATED STATEMENT OF INCOME

	Year ended December 31,			
(In thousands, except per share amounts)	2013	2012	2011	
Net sales	\$1,112,058	\$1,110,443	\$1,112,814	
Other (loss) income, net (Note 14)	(175)	10,876	5,458	
	1,111,883	1,121,319	1,118,272	
Costs and expenses				
Cost of products sold	615,213	620,895	654,447	
Selling, general and administrative	309,206	312,858	297,779	
Research and development	45,858	40,900	39,245	
Restructuring and other charges (Note 2)	5,344	2,787	8,559	
Interest expense	10,677	11,344	14,116	
Currency exchange losses, net	5,452	3,192	3,051	
	991,750	991,976	1,017,197	
Income from continuing operations before income taxes	120,133	129,343	101,075	
Provision for income taxes (Note 9)	35,145	41,401	33,807	
Income from continuing operations	84,988	87,942	67,268	
Income from discontinued operations (Note 19)	3,061	3,819	2,777	
Net income	88,049	91,761	70,045	
Net loss (income) attributable to noncontrolling interests	198	(1,124) (193	
Net income attributable to Mine Safety Appliances Company	88,247	90,637	69,852	
Amounts attributable to Mine Safety Appliances Company				
common shareholders:				
Income from continuing operations	85,858	87,557	67,518	
Income from discontinued operations (Note 19)	2,389	3,080	2,334	
Net income	88,247	90,637	69,852	
Earnings per share attributable to Mine Safety Appliances				
Company common shareholders (Note 8)				
Basic				
Income from continuing operations	\$2.31	\$2.37	\$1.85	
Income from discontinued operations (Note 19)	\$0.06	\$0.08	\$0.06	
Net income	\$2.37	\$2.45	\$1.91	
Diluted				
Income from continuing operations	\$2.28	\$2.34	\$1.81	
Income from discontinued operations (Note 19)	\$0.06	\$0.08	\$0.06	
Net income	\$2.34	\$2.42	\$1.87	

The accompanying notes are an integral part of the consolidated financial statements.

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MINE SAFETY APPLIANCES COMPANY CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

	Year ended December 31,			
(In thousands)	2013	2012	2011	
Net income	\$88,049	\$91,761	\$70,045	
Foreign currency translation adjustments	(7,281) 3,846	(15,980)
Pension and post-retirement plan adjustments (Note 13)	54,951	(28,018) (44,218)
Comprehensive income	135,719	67,589	9,847	
Comprehensive loss (income) attributable to noncontrolling interests	1,331	(840) 1,137	
Comprehensive income attributable to Mine Safety Appliances	137,050	66,749	10,984	

The accompanying notes are an integral part of the consolidated financial statements.

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MINE SAFETY APPLIANCES COMPANY CONSOLIDATED BALANCE SHEET

	December 31,		
(In thousands, except share amounts)	2013	2012	
Assets			
Cash and cash equivalents	\$96,265	\$82,718	
Trade receivables, less allowance for doubtful accounts of \$7,306 and \$7,402	200,364	191,289	
Inventories (Note 3)	136,837	136,300	
Deferred tax assets (Note 9)	22,458	17,727	
Income taxes receivable	9,181	6,342	
Prepaid expenses and other current assets (Note 16)	35,861	29,172	
Total current assets	500,966	463,548	
Property, plant, and equipment (Note 4)	152,755	147,465	
Prepaid pension cost (Note 13)	121,054	42,818	
Deferred tax assets (Note 9)	14,996	17,018	
Goodwill (Note 12)	260,134	258,400	
Intangible assets (Note 12)	35,029	38,648	
Other noncurrent assets	149,336	143,849	
Total assets	1,234,270	1,111,746	
Liabilities			
Notes payable and current portion of long-term debt (Note 11)	\$7,500	\$6,823	
Accounts payable	66,902	59,519	
Employees' compensation	38,164	41,602	
Insurance and product liability	14,251	15,025	
Taxes on income (Note 9)	3,662	4,389	
Other current liabilities	61,085	61,442	
Total current liabilities	191,564	188,800	
Long-term debt (Note 11)	260,667	272,333	
Pensions and other employee benefits (Note 13)	152,084	151,536	
Deferred tax liabilities (Note 9)	49,621	17,249	
Other noncurrent liabilities	7,987	11,124	
Total liabilities	661,923	641,042	
Commitments and Contingencies (Note 18)			
Shareholders' Equity			
Preferred stock, 4 ½% cumulative, \$50 par value (Note 6)	3,569	3,569	
Common stock, no par value (Note 6)	132,055	112,135	
Stock compensation trust (Note 10)	(1,585	(3,891)
Treasury shares, at cost (Note 6)	(281,524	(269,739)
Accumulated other comprehensive loss	(78,269	(127,072)
Retained earnings	792,206	747,953	
Total shareholders' equity	566,452	462,955	
Noncontrolling interests	5,895	7,749	
Total shareholders' equity	572,347	470,704	
Total liabilities and shareholders' equity	1,234,270	1,111,746	
The accompanying notes are an integral part of the consolidated financial statement	S.		

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MINE SAFETY APPLIANCES COMPANY CONSOLIDATED STATEMENT OF CASH FLOWS

	Year ended Dece	mber 31,	
(In thousands)	2013	2012	2011
Operating Activities			
Net income	\$88,049	\$91,761	\$70,045
Depreciation and amortization	30,764	31,702	32,866
Pensions (Note 13)	12,268	3,673	(4,967)
Net gain from investing activities—asset disposals (Note 14)		(8,396)	(3,328)
Stock-based compensation (Note 10)	10,337	10,010	7,732
Deferred income tax provision (Note 9)	(3,234	213	8,800
Other noncurrent assets and liabilities			(24,130)
Currency exchange losses, net	5,127	3,151	2,511
Excess tax benefit related to stock plans (Note 6)		(2,799)	(632)
Other, net	4,386	1,103	(1,335
Operating cash flow before changes in certain working capita	1		
items	126,853	116,314	87,562
(Increase) decrease in trade receivables	(13,171	2,346	(217)
(Increase) decrease in inventories (Note 3)		2,677	(1,230)
Increase (decrease) in accounts payable and accrued liabilitie		17,776	(398)
(Increase) decrease in income taxes receivable, prepaid			
expenses and other current assets	(7,337	11,363	(459)
(Increase) decrease in certain working capital items	(16,072	34,162	(2,304)
Cash Flow From Operating Activities	110,781	150,476	85,258
Investing Activities	,	,	,
Capital expenditures	(36,517	(32,209)	(30,390)
Property disposals	1,360	20,193	18,687
Other investing	_	(5,269)	_
Cash Flow From Investing Activities	(35,157	(17,285)	(11,703)
Financing Activities	(,,	, (=1,===)	(,,,,
Proceeds from (payments on) short-term debt, net (Note 11)	662	(128)	137
Payments on long-term debt (Note 11)			(199,000)
Proceeds from long-term debt (Note 11)	295,100	183,500	164,000
Restricted cash	(2,790	· —	_
Cash dividends paid	(43,994	(50,990)	(37,741)
Distributions to noncontrolling interests	(556) -	-
Company stock purchases (Note 6)	·	(3,508)	(624)
Exercise of stock options (Note 6)	9,643	4,306	1,316
Excess tax benefit related to stock plans (Note 6)	2,246	2,799	632
Cash Flow From Financing Activities	(58,240	·	(71,280)
Effect of exchange rate changes on cash and cash equivalents		110	(2,097)
Increase in cash and cash equivalents	13,547	22,780	178
Beginning cash and cash equivalents	82,718	59,938	59,760
Ending cash and cash equivalents	96,265	82,718	59,938
Supplemental cash flow information:	J 0,203	02,710	27,720
Interest payments	\$10,884	\$10,772	\$13,969
Income tax payments	36,242	29,807	21,739
The accompanying notes are an integral part of the consolidate		·	
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MINE SAFETY APPLIANCES COMPANY CONSOLIDATED STATEMENT OF CHANGES IN RETAINED EARNINGS AND ACCUMULATED OTHER COMPREHENSIVE LOSS

receive Little of their contribution ve loss				
(In thousands)		Retained Earnings	Accumulated Other Comprehensive (Loss)	;
Balances January 1, 2011		\$676,195	\$(44,316)
Net income		70,045		
Foreign currency translation adjustments			(15,980)
Pension and post-retirement plan adjustments, net of tax of	\$28,636		(44,218)
(Income) loss attributable to noncontrolling interests		(193) 1,330	
Common dividends		(37,699) —	
Preferred dividends		(42) —	
Balances December 31, 2011		708,306	(103,184)
Net income		91,761	<u> </u>	
Foreign currency translation adjustments		_	3,846	
Pension and post-retirement plan adjustments, net of tax of	\$11,364	_	(28,018)
(Income) loss attributable to noncontrolling interests		(1,124) 284	
Common dividends		(50,948) —	
Preferred dividends		(42) —	
Balances December 31, 2012		747,953	(127,072)
Net income		88,049	_	
Foreign currency translation adjustments			(7,281)
Pension and post-retirement plan adjustments, net of tax of	\$30,849		54,951	
Loss attributable to noncontrolling interests		198	1,133	
Common dividends		(43,952) —	
Preferred dividends		(42) —	
Balances December 31, 2013		792,206	(78,269)
Components of accumulated other comprehensive loss are a	s follows:			
	December 31,			
(In thousands)	2013	2012	2011	
Cumulative translation adjustments	\$(1,189) \$4,959	\$829	
Pension and post-retirement plan adjustments (Note 13)	(77,080) (132,031) (104,013)
Accumulated other comprehensive loss	(78,269) (127,072) (103,184)

The accompanying notes are an integral part of the consolidated financial statements.

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MINE SAFETY APPLIANCES COMPANY NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

Note 1—Significant Accounting Policies

Basis of Presentation—The Consolidated Financial Statements of Mine Safety Appliances Company are prepared in conformity with accounting principles generally accepted in the United States of America (GAAP) and require management to make certain judgments, estimates, and assumptions. These may affect the reported amounts of assets and liabilities and the disclosure of contingent assets and liabilities at the date of the financial statements. They also may affect the reported amounts of revenues and expenses during the reporting period. Actual results could differ from those estimates upon subsequent resolution of identified matters. Certain amounts in previously issued financial statements were reclassified to conform to the 2013 presentation. See Note 19 for further information regarding Discontinued Operations.

Principles of Consolidation—The consolidated financial statements include the accounts of the company and all subsidiaries. Intercompany accounts and transactions are eliminated.

Noncontrolling Interests—Noncontrolling interests reflect noncontrolling shareholders' investments in certain consolidated subsidiaries and their proportionate share of the income and accumulated other comprehensive income of those subsidiaries.

Currency Translation—The functional currency of all significant non-U.S. subsidiaries is the local currency. Assets and liabilities of these operations are translated at year-end exchange rates. Income statement accounts are translated using the average exchange rates for the reporting period. Translation adjustments for these companies are reported as a component of shareholders' equity and are not included in income. Foreign currency transaction gains and losses are included in net income for the reporting period.

Cash Equivalents—Cash equivalents include temporary deposits with financial institutions and highly liquid investments with original maturities of 90 days or less.

Restricted Cash—Restricted cash, which is designated for use other than current operations is included in the Prepaid Expenses and Other Current Assets in the Consolidated Balance Sheet. Restricted cash balances were \$2.8 million at December 31, 2013 and were used to support letter of credit balances. The Company did not have restricted cash at December 31, 2012 or 2011.

Inventories—Inventories are stated at the lower of cost or market. Most U.S. inventories are valued on the last-in, first-out (LIFO) cost method. Other inventories are valued on the average cost method or at standard costs which approximate actual costs.

Property and Depreciation—Property is recorded at cost. Depreciation is computed using straight-line and accelerated methods over the estimated useful lives of the assets, generally as follows: buildings 20 to 40 years and machinery and equipment 3 to 10 years. Expenditures for significant renewals and improvements are capitalized. Ordinary repairs and maintenance are expensed as incurred. Gains or losses on property dispositions are included in other income and the cost and related depreciation are removed from the accounts. Depreciation expense for the years ended December 31, 2013, 2012 and 2011 was \$27.1 million, \$27.5 million and \$27.1 million, respectively. Properties, plants, and equipment are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of such assets may not be recoverable. Recoverability of assets is determined by comparing the estimated undiscounted net cash flows of the operations related to the assets to their carrying amount. An impairment loss would be recognized when the carrying amount of the assets exceeds the estimated undiscounted net cash flows. The amount of the impairment loss to be recorded is calculated as the excess of the carrying value of the assets over their fair value, with fair value determined using the best information available, which generally is a discounted cash flow model

Goodwill and Other Intangible Assets—Intangible assets are amortized on a straight-line basis over their useful lives. Intangible assets are reviewed for possible impairment whenever circumstances change such that the recorded value of the asset may not be recoverable. Goodwill is not amortized, but is subject to impairment write-down tests. We test the goodwill of each of our reporting units for impairment at least annually. The annual goodwill impairment tests are performed as of September 30 each year. All goodwill is assigned to reporting units. For this purpose, we consider our operating segments to be our reporting units. We test goodwill for impairment by either performing a

qualitative evaluation or a two-step quantitative test. The qualitative evaluation is an assessment of various factors to determine whether it is more likely than not that the fair value of a reporting unit is less than its carrying value, including goodwill.

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Factors considered as part of the qualitative assessment include entity-specific industry, market and general economic conditions. We may elect to bypass the qualitative assessment for some or all of our reporting units and perform a two-step quantitative test. Quantitative testing involves estimating a reporting unit's fair value. We estimate reporting unit fair value using discounted cash flow methodologies. There has been no impairment of our goodwill as of December 31, 2013.

Revenue Recognition—Revenue from the sale of products is recognized when title, ownership and the risk of loss have transferred to the customer, which generally occurs either when product is shipped to the customer or, in the case of most U.S. distributor customers, when product is delivered to the customer's delivery site. We establish our shipping terms according to local practice and market characteristics. We do not ship product unless we have an order or other documentation authorizing shipment to our customers. We make appropriate provisions for uncollectible accounts receivable and product returns, both of which have historically been insignificant in relation to our net sales. Certain distributor customers receive price rebates based on their level of purchases and other performance criteria that are documented in established distributor programs. These rebates are accrued as a reduction of net sales as they are earned by the customer.

Shipping and Handling—Shipping and handling expenses for products sold to customers are charged to cost of products sold as incurred. Amounts billed to customers for shipping and handling are included in net sales.

Product Warranties—Estimated expenses related to product warranties and additional service actions are charged to cost of products sold in the period in which the related revenue is recognized or when significant product quality issues are identified.

Research and Development—Research and development costs are expensed as incurred.

Income Taxes—Deferred income taxes are provided for temporary differences between financial and tax reporting. Deferred tax assets and liabilities are measured using enacted tax rates in effect for the year in which those temporary differences are expected to be recovered or settled. If it is more likely than not that some portion or all of a deferred tax asset will not be realized, a valuation allowance is recognized. We record tax benefits related to uncertain tax positions taken or expected to be taken on a tax return when such benefits meet a more likely than not threshold. We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. No provision is made for possible U.S. taxes on the undistributed earnings of foreign subsidiaries that are considered to be reinvested indefinitely.

Stock-Based Compensation—We account for stock-based compensation in accordance with the FASB guidance on share-based payment, which requires that we recognize compensation expense for employee and non-employee director stock-based compensation based on the grant date fair value. Except for retirement-eligible participants, for whom there is no requisite service period, this expense is recognized ratably over the requisite service periods following the date of grant. For retirement-eligible participants, this expense is recognized at the grant date. Derivative Instruments—We may use derivative instruments to minimize the effects of changes in currency exchange rates. We do not enter into derivative transactions for speculative purposes and do not hold derivative instruments for trading purposes. Changes in the fair value of derivative instruments designated as fair value hedges are recorded in the balance sheet as adjustments to the underlying hedged asset or liability. Changes in the fair value of derivative instruments that do not qualify for hedge accounting treatment are recognized in the income statement as currency exchange (income) loss in the current period.

Commitments and Contingencies—For asserted claims and assessments, liabilities are recorded when an unfavorable outcome of a matter is deemed to be probable and the loss is reasonably estimable. Management determines the likelihood of an unfavorable outcome based on many factors such as the nature of the matter, available defenses and case strategy, progress of the matter, views and opinions of legal counsel and other advisors, applicability and success of appeals processes, and the outcome of similar historical matters, among others. Once an unfavorable outcome is deemed probable, management weighs the probability of estimated losses, and the most reasonable loss estimate is recorded. If an unfavorable outcome of a matter is deemed to be reasonably possible, then the matter is disclosed and no liability is recorded. With respect to unasserted claims or assessments, management must first determine that the probability that an assertion will be made is likely, then, a determination as to the likelihood of an unfavorable outcome and the ability to reasonably estimate the potential loss is made. Legal matters are reviewed on a continuous

basis to determine if there has been a change in management's judgment regarding the likelihood of an unfavorable outcome or the estimate of a potential loss.

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Discontinued Operations and Assets Held For Sale—For those businesses where management has committed to a plan to divest, each business is valued at the lower of its carrying amount or estimated fair value less cost to sell. If the carrying amount of the business exceeds its estimated fair value, an impairment loss is recognized. Fair value is estimated using accepted valuation techniques such as a DCF model, valuations performed by third parties, earnings multiples, or indicative bids, when available. A number of significant estimates and assumptions are involved in the application of these techniques, including the forecasting of markets and market share, sales volumes and prices, costs and expenses, and multiple other factors. Management considers historical experience and all available information at the time the estimates are made; however, the fair value that is ultimately realized upon the divestiture of a business may differ from the estimated fair value reflected in the Consolidated Financial Statements. Depreciation and amortization expense is not recorded on assets of a business to be divested once they are classified as held for sale. For businesses classified as discontinued operations, the results of operations are reclassified from their historical presentation to discontinued operations on the Consolidated Statement of Income, for all periods presented. The gains or losses associated with these divested businesses are recorded in discontinued operations on the Consolidated Statement of Income. Additionally, segment information does not include the operating results of businesses classified as discontinued operations for all periods presented. Management does not expect any continuing involvement with these businesses following their divestiture, and these businesses are expected to be disposed of within one year. Recently Adopted and Recently Issued Accounting Standards—In July, 2013, the FASB issued ASU 2013-11, Presentation of an Unrecognized Tax Benefit When a Net Operating Loss Carryforward, a Similar Tax Loss, or a Tax Credit Carryforward Exists. This ASU requires an unrecognized tax benefit, or a portion of an unrecognized tax benefit, to be presented in the financial statements as a reduction to a deferred tax asset for a net operating loss carryforward, a similar tax loss, or a tax credit carryforward. The ASU will be effective beginning in 2014. The adoption of this ASU will not have a material effect on our consolidated statements.

In March 2013, FASB issued ASU 2013-05, Parent's Accounting for the Cumulative Translation Adjustment upon Derecognition of Certain Subsidiaries or Groups of Assets within a Foreign Entity or of an Investment in a Foreign Entity. This ASU 2013-05 addresses the accounting for the cumulative translation adjustment when a parent either sells a part or all of its investment in a foreign entity or no longer holds a controlling financial interest in a subsidiary or group of assets that is a business within a foreign entity. The guidance outlines the events when cumulative translation adjustments should be released into net income. This ASU will be effective beginning in 2014. The adoption of this ASU may have a material effect on our consolidated financial statements, in the event that we were to divest of a foreign affiliate.

In February 2013, the FASB issued ASU 2013-02, Comprehensive Income-Reporting of Amounts Reclassified Out of Accumulated Other Comprehensive Income. This ASU requires additional information about the amounts reclassified out of accumulated other comprehensive income by component. The adoption of this ASU on January 1, 2013 did not have a material effect on our consolidated financial statements.

Note 2—Restructuring and Other Charges

During the years ended December 31, 2013, 2012 and 2011, we recorded restructuring charges of \$5.3 million, \$2.8 million and \$8.6 million, respectively. These charges were primarily related to reorganization activities. For the year ended December 31, 2013, European segment charges of \$3.0 million were primarily related to staff reductions in Germany and the Netherlands. \$1.7 million of the European restructuring charges are accrued at December 31, 2013 and are expected to be paid in the next year. International segment charges of \$2.3 million for the year ended December 31, 2013 were primarily related to staff reductions in Australia and South Africa and were paid out in cash in 2013.

For the year ended December 31, 2012, North American, European and International segment charges of \$1.5 million, \$1.1 million and \$0.2 million, respectively, were primarily related to severance costs associated with staff reductions. At December 31, 2012, the North American, European and International segments each had accrued restructuring charges of \$0.3 million, \$2.5 million and \$0.2 million, respectively.

For the year ended December 31, 2011, European segment charges of \$5.8 million related primarily to staff reductions and the transfer of certain production activities to China. \$4.3 million of the European restructuring charges were accrued at December 31, 2011. North American segment charges for the year ended December 31, 2011 of \$1.7

million included costs associated with the relocation of certain administrative and production activities. International segment charges for the year ended December 31, 2011 of \$1.1 million were primarily related to severance costs associated with the relocation of our Wuxi, China operations to Suzhou, China.

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Note 3—Inventories

	December 31,	
(In thousands)	2013	2012
Finished products	\$74,466	\$72,658
Work in process	8,108	13,473
Raw materials and supplies	54,263	50,169
Total inventories	136,837	136,300
Excess of FIFO costs over LIFO costs	44,670	46,519
Total FIFO inventories	181,507	182,819

Inventories stated on the LIFO basis represent 15% and 16% of total inventories at December 31, 2013 and 2012, respectively.

Reductions in certain inventory quantities during the years ended December 31, 2013 and 2012 resulted in liquidations of LIFO inventories carried at lower costs prevailing in prior years. The effect of LIFO liquidations during 2013 reduced cost of sales by \$2.1 million and increased net income by \$1.4 million. The effect of LIFO liquidations during 2012 reduced cost of sales by \$0.8 million and increased net income by \$0.5 million.

Note 4—Property, Plant, and Equipment

	December 3	1,	
(In thousands)	2013	2012	
Land	\$3,835	\$5,267	
Buildings	110,534	107,082	
Machinery and equipment	349,667	334,951	
Construction in progress	16,364	10,444	
Total	480,400	457,744	
Less accumulated depreciation	(327,645) (310,279)
Net property	152,755	147,465	
Note 5 Declarifications Out of Assumulated Other Communication I ass			

Note 5—Reclassifications Out of Accumulated Other Comprehensive Loss

Year endec			
2013	2012	2011	
\$(322) \$(353) \$(351)
13,875	6,764	1,503	
13,553	6,411	1,152	
5,066	2,469	411	
8,487	3,942	741	
	2013 \$(322 13,875 13,553 5,066	\$(322) \$(353 13,875 6,764 13,553 6,411 5,066 2,469	2013 2012 2011 \$(322)) \$(353)) \$(351) 13,875 6,764 1,503 13,553 6,411 1,152 5,066 2,469 411

Note 6—Capital Stock

Preferred Stock - The Company has authorized 100,000 shares of \$50 par value 4.5% cumulative preferred nonvoting stock which is callable at \$52.50. There are 71,373 shares issued and 52,878 shares held in treasury at December 31, 2013. There were no treasury purchases of preferred stock during the three years ended December 31, 2013. The Company has also authorized 1,000,000 shares of \$10 par value second cumulative preferred voting stock. No shares have been issued as of December 31, 2013.

Common Stock - The Company has authorized 180,000,000 shares of no par value common stock. There were 37,202,099 and 37,007,799 shares outstanding at December 31, 2013 and December 31, 2012, respectively. Common stock activity is summarized as follows:

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	Shares			Dollars					
		Stock		Common	Stock	Treasury			
(Dollars in thousands)	Issued	Compensation	Treasury	Stock	Compensation	Cost			
		Trust			Trust				
Balances January 1, 2011	62,081,391		(24,200,951)			\$(263,855))		
Restricted stock awards		103,815	_	(542)	542				
Restricted stock expense	_	_		4,376	_				
Restricted stock forfeitures			(7,469)	(6)	_				
Stock options exercised		94,115		825	491				
Stock option expense				2,343	_				
Performance stock expense				1,019	_				
Tax benefit related to stock plan	s —	_	_	632	_	_			
Treasury shares purchased		_	(17,597)	_	_	(624)		
Balances December 31, 2011	62,081,391	(1,162,784)	(24,226,017)	97,276	(6,070)	(264,479)		
Restricted stock awards		136,295		(711)	711				
Restricted stock expense				4,891	_				
Restricted stock forfeitures			(10,815)	(147)	_				
Stock options exercised	_	223,022		3,141	1,165				
Stock option expense	_	_		2,435	_				
Performance stock issued	_	58,037		(303)	303				
Performance stock expense	_	_		2,831	_				
Tax benefit related to stock plan	ıs —			2,799					
Treasury shares purchased			(91,330)			(3,508)		
Other, net	_	_		(77)	_				
Balances December 31, 2012	62,081,391	(745,430)	(24,328,162)	112,135	(3,891)	(267,987)		
Restricted stock awards		96,686		(505)	505				
Restricted stock expense	_	_		4,244	_				
Restricted stock forfeitures	_	_	(7,365)	(115)	_				
Stock options exercised	_	277,687		8,194	1,449				
Stock option expense	_	_		2,825	_				
Performance stock issued	_	67,389		(352)	352				
Performance stock expense				3,383					
Tax benefit related to stock plan	ıs —			2,246					
Treasury shares purchased	_		(240,097)	_	_	(11,785)		
Balances December 31, 2013	62,081,391	(303,668)	(24,575,624)	132,055	(1,585)	(279,772)		
TEL ME C C 4 A 11 C	G. 1	о т		. 1 1 .	.1 1 6	1	c.,		

The Mine Safety Appliances Company Stock Compensation Trust was established to provide shares for certain benefit plans, including the management and non-employee directors' equity incentive plans. Shares held by the Stock Compensation Trust, and the corresponding cost of those shares, are reported as a reduction of common shares issued. Differences between the cost of the shares held by the Stock Compensation Trust and the market value of shares released for stock-related benefits are reflected in common stock issued.

In November 2005, the Board of Directors authorized the purchase of up to \$100 million of MSA common stock either through private transactions or open market transactions. The share purchase program has no expiration date. The maximum shares that may yet be purchased is calculated based on the dollars remaining under the program and the respective month-end closing share price. We do not have any other share purchase programs. The above treasury share purchases are related to stock compensation transactions.

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Note 7—Segment Information

We are organized into eleven geographic operating segments based on management responsibilities. The operating segments have been aggregated (based on economic similarities, the nature of their products, end-user markets and methods of distribution) into three reportable segments: North America, Europe and International.

Reportable segment information is presented in the following table:

(In thousands)	North		Europe		International		Reconciling		Consolidated	l
2013	America		•				Items		Totals	
Sales to external customers	\$559,193		\$289,760		\$263,105		\$ —		\$1,112,058	
Intercompany sales	122,013		98,491		21,075		(241,579)		
Net income:	122,013		70,171		21,073		(241,37)	,		
Continuing operations	70,577		18,398		20,373		(23,490)	85,858	
Discontinued operations			—		2,389		(23,470	,	2,389	
Total assets	836,418		394,463		222,427		(219,038)	1,234,270	
Interest income	243		90		809			,	1,142	
Interest expense	52		175		2		10,448		10,677	
Noncash items:	<i>-</i>		1,0		_		10,		10,077	
Depreciation and amortization	19,732		5,357		5,675				30,764	
Pension expense	(4,765)	(6,328)	(1,268)	_		(12,361)
Income tax provision	35,602		6,133		6,182		(12,772)	35,145	
Capital expenditures	17,963		11,833		6,721				36,517	
Net Property	85,087		33,162		34,505		1		152,755	
2012	•		,		•				,	
Sales to external customers	551,927		289,549		268,967				1,110,443	
Intercompany sales	114,354		98,096		18,641		(231,091)	_	
Net income:								-		
Continuing operations	64,270		20,424		19,238		(16,375)	87,557	
Discontinued operations	_				3,080				3,080	
Total assets	726,476		352,601		205,959		(173,290)	1,111,746	
Interest income	364		147		886		14		1,411	
Interest expense	106		350		78		10,810		11,344	
Noncash items:										
Depreciation and amortization	21,446		5,354		4,902		_		31,702	
Pension income (expense)	2,138		(4,700)	(1,111)			(3,673)
Income tax provision	39,125		7,362		8,085		(13,171)	41,401	
Capital expenditures	20,129		5,106		6,974				32,209	
Net Property	85,923		25,460		36,081		1		147,465	
2011										
Sales to external customers	561,140		286,753		264,921		_		1,112,814	
Intercompany sales	100,094		116,471		18,305		(234,870)	_	
Net income:										
Continuing operations	53,674		11,689		24,818		(22,663)	0.,010	
Discontinued operations					2,334				2,334	
Total assets	742,707		340,305		194,127		(162,087)	1,115,052	
Interest income	78		192		1,215		324		1,809	
Interest expense	29		253		137		13,697		14,116	
Noncash items:	22.05.5		6.000		4 704				22.055	
Depreciation and amortization	22,036		6,239		4,591		_		32,866	
Pension income (expense)	10,800		(5,638)	(195)	_		4,967	

Income tax provision	31,821	6,187	5,726	(9,927) 33,807
Capital expenditures	20,035	4,384	5,971	_	30,390
Net property	85,643	25,273	34,846	1	145,763

Reconciling items consist primarily of intercompany eliminations and items reported at the corporate level.

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Total

Geographic information on sales to external customers, b	ased on country of o	rigin:	
(In thousands)	2013	2012	2011
United States	\$528,178	\$527,550	\$538,257
Germany	71,139	74,557	75,536
Other	512,741	508,336	499,021
Total	1,112,058	1,110,443	1,112,814
Geographic information on net property, based on country	y of origin:		
(In thousands)	2013	2012	2011
United States	\$82,274	\$82,820	\$82,318
Germany	16,882	8,781	9,303
China	16,010	14,780	14,817
Other	37,589	41,084	39,325

Sales are allocated to each country based on the destination of the end-customer. Core product sales represented 73% of total sales for the year ended December 31, 2013, up from 70% for the year ended December 31, 2012. The percentage of total sales by core product group were as follows: fixed gas & flame detection instruments, 22%; breathing apparatus, 20%; portable gas detection instruments, 14%; industrial head protection, 13%; and fall protection at 4% of total sales. The remaining 27% of total sales represented non-core product sales for the year ended December 31, 2013, an improvement from 30% of total sales for the year ended December 31, 2012. Note 8—Earnings per Share

152,755

147,465

145,763

Basic earnings per share is computed by dividing net income, after the deduction of preferred stock dividends and undistributed earnings allocated to participating securities, by the weighted average number of common shares outstanding during the period. Diluted earnings per share assumes the issuance of common stock for all potentially dilutive share equivalents outstanding not classified as participating securities. Participating securities are defined as unvested stock-based payment awards that contain nonforfeitable rights to dividends.

(In thousands, except per share amounts)	2013	2012	2011
Net income attributable to continuing operations	\$85,858	\$87,557	\$67,518
Preferred stock dividends	(41)	(41) (41
Income from continuing operations available to common equity	85,817	87,516	67,477
Dividends and undistributed earnings allocated to participating securities	(643	(836) (730
Income from continuing operations available to common shareholders	85,174	86,680	66,747
Net income attributable to discontinued operations	\$2,389	\$3,080	\$2,334
Preferred stock dividends	(1)	(1) (1
Income from discontinued operations available to common equit	y2,388	3,079	2,333
Dividends and undistributed earnings allocated to participating securities	(18	(29) (25
Income from discontinued operations available to common shareholders	2,370	3,050	2,308
Basic weighted-average shares outstanding	36,868	36,564	36,221
Stock options and other stock compensation	582	478	610
Diluted weighted-average shares outstanding	37,450	37,042	36,831
Antidilutive stock options	15	744	894
Earnings per share attributable to continuing operations:			
Basic	\$2.31	\$2.37	\$1.85

Diluted	\$2.28	\$2.34	\$1.81
Earnings per share attributable to discontinued operations:			
Basic	\$0.06	\$0.08	\$0.06
Diluted	\$0.06	\$0.08	\$0.06
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Note 9—Income Taxes				
(In thousands)	2013	2012	2011	
Components of income before income taxes*				
U.S. income	\$48,621	\$67,043	\$58,817	
Non-U.S. income	71,512	62,300	42,258	
Income before income taxes	120,133	129,343	101,075	
Provision for income taxes*				
Current				
Federal	\$18,656	\$18,774	\$6,829	
State	1,492	2,556	872	
Non-U.S.	18,453	19,438	17,449	
Total current provision	38,601	40,768	25,150	
Deferred				
Federal	(3,582) (518) 10,853	
State	(483) (125) 772	
Non-U.S.	609	1,276	(2,968)
Total deferred provision	(3,456) 633	8,657	
Provision for income taxes	35,145	41,401	33,807	

^{*}The components of income before income taxes and the provision for income taxes relate to continuing operations. Included in discontinued operations is tax expense of \$1.4 million in 2013, \$1.1 million in 2012 and \$1.0 million in 2011

Cash flows from operations in the Consolidated Statement of Cash Flows include a deferred income tax provision (benefit) from discontinued operations of \$0.2 million, \$(0.4) million and \$0.1 million in 2013, 2012 and 2011, respectively.

Reconciliation of the U.S. federal income tax rates to our effective tax rate:

	2013	2012	2011	
U.S. federal income tax rate	35.0	% 35.0	% 35.0	%
State income taxes—U.S.	0.6	1.2	1.0	
Taxes on non-U.S. income	(4.5) (1.0) (2.0)
Research and development credit	(1.5) —	(1.3)
Manufacturing deduction credit	(1.1) (2.0) (0.3)
Valuation allowances	0.5	(0.2) 0.1	
Other	0.3	(1.0) 0.9	
Effective income tax rate	29.3	% 32.0	% 33.4	%

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Components of deferred tax assets and liabilities:

2012 58,213 .9,282 1,780 .,240 7,558	
9,282 1,780 .,240	
9,282 1,780 .,240	
1,780 1,240	
,240	
',558	
,006	
212	
9,672	
2,754	
,013	
3,078	
,547	
5,063	
55,418	
3,961	
51,457	
10,547	
10,915	
21,492	
1,110	
44,064	
7,393	
))))))))))	,006 12 ,672 ,754 ,013 ,078 ,547 ,063 5,418 3,961 1,457 10,547 10,915 21,492 1,110 144,064

At December 31, 2013, we had net operating loss carryforwards of approximately \$28.0 million, all of which are in non-U.S. tax jurisdictions. Net operating loss carryforwards of \$0.2 million and \$0.9 million will expire in 2014 and 2015 respectively. The remainder either have a valuation allowance or may be carried forward indefinitely. No deferred U.S. income taxes have been provided on undistributed earnings of non-U.S. subsidiaries, which amounted to \$290.5 million as of December 31, 2013. These earnings are considered to be reinvested for an indefinite period of time. Because we currently do not have any plans to repatriate these funds, we cannot determine the impact of local taxes, withholding taxes and foreign tax credits associated with the future repatriation of such earnings and, therefore, cannot reasonably estimate the associated tax liability. In cases where we intend to repatriate a portion of the undistributed earnings of our foreign subsidiaries, we provide U.S. income taxes on such earnings.

A reconciliation of the change in the tax liability for unrecognized tax benefits for the years ended December 31, 2013 and 2012 is as follows:

(In thousands)	2013	2012	
Beginning balance	\$9,520	\$12,827	
Adjustments for tax positions related to the current year	(3,628) (2,672)
Adjustments for tax positions related to prior years	97	(367)
Statute expiration	(101) (268)
Ending balance	5,888	9,520	

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The total amount of unrecognized tax benefits, if recognized, would reduce our future effective tax rate. We have recognized tax benefits associated with these liabilities in the amount of \$5.1 million and \$8.6 million at December 31, 2013 and 2012, respectively.

We recognize interest related to unrecognized tax benefits in interest expense and penalties in operating expenses. Our liability for accrued interest and penalties related to uncertain tax positions was \$0.7 million at December 31, 2012. During 2013, we reduced interest related to uncertain tax positions by \$0.2 million. Our liability for accrued interest and penalties related to uncertain tax positions was \$0.5 million at December 31, 2013.

We file a U.S. federal income tax return along with various state and foreign income tax returns. Examinations of our U.S. federal returns have been completed through 2010, with the 2009 tax year closed by statute. Various state and foreign income tax returns may be subject to tax audits for periods after 2007.

Note 10—Stock Plans

The 2008 Management Equity Incentive Plan provides for various forms of stock-based compensation for eligible key employees through May 2018. Management stock-based compensation includes stock options, restricted stock and performance stock units. The 2008 Non-Employee Directors' Equity Incentive Plan provides for grants of stock options and restricted stock to non-employee directors through May 2018. Stock options are granted at market prices and expire after 10 years. Stock options are exercisable beginning three years after the grant date. Restricted stock is granted without payment to the company and generally vests three years after the grant date. In general, unvested stock options, restricted stock and performance stock units are forfeited if the participant's employment with the company terminates for any reason other than retirement, death or disability. Restricted stock is valued at the market price on the grant date. The final number of shares to be issued for performance stock units may range from zero to 200% of the target award based on achieving the specified performance targets over the performance period. Performance stock units with a market condition are valued at an estimated fair value using a Monte Carlo model. We issue Stock Compensation Trust shares or Treasury shares for stock option exercises and grants of restricted stock and performance stock. As of December 31, 2013, there were 1,752,369 and 183,702 shares, respectively, reserved for future grants under the management and non-employee directors' equity incentive plans.

Stock-based compensation expense was as follows:

(In thousands)	2013	2012	2011
Restricted stock	\$4,129	\$4,744	\$4,370
Stock options	2,825	2,435	2,343
Performance stock	3,383	2,831	1,019
Total compensation expense before income taxes	10,337	10,010	7,732
Income tax benefit	3,810	3,700	2,825
Total compensation expense, net of income tax benefit	6,527	6,310	4,907

We did not capitalize any stock-based compensation expense in 2013, 2012, or 2011.

Stock option expense is based on the fair value of stock option grants estimated on the grant dates using the Black-Scholes option pricing model and the following weighted average assumptions for options granted in 2013, 2012 and 2011.

	2013		2012		2011	
Fair value per option	\$14.17		\$10.77		\$9.94	
Risk-free interest rate	1.2	%	1.2	%	2.6	%
Expected dividend yield	2.8	%	3.1	%	3.6	%
Expected volatility	39	%	41	%	40	%
Expected life (years)	6.1		6.1		6.1	

The risk-free interest rate is based on the U.S. Treasury Constant Maturity rates as of the grant date converted into an implied spot rate yield curve. Expected dividend yield is based on the most recent annualized dividend divided by the 1 year average closing share price. Expected volatility is based on the ten year historical volatility using daily stock prices. Expected life is based on historical stock option exercise data.

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A summary of option activity follows:

	Shares	Weighted Average Exercise Price	Exercisable at Year-end
Outstanding January 1, 2011	1,749,003	\$29.74	
Granted	166,247	34.09	
Exercised	(94,115)	13.99	
Expired	(2,495)	44.08	
Outstanding December 31, 2011	1,818,640	30.94	907,598
Granted	196,469	37.33	
Exercised	(223,022)	18.93	
Expired	(5,093)	43.33	
Forfeited	(2,334)	36.69	
Outstanding December 31, 2012	1,784,660	33.05	1,100,300
Granted	188,407	49.03	
Exercised	(277,687)	34.72	
Outstanding December 31, 2013	1,695,380	34.55	1,178,657

For various exercise price ranges, characteristics of outstanding and exercisable stock options at December 31, 2013 were as follows:

	Stock Options	Outstanding			
Range of Exercise Prices	Shares	Weighted-Avera	Weighted-Average		
Range of Exercise Frices	Shares	Exercise Price	Remaining Life		
\$17.83 - \$29.33	609,820	\$21.76	5.5 years		
\$33.55 - \$40.88	560,795	37.34	5.6		
\$41.26 - \$49.92	524,765	46.42	5.4		
\$17.83 - \$49.92	1,695,380	34.55	5.5		
	Stock Options	Exercisable			
Range of Exercise Prices	Shares	Weighted-Average			
Range of Exercise Files	Shares	Exercise Price	Remaining Life		
\$17.83 - \$29.33	609,820	\$21.76	5.5 years		
\$33.55 - \$40.88	246,903	39.80	2.9		
\$41.26 - \$48.95	321,934	45.10	3.1		
\$17.83 - \$48.95	1,178,657	31.91	4.3		

Cash received from the exercise of stock options was \$9.6 million, \$4.3 million and \$1.3 million for the years ended December 31, 2013, 2012 and 2011, respectively. The tax benefit we realized from these exercises was \$0.5 million, \$1.6 million and \$0.7 million for the years ended December 31, 2013, 2012 and 2011, respectively.

The aggregate intrinsic value of stock options exercisable at December 31, 2013 was \$22.7 million. The aggregate intrinsic value of all stock options outstanding at December 31, 2013 was \$28.2 million.

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A summary of restricted stock activity follows:

A summary of restricted stock activity follows.		
		Weighted Average
	Shares	Grant Date
		Fair Value
Unvested at January 1, 2011	473,637	\$26.56
Granted	125,603	33.61
Vested	(76,505) 44.39
Forfeited	(10,481) 24.87
Unvested at December 31, 2011	512,254	25.66
Granted	130,985	37.61
Vested	(209,897) 20.44
Forfeited	(15,499) 28.37
Unvested at December 31, 2012	417,843	31.92
Granted	92,448	48.98
Vested	(197,465) 27.42
Forfeited	(9,407) 40.23
Unvested at December 31, 2013	303,419	39.79
A summary of performance stock unit activity follows:	•	
, ,		Weighted Average
	Shares	Grant Date
		Fair Value
Unvested at January 1, 2011	85,629	\$20.53
Granted	48,820	33.09
Performance adjustments	(7,506) 21.14
Forfeited	(1,500) 30.53
Unvested at December 31, 2011	125,443	25.27
Granted	54,928	41.33
Vested	(47,706) 18.23
Performance adjustments	5,679	26.39
Forfeited	(672) 41.45
Unvested at December 31, 2012	137,672	35.85
Granted	53,357	57.58
Vested	(45,809) 26.08
Performance adjustments	4,169	25.84
Unvested at December 31, 2013	149,389	46.32
- · · · · · · · · · · · · · · · · · · ·	,	

During the years ended December 31, 2013, 2012 and 2011, the total intrinsic value of stock options exercised (the difference between the market price on the date of exercise and the option price paid to exercise the option) was \$4.0 million, \$4.4 million and \$1.8 million, respectively. The fair values of restricted stock vested during the years ended December 31, 2013, 2012 and 2011 were \$9.7 million, \$8.0 million and \$2.6 million, respectively. The fair value of performance stock units vested during the year ended December 31, 2013 was \$2.3 million.

On December 31, 2013, there was \$5.4 million of unrecognized stock-based compensation expense. The weighted average period over which this expense is expected to be recognized was approximately one year.

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Note 11—Short and Long-Term Debt

Short-Term Debt

Short-term borrowings with banks, which excludes the current portion of long-term debt, was \$0.8 million and \$0.2 million at December 31, 2013 and 2012, respectively. The average month-end balance of total short-term borrowings during 2013 was \$0.4 million. The maximum month-end balance of \$1.3 million occurred at March 31, 2013. The weighted average interest rates on short-term borrowings at both December 31, 2013 and 2012 was 7%. Long-Term Debt

	December 31,	
(In thousands)	2013	2012
Industrial development debt issues payable through 2022, 0.30%	\$4,000	\$4,000
2006 Senior Notes payable through 2021, 5.41%	53,334	60,000
2010 Senior Notes payable through 2021, 4.00%	100,000	100,000
Senior revolving credit facility maturing in 2016	110,000	115,000
Total	267,334	279,000
Amounts due within one year	6,667	6,667
Long-term debt	260,667	272,333

Our unsecured senior revolving credit facility provides for borrowings of up to \$300.0 million through November 2016 and is subject to certain commitment fees. Loans made under the senior revolving credit facility bear interest at a variable rate, which ranged from 1.42% to 1.71% in 2013. Loan proceeds may be used for general corporate purposes, including working capital, permitted acquisitions, capital expenditures and repayment of existing indebtedness. The credit agreement also provides for an uncommitted incremental facility that permits us, subject to certain conditions, to request an increase in the senior credit facility of up to \$50.0 million. At December 31, 2013, \$184.0 million of the \$300.0 million senior revolving credit facility was unused including letters of credit.

The Company had outstanding bank guarantees and standby letters of credit with banks as of December 31, 2013 totaling \$9.0 million, of which \$6.0 million relate to the senior revolving credit facility. These letters of credit serve to cover customer requirements in connection with certain sales orders, insurance companies and the Company's industrial development debt. No amounts were drawn on these arrangements at December 31, 2013. The Company is also required to provide cash collateral in connection with certain arrangements. At December 31, 2013, the Company has \$2.2 million of restricted cash in support of these arrangements. At December 31, 2013, the Company also has a \$4.1 million guarantee relating to voluntary retirement payments for its unionized workers in Germany. Approximate maturities on our long-term debt over the next five years are \$6.7 million in 2014, \$6.7 million in 2015, \$116.7 million in 2016, \$26.7 million in 2017, \$26.7 million in 2018, and \$83.8 million thereafter. Some debt agreements require us to maintain certain financial ratios and minimum net worth and also contain restrictions on the total amount of debt. We were in compliance with all but one of our debt covenants at December 31, 2013. In January 2014 the Company determined that it was in technical violation of one loan covenant related to the threshold for priority indebtedness in its 2006 Senior Note Purchase Agreement dated December 20, 2006 which resulted in cross default violations in two other loan agreements. The Company obtained the appropriate waivers from its lenders which were fully executed on February 12, 2014. The underlying financial covenants of the Note Purchase Agreement were amended at the same time. We are currently in compliance with all of our debt covenants. Management has filed to redeem the \$4.0 million of Industrial development debt on February 28, 2014.

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Note 12—Goodwill and Intangible Assets

Changes in goodwill during the years ended December 31, 2013 and 2012 were as follows:

(In thousands)	2013	2012	
Net balance at January 1	\$258,400	\$259,084	
Disposals	_	(1,800)
Currency translation	1,734	1,116	
Net balance at December 31	260,134	258,400	

At December 31, 2013, goodwill of \$196.5 million, \$61.3 million and \$2.3 million related to the North American, European and International reporting segments, respectively.

Changes in intangible assets, net of accumulated amortization, during the years ended December 31, 2013 and 2012 were as follows:

(In thousands)	2013	2012	
Net balance at January 1	\$38,648	\$47,119	
Amortization expense	(3,708) (4,181)
Impairment losses	_	(4,272)
Currency translation	89	(18)
Net balance at December 31	35,029	38,648	

At December 31, 2013, gross intangible assets totaled \$67.0 million, while impairment reserves and accumulated amortization of intangibles was \$32.0 million. Gross intangible assets include \$27.6 million of distribution agreements; \$14.3 million of patents, trademarks and copyrights; \$11.0 million of technology related assets; \$7.1 million of license agreements; and \$7.0 million of other intangible assets. Accumulated amortization on these intangible assets was \$5.5 million, \$8.8 million, \$4.7 million, \$7.0 million, and \$6.0 million, respectively. Intangible asset amortization expense over the next five years is expected to be approximately \$3.5 million in 2014, \$3.5 million in 2015, \$3.3 million in 2016, \$2.9 million in 2017, and \$1.9 million in 2018.

In December 2012, we discontinued our firefighter location development project and commenced an active program to sell the related intangible assets. As a result of this decision, we recognized an impairment loss \$4.3 million to write-off the carrying value of these intangibles, consisting primarily of patents and trade secrets. The impairment loss is reported in other income in the income statement and included in Reconciling Items in segment information. During 2012, we sold certain assets related to our North American ballistic helmet business, resulting in the disposal of \$1.8 million of goodwill. The impact of this transaction and the operating results of the North American ballistic helmet businesses was not material to net income or earnings per share for all periods presented and are not expected to be significant to future results.

Note 13—Pensions and Other Postretirement Benefits

We maintain various defined benefit and defined contribution plans covering the majority of our employees. Our principal U.S. plan is funded in compliance with the Employee Retirement Income Security Act (ERISA). It is our general policy to fund current costs for the international plans, except in Germany and Mexico, where it is common practice and permissible under tax laws to accrue book reserves.

We provide health care benefits and limited life insurance for certain retired employees who are covered by our principal U.S. defined benefit pension plan until they become Medicare-eligible.

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Information pertaining to defined benefit pension plans and other postretirement benefits plans is provided in the following table:

ronowing thore.					
	Pension Ber	nefits	Other Benefits		
(In thousands)	2013	2012	2013	2012	
Change in Benefit Obligations					
Benefit obligations at January 1	\$463,806	\$394,269	\$30,551	\$30,425	
Service cost	11,132	9,511	687	694	
Interest cost	17,934	19,018	1,050	1,265	
Participant contributions	136	137	_	_	
Plan Amendments	(239) —	144		
Actuarial (gains) losses	(34,248) 58,102	(4,107)	(191)
Benefits paid	(19,232) (17,804) (1,593	(1,642)
Settlements	(1,474) (2,542) —		
Termination benefits		387			
Currency translation	2,544	2,728			
Benefit obligations at December 31	440,359	463,806	26,732	30,551	
Change in Plan Assets					
Fair value of plan assets at January 1	384,452	357,967			
Actual return on plan assets	67,391	41,478			
Employer contributions	4,053	4,448	1,449	1,642	
Participant contributions	136	137	143	222	
Settlements	(1,474) (2,542) —		
Benefits paid	(16,316) (15,198) (1,592	(1,864)
Reimbursement of German benefits	(2,916) (2,606) —		
Currency translation	(757) 768			
Fair value of plan assets at December 31	434,569	384,452			
Funded Status					
Funded status at December 31	(5,790) (79,354) (26,732	(30,551)
Unrecognized transition losses	21	24			
Unrecognized prior service cost	374	712	(2,193)	(2,618)
Unrecognized net actuarial losses	116,945	198,169	6,832	11,492	
Net amount recognized	111,550	119,551	(22,093	(21,677)
Amounts Recognized in the Balance Sheet					
Noncurrent assets	121,054	42,818	_	_	
Current liabilities	(5,518) (5,021) (1,695	(1,882)
Noncurrent liabilities	(121,326) (117,151) (25,037	(28,669)
Net amount recognized	(5,790) (79,354) (26,732	(30,551)
Amounts Recognized in Accumulated Other					
Comprehensive Income					
Net actuarial losses	116,945	198,169	6,832	11,492	
Prior service cost (credit)	374	712	(2,193)	(2,618)
Unrecognized net initial obligation	21	24	_	_	
Total (before tax effects)	117,340	198,905	4,639	8,874	
Accumulated Benefit Obligations for all Defined	403,682	414,957			
Benefit Plans	703,002	717,737			
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	Pension Be	enefits		Other Ber	nefits		
(In thousands)	2013	2012	2011	2013	2012	2011	
Components of Net Periodic							
Benefit Cost (Credit)							
Service cost	\$11,132	\$9,511	\$8,674	\$687	\$694	\$785	
Interest cost	17,934	19,018	19,531	1,050	1,265	1,501	
Expected return on plan assets	(30,884) (32,328) (34,125) —			
Amortization of transition amounts	3	2	4		_		
Amortization of prior service cost	102	101	104	(424) (454) (455)
Recognized net actuarial losses	13,323	6,235	793	552	529	710	
Curtailment loss	658	747	52		_	_	
Termination benefits	_	387	_		_	_	
Net periodic benefit cost (credit)	12,268	3,673	(4,967) 1,865	2,034	2,541	

Amounts included in accumulated other comprehensive income expected to be recognized in 2014 net periodic benefit costs.

(In thousands)			Pension B	enefits	Other I	Benefits	
Loss recognition			\$9,039		\$332		
Prior service cost (credit) recognition			84		(335)
Transition obligation recognition			2				
	Pension Ben	efits		Other Be	enefits		
	2013	20)12	2013		2012	
Assumptions used to determine benefit obligations	S						
Average discount rate	4.5	% 4.0	0	% 4.6	%	3.8	%
Rate of compensation increase	3.1	% 3.	8	% —			
Assumptions used to determine net periodic							
benefit cost							
Average discount rate	4.0	% 5.0	0	% 3.8	%	4.8	%
Expected return on plan assets	8.2	% 8.	2	% —			
Rate of compensation increases	3.8	% 3.	9	% —	,		

Discount rates were determined using various corporate bond indexes as indicators of interest rate levels and movements and by matching our projected benefit obligation payment stream to current yields on high quality bonds. The expected return on assets for the 2013 net periodic pension cost was determined by multiplying the expected returns of each asset class (based on historical returns) by the expected percentage of the total portfolio invested in that asset class. A total return was determined by summing the expected returns over all asset classes.

Pension Plan Assets at			
December 31,			
2013	2012		
71	% 64	%	
19	25		
5	6		
3	3		
2	2		
100	% 100	%	
	December 3 2013 71 19 5 3 2	2013 2012 71 % 64 19 25 5 6 3 3 2 2	

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The overall objective of our pension investment strategy is to earn a rate of return over time to satisfy the benefit obligations of the pension plans and to maintain sufficient liquidity to pay benefits and meet other cash requirements of our pension funds. Investment policies for our primary U.S. pension plan are determined by the plan's Investment Committee and set forth in the plan's investment policy. Asset managers are granted discretion for determining sector mix, selecting securities and timing transactions, subject to the guidelines of the investment policy. An aggressive, flexible management of the portfolio is permitted and encouraged, with shifts of emphasis among equities, fixed income securities and cash equivalents at the discretion of each manager. No target asset allocations are set forth in the investment policy. For our non-U.S. pension plans, our investment objective is generally met through the use of pooled investment funds and insurance contracts.

The following table summarizes our pension plan assets measured at fair value on a recurring basis by fair value hierarchy level (See Note 17):

	December 31, 20 Quoted Prices	013		
(In thousands)	in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total Fair Value
Equity securities	\$307,486	\$ —	\$428	\$307,914
Fixed income securities	36,749	47,545	_	84,294
Pooled investment funds	_	22,430	_	22,430
Insurance contracts	_	_	13,512	13,512
Cash and cash equivalents	6,067	_	352	6,419
Total	350,302	69,975	14,292	434,569
	December 31, 20	012		
	Quoted Prices			
(In thousands)	in Active Markets for Identical Assets (Level 1)	Significant Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Total Fair Value
Equity securities	\$245,840	\$ —	\$ —	\$245,840
Fixed income securities				
	43,600	52,762	—	96,362
Pooled investment funds	43,600	52,762 22,030	_	96,362 22,030
Pooled investment funds Insurance contracts	43,600			•
	43,600 — — 7,966			22,030

Equity securities consist primarily of publicly traded U.S. and non-U.S. common stocks. Equities are valued at closing prices reported on the listing stock exchange.

Fixed income securities consist primarily of U.S. government and agency bonds and U.S. corporate bonds. Fixed income securities are valued at closing prices reported in active markets or based on yields currently available on comparable securities of issuers with similar credit ratings. When quoted prices are not available for identical or similar bonds, the bond is valued under a discounted cash flow approach that maximizes observable inputs, such as current yields of similar instruments, and may include adjustments, for certain risks that may not be observable, such as credit and liquidity risks.

Pooled investment funds consist of mutual and collective investment funds that invest primarily in publicly traded non-U.S. equity and fixed income securities. Pooled investment funds are valued at net asset values calculated by the fund manager based on fair value of the underlying securities. The underlying securities are generally valued at closing prices reported in active markets, quoted prices of similar securities, or discounted cash flows approach that

maximizes observable inputs such as current value measurement at the reporting date. Insurance contracts are valued in accordance with the terms of the applicable collective pension contract. Cash equivalents consist primarily of money market and similar temporary investment funds. Cash equivalents are valued at closing prices reported in active markets.

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The preceding methods may produce fair value measurements that are not indicative of net realizable value or reflective of future fair values. Although we believe the valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The following table presents a reconciliation of Level 3 assets:

(In thousands)	Insurance	Other
(iii tiloustilus)	Contracts	Other
Balance January 1, 2012	\$11,562	\$ —
Net realized and unrealized gains included in earnings	1,933	
Net purchases, issuances and settlements	(1,241)—
Balance December 31, 2012	12,254	_
Net realized and unrealized gains included in earnings	1,074	780
Net purchases, issuances and settlements	173	_
Transfers into Level 3	11	_
Balance December 31, 2013	13,512	780

We expect to make net contributions of \$4.5 million to our pension plans in 2014.

For measurement purposes, 7.5% increase in the costs of covered health care benefits was assumed for the year 2013, decreasing by 0.5% for each successive year to 4.5% in 2019 and thereafter. A one-percentage-point change in assumed health care cost trend rates would have increased or decreased the other postretirement benefit obligations and current year plan expense by approximately \$1.5 million and \$1.7 million, respectively.

Expense for defined contribution pension plans was \$5.8 million in 2013, \$5.9 million in 2012 and \$5.7 million in 2011.

Estimated pension benefits to be paid under our defined benefit pension plans during the next five years are \$20.4 million in 2014, \$20.6 million in 2015, \$21.2 million in 2016, \$22.3 million in 2017, \$23.2 million in 2018, and are expected to aggregate \$133.3 million for the five years thereafter. Estimated other postretirement benefits to be paid during the next 5 years are \$1.7 million in 2014, \$1.8 million in 2015, \$1.9 million in 2016, \$2.0 million in 2017, \$2.1 million in 2018, and are expected to aggregate \$11 million for the five years thereafter.

Note 14—Other (Loss) Income, Net

(In thousands)	2013	2012	2011
Interest income	\$1,142	\$1,411	\$1,809
Land impairment loss	(1,557) —	
Gain on asset dispositions, net	436	8,396	3,328
Escrow settlement	_	4,790	
Intangible asset impairment loss (See Note 10)	_	(4,272) —
Other, net	(196) 551	321
Total	(175) 10,876	5,458

During the year ended December 31, 2013, impairment charges were taken on land not used in operations. During the year ended December 31, 2012, we settled an escrow claim for indemnification with the sellers of General Monitors. Under the terms of the settlement, we received \$4.8 million in December 2012. The settlement proceeds have been recognized in other income because the settlement occurred after the business combination measurement period ended. The escrow agreement has now expired and the remaining escrow account balance was released to the sellers. In addition, we recognized gains on the sale of assets totaling \$8.4 million in 2012 compared to gains of \$3.3 million in 2011. These gains were primarily related to property sales in our Cranberry Woods office park.

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Note 15—Leases

We lease office space, manufacturing and warehouse facilities, automobiles and other equipment under operating lease arrangements. Rent expense was \$12.9 million in 2013, \$12.5 million in 2012 and \$12.2 million in 2011. Minimum rent commitments under noncancellable leases are \$11.9 million in 2014, \$9.8 million in 2015, \$4.2 million in 2016, \$2.4 million in 2017, \$1.8 million in 2018 and \$2.8 million thereafter.

Note 16—Derivative Financial Instruments

As part of our currency exchange rate risk management strategy, we enter into certain derivative foreign currency forward contracts that do not meet the GAAP criteria for hedge accounting, but which have the impact of partially offsetting certain foreign currency exposures. We account for these forward contracts on a full mark-to-market basis and report the related gains or losses in currency exchange losses (gains) in the consolidated statement of income. At December 31, 2013, the notional amount of open forward contracts was \$54.4 million and the unrealized gain on these contracts was \$1.3 million. All open forward contracts will mature during the first quarter of 2014.

December 31.

The following table presents the balance sheet location and fair value of assets and liabilities associated with derivative financial instruments.

		December 3	1,	
(In thousands)		2013	2012	
Derivatives not designated as hedging instruments:				
Foreign exchange contracts - Prepaid expenses and	other current assets	\$1,308	\$801	
The following table presents the income statement le	ocation and impact of de	rivative financi	al instruments:	
		(Gain)		
	Income Statement Location	Recognized in Income		
(In thousands)		Year ended		
	Location	December 3	1,	
		2013	2012	
Derivatives not designated as hedging instruments:				
Foreign exchange contracts	Currency exchange (gains), net	\$(755) \$(1,139)

Note 17—Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The fair value hierarchy consists of three broad levels, which gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3). The three levels of the fair value hierarchy are: Level 1—Observable inputs that reflect unadjusted quoted prices for identical assets or liabilities in active markets. Level 2—Inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3—Unobservable inputs for the asset or liability.

The valuation methodologies we used to measure financial assets and liabilities were limited to the pension plan assets described in Note 13 and the derivative financial instruments described in Note 16. See Note 13 for the fair value hierarchy classification of pension plan assets. We estimate the fair value of the derivative financial instruments, consisting of foreign currency forward contracts, based upon valuation models with inputs that generally can be verified by observable market conditions and do not involve significant management judgment. Accordingly, the fair values of the derivative financial instruments are classified within Level 2 of the fair value hierarchy. With the exception of fixed rate long-term debt, we believe that the reported carrying amounts of our financial assets

and liabilities approximate their fair values. At December 31, 2013, the reported carrying amount of our fixed rate long-term debt (including the current portion) was \$153.3 million and the fair value was \$160.3 million. The fair value of our long-term debt was determined using cash flow valuation models to estimate the market value of similar transactions as of December 31, 2013. The fair value of this debt was determined using Level 2 inputs as described above.

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Note 18—Contingencies

We categorize the product liability losses that we experience into two main categories; single incident and cumulative trauma. Single incident product liability claims are discrete incidents that are typically known to us when they occur and involve observable injuries and, therefore, more quantifiable damages. Therefore, we maintain a reserve for single incident product liability claims based on expected settlement costs for pending claims and an estimate of costs for unreported claims derived from experience, sales volumes and other relevant information. Our reserve for single incident product liability claims at December 31, 2013 and 2012 was \$4.0 million and \$4.4 million, respectively. Single incident product liability expense was negligible during year ended December 31, 2013. During the years ended December 31, 2012 and 2011, single incident product liability expense was \$0.7 million and \$1.5 million, respectively. We evaluate our single incident product liability expenses on an ongoing basis and make adjustments to the reserve as new information becomes available.

Cumulative trauma product liability claims involve exposures to harmful substances (e.g., silica, asbestos and coal dust) that occurred many years ago and may have developed over long periods of time into diseases such as silicosis, asbestosis or coal worker's pneumoconiosis. We are presently named as a defendant in 2,840 lawsuits in which plaintiffs allege to have contracted certain cumulative trauma diseases related to exposure to silica, asbestos, and/or coal dust. These lawsuits mainly involve respiratory protection products allegedly manufactured and sold by us. We are unable to estimate total damages sought in these lawsuits as they generally do not specify the injuries alleged or the amount of damages sought, and potentially involve multiple defendants.

Cumulative trauma product liability litigation is difficult to predict. In our experience, until late in a lawsuit, we cannot reasonably determine whether it is probable that any given cumulative trauma lawsuit will ultimately result in a liability. This uncertainty is caused by many factors, including the following: cumulative trauma complaints generally do not provide information sufficient to determine if a loss is probable; cumulative trauma litigation is inherently unpredictable and information is often insufficient to determine if a lawsuit will develop into an actively litigated case; and even when a case is actively litigated, it is often difficult to determine if the lawsuit will be dismissed or otherwise resolved until late in the lawsuit. Moreover, even once it is probable that such a lawsuit will result in a loss, it is difficult to reasonably estimate the amount of actual loss that will be incurred. These amounts are highly variable and turn on a case-by-case analysis of the relevant facts, which are often not learned until late in the lawsuit. Because of these factors, we cannot reliably determine our potential liability for such claims until late in the lawsuit. We, therefore, do not record cumulative trauma product liability losses when a lawsuit is filed, but rather, when we learn sufficient information to determine that it is probable that we will incur a loss and the amount of loss can be reasonably estimated. We record expenses for defense costs associated with open cumulative trauma product liability lawsuits as incurred.

We cannot estimate any amount or range of possible losses related to resolving pending and future cumulative trauma product liability lawsuits that we may face because of the factors described above. As new information about cumulative trauma product liability cases and future developments becomes available, we reassess our potential exposures.

A summary of cumulative trauma product liability lawsuit activity follows:

	2013	2012	2011
Open lawsuits, January 1	2,609	2,321	1,900
New lawsuits	489	750	479
Settled and dismissed lawsuits	(258) (462) (58
Open lawsuits, December 31	2,840	2,609	2,321

Nearly half of the open lawsuits at December 31, 2013 have had a de minimus level of activity over the last 5 years. It is possible that these cases could become active again at any point due to changes in circumstances.

With some common contract exclusions, we maintain insurance for cumulative trauma product liability claims. We have purchased insurance policies for the policy years from 1952-1986 from over 20 different insurance carriers that provide coverage for cumulative trauma product liability losses and, in many instances, related defense costs. In the normal course of business, we make payments to settle product liability claims and for related defense costs. We record receivables for the amounts that are covered by insurance. The available limits of these policies are many times

our recorded insurance receivable balance.

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Various factors could affect the timing and amount of recovery of our insurance receivables, including the outcome of negotiations with insurers, legal proceedings with respect to product liability insurance coverage and the extent to which insurers may become insolvent in the future.

Our insurance receivables at December 31, 2013 and 2012 totaled \$124.8 million and \$130.0 million, respectively, all of which is reported in other non-current assets.

A summary of insurance receivable balances and activity related to cumulative trauma product liability losses follows:

(In millions)	2013	2012	2011	
Balance January 1	\$130.0	\$112.1	\$89.0	
Additions	34.0	29.7	35.6	
Collections and settlements	(39.2) (11.8) (12.5)
Balance December 31	124.8	130.0	112.1	

Additions to insurance receivables in the above table represent insured cumulative trauma product liability losses and related defense costs. Uninsured cumulative trauma product liability losses during the years ended December 31, 2013, 2012, and 2011 were \$1.7 million, \$2.1 million and \$1.1 million, respectively. Collections primarily represent agreements with insurance companies to pay amounts due that are applicable to cumulative trauma claims. In cases where the payment stream covers multiple years, the present value of the payments is recorded as a note receivable (current and long term) in the balance sheet within prepaid expenses and other current assets and other noncurrent assets.

Our aggregate cumulative trauma product liability losses and administrative and defense costs for the three years ended December 31, 2013, totaled approximately \$104.2 million, substantially all of which was insured. We believe that the increase in the insurance receivable balance that we have experienced since 2005 is primarily due to disagreements among our insurance carriers, and consequently with us, as to when their individual obligations to pay us are triggered and the amount of each insurer's obligation, as compared to other insurers. We believe that our insurers do not contest that they have issued policies to us or that these policies cover certain cumulative trauma product liability claims. We believe that our ability to successfully resolve our insurance litigation with various insurance carriers in recent years demonstrates that we have strong legal positions concerning our rights to coverage. We regularly evaluate the collectability of the insurance receivables and record the amounts that we conclude are probable of collection. Our conclusions are based on our analysis of the terms of the underlying insurance policies, our experience in successfully recovering cumulative trauma product liability claims from our insurers under other policies, the financial ability of our insurance carriers to pay the claims, our understanding and interpretation of the relevant facts and applicable law and the advice of legal counsel, who believe that our insurers are required to provide coverage based on the terms of the policies.

Although the outcome of cumulative trauma product liability matters cannot be predicted with certainty and unfavorable resolutions could materially affect our results of operations on a quarter-to-quarter basis, based on information currently available and the amounts of insurance coverage available to us, we believe that the disposition of cumulative trauma product liability lawsuits that are pending against us will not have a materially adverse effect on our future results of operations, financial condition, or liquidity.

We are currently involved in insurance coverage litigations with a number of our insurance carriers.

In 2009, we sued The North River Insurance Company (North River) in the United States District Court for the Western District of Pennsylvania, alleging that North River breached one of its insurance policies by failing to pay amounts owed to us and that it engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under the policy for product liability losses and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Motions for summary judgment on certain issues will be submitted to the court at the earliest possible date. A trial date has not yet been scheduled.

In 2010, North River sued us in the Court of Common Pleas of Allegheny County, Pennsylvania seeking a declaratory judgment concerning their responsibilities under three additional policies. We assert claims against North River for breaches of contract for failures to pay amounts owed to us. We also allege that North River engaged in bad-faith claims handling. We believe that North River's refusal to indemnify us under these policies for product liability losses

and legal fees paid by us is wholly contrary to Pennsylvania law and we are vigorously pursuing the legal actions necessary to collect all due amounts. Summary judgment on certain issues is pending with the court. A trial date has not yet been scheduled.

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In July 2010, we filed a lawsuit in the Superior Court of the State of Delaware seeking declaratory and other relief from the majority of our excess insurance carriers concerning the future rights and obligations of MSA and our excess insurance carriers under various insurance policies. The reason for this insurance coverage action is to secure a comprehensive resolution of our rights under the insurance policies issued by our insurers. The case is currently in discovery. We have resolved our claims against certain of our insurance carriers on some of their policies through negotiated settlements. When settlement is reached, we dismiss the settling carrier from this action in Delaware. During September 2013, we resolved coverage litigation with Associated International Insurance Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Associated International Insurance Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Allstate Insurance Company, through a negotiated settlement. As part of this settlement, both parties dismissed all claims against one another under the above-referenced coverage litigations in the Court of Common Pleas of Allegheny County, Pennsylvania and the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

During December 2013, we resolved coverage litigation with Columbia Casualty Company, through a negotiated settlement. As part of this settlement, we dismissed all claims against Columbia Casualty Company in the above-referenced coverage litigation in the Superior Court of the State of Delaware. The settlement did not have an impact on our operating results.

Note 19—Assets Held for Sale and Discontinued Operations

Assets Held for Sale - In September 2013, we entered into an agreement to sell the detector tube assets. The transaction closed in January, 2014. In addition to the asset sale agreement, we entered into transitional manufacturing and sales agreements with the buyer. Under the terms of the transitional agreements, we will continue to manufacture and sell detector tubes on behalf of the buyer until mid-2014. The gain on the transaction will be recognized in 2014, at the conclusion of the transitional manufacturing period and will not be material to net income or earnings per share. Certain assets related to detector tube manufacturing are classified as held for sale at December 31, 2013. These assets are reported in the following balance sheet lines:

(In millions)	December 31, 2013
Inventory	\$1.4
Property, net of depreciation	0.2
Total assets	1.6

Discontinued Operations - The Company is actively negotiating the sale of substantially all of the assets and liabilities of its South African personal protective equipment distribution business and its Zambian operations. Management has deemed it probable that the sale of these assets and liabilities will close in 2014. The operations of this business qualify as a component of an entity under FASB ASC 205-20 "Presentation of Financial Statements - Discontinued Operations", and thus the operations have been reclassified as discontinued operations and prior periods have been reclassified to conform to this presentation. Management does not believe the assets associated with the South African distribution business or the Zambian operations are impaired at December 31, 2013.

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Summarized financial information for discontinued operations is as follows:

	Year ended	December 31,		
(In thousands)	2013	2012	2011	
Discontinued Operations				
Net Sales	\$52,692	\$58,461	\$60,414	
Other income (loss), net	40	115	(78)
Cost and expenses:				
Cost of products sold	41,181	45,277	48,544	
Selling, general and administrative	7,389	8,376	8,588	
Interest expense	_	17	1	
Currency exchange losses, net	(325)(41) (540)
Income from discontinued operations before income taxes	4,487	4,947	3,743	
Provision for income taxes	1,426	1,128	966	
Income from discontinued operations, net of tax	3,061	3,819	2,777	
		December 31,		
(In thousands)		2013	2012	
Discontinued Operations assets and liabilities				
Cash and Cash Equivalents		\$2,980	\$2,465	
Trade receivables, less allowance for doubtful accoun	nts	7,452	8,870	
Inventories		11,359	11,875	
Net property		317	286	
Other assets		1,326	2,252	
Total assets		23,434	25,748	
Accounts Payable		5,447	3,356	
Accrued and other liabilities		930	1,685	
Total liabilities		6,377	5,041	
Net assets		17,057	20,707	

The assets and liabilities reported above are included in the International Segment detail in Note 7.

The following summary provides financial information for discontinued operations related to net loss (income) related to noncontrolling interests:

	Year ended I			
(In thousands)	2013	2012	2,011	
Net loss (income) attributable to noncontrolling interests				
Loss (income) from continuing operations	\$870	\$(385) \$250	
(Income) from discontinued operations	(672) (739) (443)
Net loss (income)	198	(1,124) (193)

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Note 20—Quarterly Fi	nancial Information	(Unaudited)
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Note 20—Quarterly Financial Information	on (Unaudited)				
	2013				
	Quarters				* 7
(In thousands, except earnings per share)	-	2nd	3rd	4th	Year
Continuing Operations:					
Net sales	\$269,886	\$285,859	\$264,884	\$291,429	\$1,112,058
Gross profit	121,704	129,665	115,426	130,050	496,845
Net income attributable to Mine Safety	121,704	127,003	113,420	130,030	470,043
·	18,627	23,315	18,987	24,929	85,858
Appliances Company					
Earnings per share*					
Basic	0.50	0.63	0.51	0.67	2.31
Diluted	0.49	0.62	0.51	0.66	2.28
Dilucci	0.47	0.02	0.51	0.00	2.20
Discontinued Operations:					
Net sales	13,353	13,836	13,361	12,142	52,692
Gross profit	3,078	3,215	2,790	2,428	11,511
Net income attributable to Mine Safety					
Appliances Company	659	734	514	482	2,389
Earnings per share*					
Basic	0.02	0.02	0.01	0.01	0.06
Diluted	0.02	0.02	0.01	0.01	0.06
	2012				
	Quarters				X 7
(In thousands, except earnings per share)	-	2nd	3rd	4th	Year
Continuing Operations:					
Net sales	\$278,255	\$279,367	\$270,480	\$282,341	\$1,110,443
Gross profit	123,377	119,538	118,391	128,242	489,548
Net income attributable to Mine Safety	•	117,550	110,371	120,2-12	102,510
Appliances Company	23,090	27,078	18,173	19,216	87,557
repriances company					
Earnings per share*					
Basic	0.63	0.74	0.49	0.52	2.37
Diluted	0.62	0.73	0.48	0.51	2.34
Discontinued Operations:					
Net sales	15,230	15,371	16,087	11,773	58,461
Gross profit	3,614	3,588	3,863	2,119	13,184
Net income attributable to Mine Safety	922	017	1.060	271	2.000
Appliances Company	832	917	1,060	271	3,080
Earnings per share*					
Basic	0.02	0.02	0.03	0.01	0.08
Diluted	0.02	0.02	0.03	0.01	0.08

^{*} Per share amounts are calculated independently for each period presented; therefore, the sum of the quarterly per share amounts may not equal the per share amounts for the year.

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Note 21—Subsequent Event

Subsequent to December 31, 2013, our Safety Works joint venture was informed of a significant unfavorable change to the terms of a contract with its largest customer. The future impact of this change is not estimable at February 24, 2014.

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Item 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure None.

Item 9A. Controls and Procedures

- (a) Evaluation of disclosure controls and procedures. Based on their evaluation as of the end of the period covered by this Form 10-K, the Company's principal executive officer and principal financial officer have concluded that the Company's disclosure controls and procedures (as defined in Rules 13a-15(e) and 15d-15(e) under the Securities Exchange Act of 1934 (the "Exchange Act")) are effective to ensure that information required to be disclosed by the Company in reports that it files or submits under the Exchange Act is (i) recorded, processed, summarized and reported within the time periods specified in Securities and Exchange Commission rules and forms and (ii) accumulated and communicated to our management, including the principal executive officer and principle financial officer, as appropriate to allow timely decisions regarding required disclosure.
- (b) Changes in internal control. There were no changes in the Company's internal control over financial reporting that occurred during the Company's most recent fiscal quarter that have materially affected, or are reasonably likely to materially affect, the Company's internal control over financial reporting.

See Item 8. Financial Statements and Supplementary Data—"Management's Report on Internal Control Over Financial Reporting" and "Report of Independent Registered Public Accounting Firm."

Item 9B. Other Information

None.

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PART III

- Item 10. Directors, Executive Officers and Corporate Governance
- Item 11. Executive Compensation
- Item 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters
- Item 13. Certain Relationships and Related Transactions, and Director Independence
- Item 14. Principal Accountant Fees and Services

With respect to this Part III, incorporated by reference herein pursuant to Rule 12b—23 are (1) "Election of Directors," (2) "Executive Compensation," (3) "Other Information Concerning the Board of Directors," (4) "Stock Ownership," and (5) "Selection of Independent Registered Public Accounting Firm," appearing in the Proxy Statement filed pursuant to Regulation 14A in connection with the registrant's Annual Meeting of Shareholders to be held on May 6, 2014. The information appearing in such Proxy Statement under the caption "Audit Committee Report" and the other information appearing in such Proxy Statement and not specifically incorporated by reference herein is not incorporated herein. As to Item 10 above, also see the information reported in Part I of this Form 10-K, under the caption "Executive Officers of the Registrant," which is incorporated herein by reference. As to Item 10 above, the Company has adopted a Code of Ethics applicable to its principal executive officer, principal financial officer and principal accounting officer and other Company officials. The text of the Code of Ethics is available on the Company's website at www.MSAsafety.com. Any amendment to, or waiver of, a required provision of the Code of Ethics that applies to the Company's principal executive, financial or accounting officer will also be posted on the Company's Internet site at that address.

As to Item 12 above, the following table sets forth information as of December 31, 2013 concerning common stock issuable under the Company's equity compensation plans.

Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights (a)	Weighted average exercise price of	remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a)) (c)
Equity compensation plans approved by security holders	1,695,380	\$34.55	1,936,071*
Equity compensation plans not approved by security holders	None	_	None
Total	1,695,380	34.55	1,936,071

^{*} Includes 1,752,369 shares available for issuance under the 2008 Management Equity Incentive Plan and 183,702 shares available for issuance under the 2008 Non-Employee Directors' Equity Incentive Plan.

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Number of courities

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PART IV

Item 15. Exhibits and Financial Statement Schedules

(a) 1. Financial Statements and Report of Independent Registered Public Accounting Firm (see Part II, Item 8 of this Form 10-K).

The following information is filed as part of this Form 10-K.

	Page
Management's Report on Responsibility for Financial Reporting and Management's Report on	33
Internal Control Over Financial Reporting	33
Report of Independent Registered Public Accounting Firm	34
Consolidated Statement of Income—three years ended December 31, 2013	35
Consolidated Statement of Comprehensive Income—three years ended December 31, 2013	36
Consolidated Balance Sheet—December 31, 2013 and 2012	37
Consolidated Statement of Cash Flows—three years ended December 31, 2013	38
Consolidated Statement of Changes in Retained Earnings and Accumulated Other Comprehensiv	e 20
Income—three years ended December 31, 2013	39
Notes to Consolidated Financial Statements	40

(a) 2. The following additional financial information for the three years ended December 31, 2013 is filed with the report and should be read in conjunction with the above financial statements:

Schedule II—Valuation and Qualifying Accounts

All other schedules are omitted because they are not applicable, not material or the required information is shown in the consolidated financial statements and consolidated notes to the financial statements listed above.

- (a) 3. Exhibits
- Restated Articles of Incorporation as amended and restated May 23, 1986 and as further amended through May 2007, filed as Exhibit 3.1 to Form 8-K on May 15, 2007, is incorporated herein by reference.
- By-laws of the registrant, as amended to February 17, 2012, filed as Exhibit 3.1 to Form 8-K on February 24, 2012, is incorporated herein by reference.
- 10(a)* 2008 Management Equity Incentive Plan, as amended and restated through February 25, 2011, filed as Exhibit 10.1 to Form 10-Q on July 28, 2011, is incorporated herein by reference.
- Retirement Plan for Directors, as amended effective April 1, 2001, filed as Exhibit 10(a) to Form 10-Q on May 10, 2006, is incorporated herein by reference.
- Supplemental Pension Plan as of May 5, 1998, filed as Exhibit 10(d) to Form 10-Q on August 12, 2003, is 10(c)* incorporated herein by reference.
- Supplemental Pension Plan as amended and restated effective January 1, 2005, filed as Exhibit 10.3 to Form 10-Q on November 27, 2013, is incorporated herein by reference.
- 10(e)* 2008 Non-Employee Directors' Equity Incentive Plan, as amended through November 27, 2013, filed herewith.
- Executive Insurance Program as Amended and Restated as of January 1, 2006, filed as Exhibit 10(a) to Form 10-Q on August 7, 2007, is incorporated herein by reference.

10(g)*

Annual Incentive Bonus Plan as of May 5, 1998, filed as Exhibit 10(g) to Form 10-Q on August 12, 2003, is incorporated herein by reference.

10(h)* Supplemental Executive Retirement Plan, effective January 1, 2008, filed as Exhibit 10.2 to Form 10-Q on April 30, 2009, is incorporated herein by reference.

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- Form of Change-in-Control Severance Agreement between the registrant and its executive officers, filed as Exhibit 10.1 to Form 10-Q on April 30, 2009, is incorporated herein by reference.
- Trust Agreement, effective June 1, 1996, as amended through May 15, 2010, between the registrant and 10(j) PNC Bank, N.A. re the Mine Safety Appliances Company Stock Compensation Trust filed as Exhibit 10.1 to Form 10-Q on July 28, 2010, is incorporated herein by reference.
- 10(k)* 2003 Supplemental Savings Plan, effective January 1, 2003, filed herewith.
- 10(1)* 2005 Supplemental Savings Plan, effective January 1, 2005, filed as Exhibit 10.4 to Form 10-Q on April 30, 2009, is incorporated herein by reference.
- 10(m)* CEO Annual Incentive Award Plan filed as Appendix A to the registrant's definitive proxy statement dated March 29, 2005, is incorporated herein by reference.
- Credit Agreement dated October 13, 2010 by and among Mine Safety Appliances Company, each of the guarantors party thereto, each of the lenders party thereto, PNC Bank, National Association, as administrative agent for the lenders, and J.P. Morgan Chase Bank, N.A., as syndication agent for the Lenders, filed as Exhibit 10.1 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- Guaranty and Suretyship Agreement dated October 13, 2010 from General Monitors Transnational, LLC in favor of PNC Bank, National Association, and the other lenders party to the Credit Agreement, filed as Exhibit 10.2 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- Guaranty and Suretyship Agreement dated October 13, 2010 from Fifty Acquisition Corp. in favor of PNC 10(p)

 Bank, National Association, and the other lenders party to the Credit Agreement, filed as Exhibit 10.3 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- Note Purchase Agreement and Private Shelf Agreement dated October 13, 2010 by and among Mine Safety
 10(q) Appliances Company, Prudential Investment Management, Inc. and the Series A Purchasers thereto, filed as
 Exhibit 10.4 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- Guarantee Agreement dated as of October 13, 2010 made by General Monitors Transnational, LLC in favor of the Note Purchasers, filed as Exhibit 10.5 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- Guarantee Agreement dated as of October 13, 2010 made by Fifty Acquisition Corp. in favor of the Note Purchasers, filed as Exhibit 10.6 to Form 8-K on October 19, 2010, is incorporated herein by reference.
- First Amendment to Credit Agreement dated November 16, 2011 by and among Mine Safety Appliances Company, each of the guarantors party thereto, each of the lenders party thereto, PNC Bank, National

 10(t) Association, as administrative agent for the lenders, and J. P. Morgan Chase Bank N.A., as syndication agent for the Lenders, filed as Exhibit 10.1 to Form 8-K on November 21, 2011, is incorporated berein by
- for the Lenders, filed as Exhibit 10.1 to Form 8-K on November 21, 2011, is incorporated herein by reference.
- Guaranty and Suretyship Agreement effective November 18, 2011 from MSA International, Inc. in favor of 10(u) PNC Bank, National Association, and other lenders party to the Credit Agreement, filed as Exhibit 10.2 to Form 8-K on November 21, 2011, is incorporated herein by reference.

10(v)	Amendment No. 1 to 2010 Note Purchase Agreement and Private Shelf Agreement dated April 5, 2012 by and among Mine Safety Appliances Company, Prudential Investment Management, Inc. and the Series A Purchasers thereto, filed herewith.
10(w)	Guarantee Agreement dated April 5, 2012 from MSA International, Inc. in favor of the note holders under the 2010 Note Purchase Agreement and Private Shelf Agreement, filed herewith.
10(x)	Amendment No. 3 and Waiver to 2010 Note Purchase Agreement and Private Shelf Agreement dated February 12, 2014 by and among Mine Safety Appliances Company, Prudential Investment Management, Inc. and the Series A Purchasers thereto, filed herewith.
10(y)	Note Purchase Agreement dated December 20, 2006, by and among Mine Safety Appliances Company and each of the holders of the Notes, filed herewith.
10(z)	Amendment No. 1 and Waiver to 2006 Note Purchase Agreement dated February 12, 2014 by and among Mine Safety Appliances Company and each of the holders of the Notes, filed herewith.
10(aa)	Guarantee Agreement dated February 12, 2014 from General Monitors Transnational, LLC in favor of the note holders under the 2006 Note Purchase Agreement, filed herewith.
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- Guarantee Agreement dated February 12, 2014 from General Monitors, Inc. in favor of the note holders 10(bb) under the 2006 Note Purchase Agreement, filed herewith.
- Guarantee Agreement dated February 12, 2014 from MSA International, Inc. in favor of the note holders under the 2006 Note Purchase Agreement, filed herewith.
- 21 Affiliates of the registrant is filed herewith.
- 23 Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm is filed herewith.
- 31.1 Certification of W. M. Lambert pursuant to Rule 13a-14(a) is filed herewith.
- 31.2 Certification of Stacy P. McMahan pursuant to Rule 13a-14(a) is filed herewith.
- Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C.(S)1350 is filed herewith.
- 101.INS XBRL Instance Document
- 101.SCH XBRL Taxonomy Extension Schema Document
- 101.CALXBRL Taxonomy Extension Calculation Linkbase Document
- 101.DEF XBRL Taxonomy Extension Definition Linkbase Document
- 101.LAB XBRL Taxonomy Extension Label Linkbase Document
- 101.PRE XBRL Taxonomy Extension Presentation Linkbase Document
- * The exhibits marked by an asterisk are management contracts or compensatory plans or arrangements. The registrant agrees to furnish to the Commission upon request copies of all instruments with respect to long-term debt referred to in Note 11 of the Notes to Consolidated Financial Statements filed as part of Item 8 of this annual report which have not been previously filed or are not filed herewith.

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SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized. MINE SAFETY APPLIANCES COMPANY

February 24, 2014

/S/ WILLIAM M. LAMBERT ByWilliam M. Lambert

President and (Date)

Chief Executive Officer

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

Signature Title Date /S/ JOHN T. RYAN III Director, Chairman of the Board February 24, 2014 John T. Ryan III Director; President and Chief Executive February 24, 2014 /S/ WILLIAM M. LAMBERT William M. Lambert Officer Senior Vice President Finance; /S/ STACY P. MCMAHAN Principal Financial and Accounting February 24, 2014 Stacy P. McMahan Officer /S/ ROBERT A. **BRUGGEWORTH** Director February 24, 2014 Robert A. Bruggeworth /S/ ALVARO GARCIA-TUNON Director February 24, 2014 Alvaro Garcia-Tunon /S/ THOMAS B. HOTOPP Director February 24, 2014 Thomas B. Hotopp /S/ DIANE M. PEARSE Director February 24, 2014 Diane M. Pearse /S/ REBECCA B. ROBERTS Director February 24, 2014 Rebecca B. Roberts /S/ L. EDWARD SHAW, JR. Director February 24, 2014

Director

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L. Edward Shaw, Jr.

Thomas H. Witmer

/S/ THOMAS H. WITMER

February 24, 2014

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SCHEDULE II

MINE SAFETY APPLIANCES COMPANY AND AFFILIATES

VALUATION AND QUALIFYING ACCOUNTS

THREE YEARS ENDED DECEMBER 31, 2013

2013	2012	2011
(In thousands)		
\$7,402	\$7,043	\$9,391
763	1,289	1,148
859	930	3,496
7,306	7,402	7,043
\$3,961	\$2,777	\$4,323
977	1,184	_
_	_	1,546
4,938	3,961	2,777
	(In thousands) \$7,402 763 859 7,306 \$3,961 977	(In thousands) \$7,402 \$7,043 763 1,289 859 930 7,306 7,402 \$3,961 \$2,777 977 1,184 — —

⁽¹⁾ Bad debts written off, net of recoveries.

⁽²⁾ Activity for 2013, 2012 and 2011 includes currency translation gains (losses) of \$(121), \$428 and \$(387), respectively.

⁽³⁾ Activity for 2013, 2012 and 2011 includes currency translation gains (losses) of \$242, \$97 and \$(123), respectively.