

AMPCO PITTSBURGH CORP
Form 10-Q
November 09, 2018

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

QUARTERLY REPORT PURSUANT TO SECTION 13 or 15(d) OF THE SECURITIES EXCHANGE ACT OF
1934

For the quarterly period ended September 30, 2018

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF
1934

For the transition period from to

Commission File Number 1-898

AMPCO-PITTSBURGH CORPORATION

Pennsylvania 25-1117717
(State of (I.R.S. Employer

Incorporation) Identification No.)

726 Bell Avenue, Suite 301

Carnegie, Pennsylvania 15106

(Address of principal executive offices)

(412) 456-4400

(Registrant's telephone number)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter periods that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes No

Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted 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 such files). Yes No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of “large accelerated filer,” “accelerated filer,” “smaller reporting company,” and “emerging growth company” in Rule 12b-2 of the Exchange Act.

Large accelerated filer Accelerated filer Emerging growth company

Non-accelerated filer Smaller reporting company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act

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

On November 2, 2018, 12,494,846 common shares were outstanding.

AMPCO-PITTSBURGH CORPORATION

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PART I – FINANCIAL INFORMATION

AMPCO-PITTSBURGH CORPORATION

CONDENSED CONSOLIDATED BALANCE SHEETS

(UNAUDITED)

(in thousands, except par value)

| | September 30, | December 31, |
|--|---------------|--------------|
| | 2018 | 2017 |
| Assets | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 14,778 | \$ 20,700 |
| Receivables, less allowance for doubtful accounts of \$786 in 2018 and \$962 in 2017 | 85,567 | 86,623 |
| Inventories | 107,202 | 107,561 |
| Insurance receivable – asbestos | 15,000 | 13,000 |
| Current assets held for sale | 7,129 | 0 |
| Other current assets | 11,507 | 12,363 |
| Total current assets | 241,183 | 240,247 |
| Property, plant and equipment, net | 201,670 | 214,980 |
| Insurance receivable – asbestos | 72,331 | 87,342 |
| Deferred income tax assets | 2,490 | 1,590 |
| Investments in joint ventures | 2,175 | 2,175 |
| Intangible assets, net | 9,563 | 11,021 |
| Other noncurrent assets | 6,633 | 8,244 |
| Total assets | \$ 536,045 | \$ 565,599 |
| Liabilities and Shareholders' Equity | | |
| Current liabilities: | | |
| Accounts payable | \$ 51,324 | \$ 47,479 |
| Accrued payrolls and employee benefits | 19,649 | 22,768 |
| Debt – current portion | 46,163 | 19,335 |
| Asbestos liability – current portion | 21,000 | 18,000 |
| Current liabilities held for sale | 278 | 0 |
| Other current liabilities | 29,063 | 37,089 |
| Total current liabilities | 167,477 | 144,671 |
| Employee benefit obligations | 73,099 | 79,750 |
| Asbestos liability | 110,220 | 131,750 |
| Long-term debt | 31,891 | 46,818 |
| Deferred income tax liabilities | 385 | 433 |
| Other noncurrent liabilities | 2,190 | 416 |
| Total liabilities | 385,262 | 403,838 |
| Commitments and contingent liabilities (Note 8) | | |
| Shareholders' equity: | | |

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Common stock – par value \$1; authorized 20,000 shares; issued and outstanding

| | | |
|---|------------|-----------|
| 12,495 shares in 2018 and 12,361 shares in 2017 | 12,495 | 12,361 |
| Additional paid-in capital | 154,650 | 152,992 |
| Retained earnings | 29,888 | 38,348 |
| Accumulated other comprehensive loss | (50,218) | (44,760) |
| Total Ampco-Pittsburgh shareholders' equity | 146,815 | 158,941 |
| Noncontrolling interest | 3,968 | 2,820 |
| Total shareholders' equity | 150,783 | 161,761 |
| Total liabilities and shareholders' equity | \$ 536,045 | \$565,599 |

See Notes to Condensed Consolidated Financial Statements.

AMPCO-PITTSBURGH CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(UNAUDITED)

(in thousands, except per share amounts)

| | Three Months Ended | | Nine Months Ended | |
|--|-----------------------|------------|-----------------------|------------|
| | September 30, 2018 | 2017 | September 30, 2018 | 2017 |
| Net sales | \$112,216 | \$103,886 | \$354,720 | \$317,952 |
| Operating costs and expenses: | | | | |
| Costs of products sold (excluding depreciation and amortization) | 98,408 | 87,346 | 301,741 | 264,179 |
| Selling and administrative | 14,512 | 14,218 | 44,799 | 44,648 |
| Depreciation and amortization | 5,683 | 5,451 | 17,357 | 17,019 |
| Loss on disposal of assets | 298 | 110 | 237 | 109 |
| Total operating expenses | 118,901 | 107,125 | 364,134 | 325,955 |
| Loss from operations | (6,685) | (3,239) | (9,414) | (8,003) |
| Other income (expense): | | | | |
| Investment-related income | 440 | 34 | 507 | 105 |
| Interest expense | (1,082) | (778) | (2,975) | (2,683) |
| Other – net | 1,671 | 276 | 5,022 | (39) |
| | 1,029 | (468) | 2,554 | (2,617) |
| Loss before income taxes and equity income in joint venture | (5,656) | (3,707) | (6,860) | (10,620) |
| Income tax (provision) benefit | (800) | 1,804 | (907) | 1,771 |
| Equity income in joint venture | 0 | 0 | 0 | 535 |
| Net loss | (6,456) | (1,903) | (7,767) | (8,314) |
| Less: Net income attributable to noncontrolling interest | 583 | 299 | 1,325 | 584 |
| Net loss attributable to Ampco-Pittsburgh shareholders | \$(7,039) | \$(2,202) | \$(9,092) | \$(8,898) |
| Net loss per common share attributable to Ampco-Pittsburgh: | | | | |
| Basic | \$(0.56) | \$(0.18) | \$(0.73) | \$(0.72) |
| Diluted | \$(0.56) | \$(0.18) | \$(0.73) | \$(0.72) |
| Cash dividends declared per share | \$0.00 | \$0.00 | \$0.00 | \$0.09 |
| Weighted average number of common shares outstanding: | | | | |
| Basic | 12,494 | 12,361 | 12,432 | 12,320 |
| Diluted | 12,494 | 12,361 | 12,432 | 12,320 |

See Notes to Condensed Consolidated Financial Statements.

AMPCO-PITTSBURGH CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

(UNAUDITED)

(in thousands)

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|---|--|-----------|---------------------------------------|------------|
| | 2018 | 2017 | 2018 | 2017 |
| Net loss | \$(6,456) | \$(1,903) | \$(7,767) | \$(8,314) |
| Other comprehensive (loss) income, net of income tax where applicable: | | | | |
| Adjustments for changes in: | | | | |
| Foreign currency translation | (1,102) | 3,526 | (4,801) | 10,704 |
| Unrecognized employee benefit costs (including effects of foreign currency translation) | 138 | (652) | 417 | (1,773) |
| Unrealized holding gains on marketable securities | 0 | 136 | 0 | 423 |
| Fair value of cash flow hedges | (198) | 217 | (519) | 456 |
| Reclassification adjustments for items included in net loss: | | | | |
| Amortization of unrecognized employee benefit costs | (42) | 945 | 152 | 2,461 |
| Realized gains from sale of marketable securities | 0 | (19) | 0 | (25) |
| Realized losses (gains) from settlement of cash flow hedges | 46 | (150) | (255) | (472) |
| Other comprehensive (loss) income | (1,158) | 4,003 | (5,006) | 11,774 |
| Comprehensive (loss) income | (7,614) | 2,100 | (12,773) | 3,460 |
| Less: Comprehensive income attributable to noncontrolling interest | 794 | 440 | 1,502 | 656 |
| Comprehensive (loss) income attributable to Ampco-Pittsburgh | \$(8,408) | \$1,660 | \$(14,275) | \$2,804 |

See Notes to Condensed Consolidated Financial Statements.

AMPCO-PITTSBURGH CORPORATION

CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(UNAUDITED)

(in thousands)

| | Nine Months Ended September 30, | |
|---|------------------------------------|-------------|
| | 2018 | 2017 |
| Net cash flows used in operating activities | \$(8,194) | \$(15,946) |
| Cash flows from investing activities: | | |
| Purchases of property, plant and equipment | (8,803) | (9,744) |
| Proceeds from sale of investment in joint venture | 0 | 1,000 |
| Purchases of long-term marketable securities | (102) | (83) |
| Proceeds from sale of long-term marketable securities | 247 | 245 |
| Net cash flows used in investing activities | (8,658) | (8,582) |
| Cash flows from financing activities: | | |
| Dividends paid | (35) | (2,236) |
| Deferred financing costs (Note 7) | (477) | 0 |
| Repayment of debt | (132) | (730) |
| Proceeds from Revolving Credit and Security Agreement | 23,000 | 23,339 |
| Payments on Revolving Credit and Security Agreement | (29,500) | (3,000) |
| Proceeds from sale and leaseback financing arrangement (Note 7) | 19,000 | 0 |
| Repayments on sale and leaseback financing arrangement (Note 7) | (141) | 0 |
| Proceeds from credit facility | 0 | 8,795 |
| Payments on credit facility | 0 | (15,941) |
| Net cash flows provided by financing activities | 11,715 | 10,227 |
| Effect of exchange rate changes on cash and cash equivalents | (785) | 1,089 |
| Net decrease in cash and cash equivalents | (5,922) | (13,212) |
| Cash and cash equivalents at beginning of period | 20,700 | 38,579 |
| Cash and cash equivalents at end of period | \$14,778 | \$25,367 |
| Supplemental information: | | |
| Income tax payments | \$1,126 | \$988 |
| Interest payments | \$1,338 | \$956 |
| Non-cash investing activities: | | |
| Purchases of property, plant and equipment included in accounts payable | \$1,161 | \$1,947 |

See Notes to Condensed Consolidated Financial Statements.

AMPCO-PITTSBURGH CORPORATION

NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(UNAUDITED)

(in thousands, except share amounts)

1. Unaudited Condensed Consolidated Financial Statements

The condensed consolidated balance sheet as of September 30, 2018, and the condensed consolidated statements of operations and comprehensive income (loss) for the three and nine months ended September 30, 2018, and 2017, and condensed consolidated statements of cash flows for the nine months ended September 30, 2018, and 2017, have been prepared by Ampco-Pittsburgh Corporation (the "Corporation") without audit. In the opinion of management, all adjustments, consisting of only normal and recurring adjustments necessary to present fairly the financial position, results of operations and cash flows for the periods presented, have been made. The results of operations for the three and nine months ended September 30, 2018, are not necessarily indicative of the operating results expected for the full year.

Certain information and footnote disclosures normally included in the annual financial statements prepared in accordance with accounting principles generally accepted in the United States of America ("US GAAP") have been condensed or omitted.

Recently Implemented Accounting Pronouncements

In May 2017, the Financial Accounting Standards Board (the "FASB") issued ASU 2017-09, Scope of Modification Accounting, which provides guidance about which changes to the terms and conditions of a share-based payment award require an entity to apply modification accounting. The amendment will be applied prospectively to an award modified on or after January 1, 2018. The amended guidance became effective for the Corporation on January 1, 2018, and did not affect its financial position, operating results or liquidity.

In March 2017, the FASB issued ASU 2017-07, Improving the Presentation of Net Periodic Pension Cost and Net Periodic Postretirement Benefit Cost, which requires an employer who offers defined benefit and postretirement benefit plans to report the service cost component of net periodic benefit cost in the same line item or items as other compensation costs arising from services rendered by employees during the period. The other components of net periodic benefit cost are required to be presented in the income statement separately from the service cost component and outside the subtotal of income from operations. The amendment also allows only the service cost component of net periodic benefit cost to be eligible for capitalization, when applicable. The amended guidance does not change the amount of net periodic benefit cost to be recognized, only where it is to be recognized in the income statement. The amended guidance became effective for the Corporation on January 1, 2018, and was applied retrospectively for the presentation of the service cost component and the other components of net periodic pension and other postretirement costs in the income statement. As permitted by the guidance, the Corporation used the amounts disclosed in its pension and other postretirement benefits footnote (Note 6) as the estimate to apply retrospectively. The Corporation has historically capitalized the service cost component of net periodic benefit cost to inventory, when applicable, and will continue to do so prospectively. The guidance did not affect the Corporation's liquidity. The effect of the retrospective guidance on the condensed consolidated statements of operations was as follows:

Three Months Ended September 30,
2017

Reclassification

| | |
|-----------------------|----------|
| Originally for | As |
| Presented ASU 2017-07 | Adjusted |

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| | | | |
|--|----------|-------|-----------|
| Costs of products sold (excluding depreciation and amortization) | \$87,295 | \$ 51 | \$ 87,346 |
| Selling and administrative | 14,243 | (25) | 14,218 |
| Loss from operations | (3,213) | (26) | (3,239) |
| Other – net | 250 | 26 | 276 |
| Other income (expense) | (494) | 26 | (468) |
| Loss before income taxes and equity income in joint venture | (3,707) | 0 | (3,707) |

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| | Nine Months Ended September 30, 2017 | | |
|--|---|-----------------|-------------|
| | Reclassification | | |
| | Originally Presented | for ASU 2017-07 | As Adjusted |
| Costs of products sold (excluding depreciation and amortization) | \$263,975 | \$ 204 | \$264,179 |
| Selling and administrative | 44,444 | 204 | 44,648 |
| Loss from operations | (7,595) | (408) | (8,003) |
| Other – net | (447) | 408 | (39) |
| Other income (expense) | (3,025) | 408 | (2,617) |
| Loss before income taxes and equity income in joint venture | (10,620) | 0 | (10,620) |

In August 2016, the FASB issued ASU 2016-15, Classification of Certain Cash Receipts and Cash Payments, which clarifies guidance on the classification of certain cash receipts and payments in the statement of cash flows. The amended guidance became effective for the Corporation on January 1, 2018, and did not impact the presentation of its cash flow statement, and it did not affect the Corporation's financial position, operating results or liquidity.

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (Topic 606). ASU 2014-09 and its related amendments outline a single comprehensive model to account for revenue from customer contracts and establish principles for reporting information about the nature, amount, timing and uncertainty of revenue and cash flows arising from a company's contracts with customers. In accordance with Topic 606, a company recognizes revenue when control of the promised goods or services is transferred to the customer in an amount that reflects the consideration a company expects to be entitled to receive in exchange for those goods or services. It also requires comprehensive disclosures regarding revenue recognition. The guidance became effective January 1, 2018, and could have been implemented on either a full or modified retrospective basis (cumulative-effect adjustment to January 1, 2018 retained earnings). The Corporation adopted the guidance using the modified retrospective approach and by applying it to those contracts that were not completed as of January 1, 2018. There was, however, no cumulative-effect adjustment to the Corporation's retained earnings as of January 1, 2018, since the new guidance did not change the Corporation's timing of revenue recognition, which continues to be at a point in time. See Note 15 for the additional disclosures.

In January 2016, the FASB issued ASU 2016-01, Recognition and Measurement of Financial Assets and Liabilities, which simplifies the accounting and disclosures related to equity investments. ASU 2016-01 requires entities to carry certain investments in equity securities at fair value with changes in fair value recorded through net income (loss) versus other comprehensive income (loss). ASU 2016-01 does not apply to investments that qualify for the equity method of accounting or result in consolidation of the investee. The guidance became effective for the Corporation on January 1, 2018, and as required, was adopted by means of a cumulative-effect adjustment to retained earnings as of the beginning of 2018, as follows:

| | Retained Earnings | Accumulated Other Comprehensive Loss |
|--|-------------------|--------------------------------------|
| As of January 1, 2018, as originally presented | \$ 38,348 | \$ (44,760) |
| Cumulative effect of ASU 2016-01 | 632 | (632) |
| As of January 1, 2018, as adjusted | \$ 38,980 | \$ (45,392) |

Recently Issued Accounting Pronouncements

In August 2018, the FASB issued ASU 2018-14, Changes to the Disclosure Requirements for Defined Benefit Plans, which modifies the disclosure requirements for defined benefit and other postretirement plans. The amended guidance eliminates certain disclosures associated with accumulated other comprehensive income (loss), plan assets, related parties, and the effects of interest rate basis point changes on assumed health care costs. Additionally, new disclosure requirements have been added to address significant gains and losses related to changes in benefit obligations. The guidance becomes effective for interim and annual periods beginning after December 15, 2020; however, early adoption is permitted. All amendments are required to be adopted on a retrospective basis for all periods presented. The Corporation is currently evaluating the impact the guidance will have on its disclosures. The new guidance will not affect the Corporation's financial position, operating results or liquidity.

In August 2018, the FASB issued ASU 2018-13, Changes to the Disclosure Requirements for Fair Value Measurement, which requires several changes to the hierarchy associated with Level 1, 2 and 3 fair value measurements and the related disclosure requirements. The guidance becomes effective for interim and annual periods beginning after December 15, 2019; however, early adoption is permitted. The Corporation is currently evaluating the impact the guidance will have on its disclosures. The new guidance will not affect the Corporation's financial position, operating results or liquidity.

In August 2017, the FASB issued ASU 2017-12, Derivatives and Hedging, which amends and simplifies existing guidance to allow companies to more accurately present the economic effects of risk management activities in the financial statements. The

amended guidance will be effective for interim and annual periods beginning after December 15, 2018; however, early adoption is permitted. The Corporation is currently evaluating the impact the guidance will have on its financial position and operating results. It will not, however, affect the Corporation's liquidity.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842), which requires lessees to recognize assets and liabilities on the balance sheet for the rights and obligations created by all leases with a term of more than one year. Accounting by lessors will remain similar to existing generally accepted accounting principles. The guidance becomes effective for the Corporation on January 1, 2019. The Corporation is currently evaluating the impact the guidance will have on its financial position, operating results and liquidity.

2. Inventories

At September 30, 2018, and December 31, 2017, approximately 33% and 42% of the inventories were valued on the LIFO method with the remaining inventories valued on the FIFO method. Inventories were comprised of the following:

| | September 30, December 31, | |
|-----------------|----------------------------|------------|
| | 2018 | 2017 |
| Raw materials | \$ 22,113 | \$ 24,249 |
| Work-in-process | 44,459 | 42,840 |
| Finished goods | 22,705 | 24,083 |
| Supplies | 17,925 | 16,389 |
| Inventories | \$ 107,202 | \$ 107,561 |

3. Property, Plant and Equipment

Property, plant and equipment were comprised of the following:

| | September 30, December 31, | |
|---|----------------------------|------------|
| | 2018 | 2017 |
| Land and land improvements | \$ 11,692 | \$ 12,172 |
| Buildings | 66,998 | 68,572 |
| Machinery and equipment | 340,447 | 340,396 |
| Construction-in-process | 6,612 | 5,019 |
| Other | 7,330 | 7,193 |
| | 433,079 | 433,352 |
| Accumulated depreciation and amortization | (231,409) | (218,372) |
| Property, plant and equipment, net | \$ 201,670 | \$ 214,980 |

The majority of the assets of the Corporation, except real property, is pledged as collateral for the Corporation's Revolving Credit and Security Agreement (Note 7). Land and buildings of Union Electric Steel UK Limited ("UES-UK"), equal to approximately \$2,733 (£2,098) at September 30, 2018, are held as collateral by the trustees of the UES-UK defined benefit pension plan (Note 6). The gross value of assets under capital lease and the related accumulated amortization as of September 30, 2018, approximated \$3,465 and \$1,023, respectively, and at

December 31, 2017, approximated \$4,082 and \$1,101, respectively.

4. Intangible Assets

Intangible assets were comprised of the following:

| | September 30, | December 31, |
|--------------------------|---------------|--------------|
| | 2018 | 2017 |
| Customer relationships | \$ 6,271 | \$ 6,543 |
| Developed technology | 4,339 | 4,429 |
| Trade name | 2,507 | 2,696 |
| | 13,117 | 13,668 |
| Accumulated amortization | (3,554) | (2,647) |
| Intangible assets, net | \$ 9,563 | \$ 11,021 |

The value of intangible assets changed between the periods due to the movement of \$177 from intangible assets to current assets held for sale (Note 18) and changes in foreign currency exchange rates used to translate intangible assets from local currency to the U.S. dollar. Amortization expense for the three months ended September 30, 2018, and 2017, was \$300 and \$309, respectively. Amortization expense for the nine months ended September 30, 2018, and 2017, was \$922 and \$908, respectively.

5. Other Current Liabilities

Other current liabilities were comprised of the following:

| | September 30, | December 31, |
|------------------------------|---------------|--------------|
| | 2018 | 2017 |
| Customer-related liabilities | \$ 16,113 | \$ 18,512 |
| Accrued interest payable | 2,743 | 2,697 |
| Accrued sales commissions | 1,995 | 2,301 |
| Other | 8,212 | 13,579 |
| Other current liabilities | \$ 29,063 | \$ 37,089 |

Included in customer-related liabilities are costs expected to be incurred with respect to product warranties and customer deposits. The Corporation provides a limited warranty on its products, known as assurance type warranties, and may issue credit notes or replace products free of charge for valid claims. A warranty is considered an assurance type warranty if it provides the customer with assurance that the product will function as intended. Historically, warranty claims have been insignificant. The Corporation records a provision for product warranties at the time the underlying sale is recorded. The provision is based on historical experience as a percent of sales adjusted for potential claims when a liability is probable and for known claims. Changes in the liability for product warranty claims consisted of the following:

| | Three Months Ended | | Nine Months Ended | |
|---|--------------------|----------|-------------------|----------|
| | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 |
| Balance at beginning of the period | \$10,122 | \$12,117 | \$11,702 | \$11,521 |
| Satisfaction of warranty claims | (982) | (1,169) | (2,616) | (2,889) |
| Provision for warranty claims | 508 | 1,011 | 2,496 | 2,964 |
| Reversal of unneeded provision for warranty claims | (312) | 0 | (1,916) | 0 |
| Other, primarily impact from changes in foreign currency exchange rates | (17) | 328 | (347) | 691 |
| Balance at end of the period | \$9,319 | \$12,287 | \$9,319 | \$12,287 |

Customer deposits represent amounts collected from, or invoiced to, a customer in advance of revenue recognition, and are recorded as an other current liability on the balance sheet. The liability for customer deposits is reversed when the Corporation satisfies its performance obligations and control of the inventory transfers to the customer, typically when title transfers. Performance obligations related to customer deposits are expected to be satisfied in less than one year. Changes in customer deposits consisted of the following:

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| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|--|--|---------|---------------------------------------|---------|
| | 2018 | 2017 | 2018 | 2017 |
| Balance at beginning of the period | \$4,889 | \$7,849 | \$4,573 | \$6,786 |
| Satisfaction of performance obligations | (2,027) | (3,070) | (7,176) | (9,495) |
| Receipt of additional deposits | 1,871 | 1,769 | 7,384 | 9,228 |
| Other, primarily changes in foreign currency exchange rates | (88) | 113 | (136) | 142 |
| Balance at end of the period | \$4,645 | \$6,661 | \$4,645 | \$6,661 |

6. Pension and Other Postretirement Benefits

In connection with the ratification of the collective bargaining agreement for employees of the Union Electric Steel Harmon Creek Steelworkers Location, employee participation in the qualified domestic defined benefit pension plan was frozen effective June 1, 2018. Benefit accruals were replaced with employer contributions to the defined contribution plan equaling a non-elective contribution of 3% of compensation and a matching contribution up to 4% of compensation. The plan freeze resulted in

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a reduction of the liability of \$1,726, using discount rates and other assumptions as of June 1, 2018, and a curtailment loss of \$21.

Contributions were as follows:

| | Nine Months Ended September 30, | |
|--|---------------------------------------|---------|
| | 2018 | 2017 |
| Foreign defined benefit pension plans | \$1,308 | \$1,323 |
| Other postretirement benefits (e.g., net payments) | 880 | 852 |
| U.K. defined contribution pension plan | 270 | 223 |
| U.S. defined contribution plan | 1,991 | 1,788 |

Net periodic pension and other postretirement costs include the following components:

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|------------------------------------|--|---------|---------------------------------------|---------|
| | 2018 | 2017 | 2018 | 2017 |
| U.S. Defined Benefit Pension Plans | | | | |
| Service cost | \$193 | \$417 | \$1,002 | \$1,238 |
| Interest cost | 2,181 | 2,113 | 6,292 | 6,310 |
| Expected return on plan assets | (3,356) | (3,122) | (9,959) | (9,377) |
| Amortization of prior service cost | 10 | 12 | 35 | 39 |
| Amortization of actuarial loss | 308 | 1,145 | 1,163 | 3,083 |
| Curtailment loss | 0 | 0 | 21 | 0 |
| Net benefit (income) cost | \$(664) | \$565 | \$(1,446) | \$1,293 |

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|---------------------------------------|--|-------|---------------------------------------|---------|
| | 2018 | 2017 | 2018 | 2017 |
| Foreign Defined Benefit Pension Plans | | | | |
| Service cost | \$65 | \$81 | \$340 | \$263 |
| Interest cost | 340 | 474 | 1,058 | 1,377 |
| Expected return on plan assets | (629) | (568) | (1,959) | (1,662) |
| Amortization of prior service credit | (82) | 0 | (255) | 0 |
| Amortization of actuarial loss | 182 | 195 | 566 | 562 |
| Net benefit (income) cost | \$(124) | \$182 | \$(250) | \$540 |

| | Three Months Ended September 30, | Nine Months Ended September 30, |
|--|--|---------------------------------------|
|--|--|---------------------------------------|

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| Other Postretirement Benefit Plans | 2018 | 2017 | 2018 | 2017 |
|--------------------------------------|----------|----------|----------|----------|
| Service cost | \$ 114 | \$ 16 | \$ 342 | \$ 369 |
| Interest cost | 124 | 124 | 371 | 428 |
| Amortization of prior service credit | (402) | (401) | (1,205) | (1,205) |
| Amortization of actuarial gain | (58) | (6) | (173) | (18) |
| Net benefit income | \$(222) | \$(267) | \$(665) | \$(426) |

7. Borrowing Arrangements

The Corporation has a five-year Revolving Credit and Security Agreement (the “Credit Agreement”) with a syndicate of banks that expires in May 2021. The Credit Agreement provides for initial borrowings not to exceed \$100,000 with an option to increase the credit facility by an additional \$50,000 at the request of the Corporation and with the approval of the banks. The Credit Agreement includes sublimits for letters of credit not to exceed \$40,000, European borrowings not to exceed \$15,000, and Canadian borrowings not to exceed \$15,000.

In 2018, the banks provided their consent to a sale and leaseback financing transaction, whereby Union Electric Steel Corporation (“UES”) sold certain of its real estate assets to Store Capital Acquisitions, LLC. In connection with providing the consent, the Credit Agreement was amended to increase the interest rate margin by one-half percent per annum for any borrowings, add certain additional reporting requirements regarding beneficial ownership of the Corporation, and update certain schedules to the Credit Agreement. All other material terms, conditions, and covenants with respect to the Credit Agreement remain unchanged.

Availability under the Credit Agreement is based on eligible accounts receivable, inventory and fixed assets. As amended, amounts outstanding under the credit facility bear interest, at the Corporation's option, at either (i) LIBOR plus an applicable margin ranging between 1.75% to 2.25% based on the quarterly average excess availability or (ii) the base rate plus an applicable margin ranging between 0.75% to 1.25% based on the quarterly average excess availability. Additionally, the Corporation is required to pay a commitment fee ranging between 0.25% and 0.375% based on the daily unused portion of the credit facility. As of September 30, 2018, the Corporation had outstanding borrowings under the Credit Agreement of \$13,803 (including £1,000 of European borrowings for its U.K. subsidiary). The average interest rate for the nine months ended September 30, 2018, was approximately 2.77%. Additionally, the Corporation had utilized a portion of the credit facility for letters of credit (Note 8). As of September 30, 2018, remaining availability under the Credit Agreement approximated \$45,000, net of an availability reserve associated with proceeds from a sale and leaseback financing transaction. The availability from this reserve will be used toward the settlement of the promissory notes and interest due in March 2019.

Borrowings outstanding under the Credit Agreement are collateralized by a first priority perfected security interest in substantially all of the assets of the Corporation and its subsidiaries (other than real property). Additionally, the Credit Agreement contains customary affirmative and negative covenants and limitations, including, but not limited to, investments in certain of its subsidiaries, payment of dividends, incurrence of additional indebtedness, upstream distributions from subsidiaries, and acquisitions and divestitures. The Corporation must also maintain a certain level of excess availability. If excess availability falls below the established threshold, or in an event of default, the Corporation will be required to maintain a minimum fixed charge coverage ratio of not less than 1.00 to 1.00. The Corporation was in compliance with the applicable bank covenants as of September 30, 2018.

In September 2018, UES completed a sale and leaseback financing transaction for certain of its real property, including its manufacturing facilities in Valparaiso, Indiana and Burgettstown, Pennsylvania, and its manufacturing facility and corporate headquarters located in Carnegie, Pennsylvania (the "Properties"). Simultaneously with the sale, UES entered into a lease agreement pursuant to which UES would lease the Properties from the buyer. The lease provides for an initial term of 20 years; however, UES may extend the lease for four successive periods of approximately five years each. If fully extended, the lease would expire in September 2058. UES also has the option to repurchase the Properties, which it may exercise in 2025, for a price equal to the greater of (i) their Fair Market Value, of (ii) 115% of Lessor's Total Investment for the Facilities, with such terms defined in the lease agreement.

The sale and leaseback financing transaction does not qualify for sale and leaseback accounting due to UES' ability to repurchase the Properties in 2025. Accordingly, the net asset value of the Properties is not removed and a gain or loss on the sale of the Properties is not recognized. Instead, proceeds are recognized as a debt obligation on the condensed consolidated balance sheet.

Gross proceeds equaled \$19,000. The initial annual payment approximates \$1,644, due monthly in advance, which is included in debt – current portion on the condensed consolidated balance sheet. Annual payments will increase each anniversary date by an amount equal to the lesser of 2% or 1.25% of the change in the consumer price index, as defined in the lease agreement. Deferred financing fees of approximately \$477 were incurred, which are recognized as a reduction of the financing obligation, and are being amortized over seven years.

Outstanding borrowings of the Corporation as of September 30, 2018, and December 31, 2017, consisted of the following:

| | September 30, | December 31, |
|----------------------------------|---------------|--------------|
| | 2018 | 2017 |
| Industrial Revenue Bonds ("IRB") | \$ 13,311 | \$ 13,311 |

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| | | |
|---|-----------|-----------|
| Promissory notes (and interest) | 25,917 | 25,395 |
| Revolving Credit and Security Agreement | 13,803 | 20,349 |
| Sale and leaseback financing obligation | 18,382 | 0 |
| Minority shareholder loan | 4,899 | 5,325 |
| Capital leases | 1,742 | 1,773 |
| Outstanding borrowings | 78,054 | 66,153 |
| Debt - current portion | (46,163) | (19,335) |
| Long-term debt | \$ 31,891 | \$ 46,818 |

8. Commitments and Contingent Liabilities

Outstanding standby and commercial letters of credit as of September 30, 2018, approximated \$21,354, the majority of which serves as collateral for the IRB debt. In addition, the Corporation issued two surety bonds approximating \$4,000 (SEK 33,900) to guarantee certain obligations under a credit insurance arrangement for certain of its foreign pension commitments.

See Note 9 for derivative instruments, Note 16 for litigation and Note 17 for environmental matters.

9. Derivative Instruments

Certain of the Corporation's operations are subject to risk from exchange rate fluctuations in connection with sales in foreign currencies. To minimize this risk, foreign currency sales contracts are entered into which are designated as cash flow or fair value hedges. As of September 30, 2018, approximately \$34,130 of anticipated foreign-denominated sales has been hedged which are covered by fair value contracts settling at various dates through January 2020.

Additionally, certain of the divisions of the Air and Liquid Processing segment are subject to risk from increases in the price of commodities (copper and aluminum) used in the production of inventory. To minimize this risk, futures contracts are entered into which are designated as cash flow hedges. At September 30, 2018, approximately 51% or \$2,682 of anticipated copper purchases over the next 10 months and 56% or \$540 of anticipated aluminum purchases over the next six months are hedged.

The Corporation previously entered into foreign currency purchase contracts to manage the volatility associated with Euro-denominated progress payments to be made for certain machinery and equipment. As of December 31, 2010, all contracts had been settled and the underlying fixed assets were placed in service.

No portion of the existing cash flow or fair value hedges is considered to be ineffective, including any ineffectiveness arising from the unlikelihood of an anticipated transaction to occur. Additionally, no amounts have been excluded from assessing the effectiveness of a hedge.

As of September 30, 2018, the Corporation has purchase commitments covering 47% or \$235 of anticipated natural gas usage for the remainder of 2018 for one of its subsidiaries. The commitments qualify as normal purchases and, accordingly, are not reflected on the condensed consolidated balance sheet. Purchases of natural gas under previously existing commitments approximated \$233 and \$1,051, respectively, for the three and nine months ended September 30, 2018. There were no purchases of natural gas under previously existing commitments for the three and nine months ended September 30, 2017.

The Corporation does not enter into derivative transactions for speculative purposes and, therefore, holds no derivative instruments for trading purposes.

(Losses) gains on foreign exchange transactions included in other income (expense) approximated \$(5) and \$87 for the three months ended September 30, 2018, and 2017, respectively, and \$(1,707) and \$(616) for the nine months ended September 30, 2018, and 2017, respectively.

The location and fair value of the foreign currency sales contracts recorded on the condensed consolidated balance sheets were as follows:

| | | September 30, | December 31, |
|----------------------------|----------------------|---------------|--------------|
| | Location | 2018 | 2017 |
| Fair value hedge contracts | Other current assets | \$ 126 | \$ 961 |

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| | | | |
|-------------------------|------------------------------|-----|--------|
| | Other noncurrent assets | 52 | 0 |
| | Other current liabilities | 736 | 89 |
| | Other noncurrent liabilities | 55 | 1 |
| Fair value hedged items | Receivables | 177 | (269) |
| | Other current assets | 720 | 169 |
| | Other noncurrent assets | 165 | 16 |
| | Other current liabilities | 62 | 907 |
| | Other noncurrent liabilities | 0 | 0 |

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The change in the fair value of the cash flow contracts is recorded as a component of accumulated other comprehensive loss. The balances as of September 30, 2018, and 2017, and the amount recognized as and reclassified from accumulated other comprehensive loss for each of the periods is summarized below. Amounts recognized as comprehensive income (loss) and reclassified from accumulated other comprehensive loss have no tax effect due to deferred income tax assets being fully valued in the related jurisdictions.

| | | | Less | |
|---|---------------|---------------|---------------|---------------|
| | | | | Gain (Loss) |
| | Accumulated | | Reclassified | Accumulated |
| | Other | | from | Other |
| | Comprehensive | Plus | Accumulated | Comprehensive |
| | Income (Loss) | Recognized as | Other | Income (Loss) |
| | Beginning of | Comprehensive | Comprehensive | End of |
| | the Period | Income (Loss) | Loss | the Period |
| Three Months Ended September 30, 2018 | | | | |
| Foreign currency purchase contracts | \$ 230 | \$ 0 | \$ 7 | \$ 223 |
| Futures contracts – copper and aluminum | (113) | (198) | (53) | (258) |
| | \$ 117 | \$ (198) | \$ (46) | \$ (35) |
| Three Months Ended September 30, 2017 | | | | |
| Foreign currency purchase contracts | \$ 203 | \$ 0 | \$ 11 | \$ 192 |
| Futures contracts – copper and aluminum | 265 | 217 | 139 | 343 |
| | \$ 468 | \$ 217 | \$ 150 | \$ 535 |
| Nine Months Ended September 30, 2018 | | | | |
| Foreign currency purchase contracts | \$ 239 | \$ 0 | \$ 16 | \$ 223 |
| Futures contracts – copper and aluminum | 500 | (519) | 239 | (258) |
| | \$ 739 | \$ (519) | \$ 255 | \$ (35) |
| Nine Months Ended September 30, 2017 | | | | |
| Foreign currency purchase contracts | \$ 216 | \$ 0 | \$ 24 | \$ 192 |
| Futures contracts – copper and aluminum | 335 | 456 | 448 | 343 |
| | \$ 551 | \$ 456 | \$ 472 | \$ 535 |

The change in fair value reclassified or expected to be reclassified from accumulated other comprehensive loss to earnings is summarized below. All amounts are pre-tax.

| Location of | Estimated to | | |
|---------------|-----------------|---------------|---------------|
| Gain (Loss) | be Reclassified | Three Months | Nine Months |
| in Statements | in the Next | Ended | Ended |
| of Operations | 12 Months | September 30, | September 30, |
| | | 2018 2017 | 2018 2017 |

| | | | | | | |
|---|-------------------|--------|-------|-------|-------|-------|
| Foreign currency purchase contracts | Depreciation and | | | | | |
| | amortization | \$ 27 | \$ 7 | \$ 11 | \$ 16 | \$ 24 |
| Futures contracts – copper and aluminum | Costs of products | | | | | |
| | sold (excluding | | | | | |
| | depreciation and | | | | | |
| | amortization) | (258) | (53) | 139 | 239 | 448 |

10. Accumulated Other Comprehensive Loss

Net change and ending balances for the various components of accumulated other comprehensive loss as of and for the nine months ended September 30, 2018, and 2017, is summarized below. All amounts are net of tax, where applicable.

| | Foreign | | Unrealized | | Accumulated | |
|---|--------------|--------------|--------------|------------|--------------|-------|
| | Currency | Translation | Unrecognized | Holding | | Other |
| | Adjustments | Benefit | Costs | Securities | Hedges | Loss |
| Balance at January 1, 2018, as originally presented | \$ (11,932) | \$ (34,196) | \$ 632 | \$ 739 | \$ (44,757) | |
| Cumulative effect of ASU 2016-01 | 0 | 0 | (632) | 0 | (632) | |
| Balance at January 1, 2018, adjusted | (11,932) | (34,196) | 0 | 739 | (45,389) | |
| Net Change | (4,801) | 569 | 0 | (774) | (5,006) | |
| Balance at September 30, 2018 | \$ (16,733) | \$ (33,627) | \$ 0 | \$ (35) | \$ (50,395) | |
| Balance at January 1, 2017 | \$ (22,973) | \$ (38,636) | \$ 59 | \$ 551 | \$ (60,999) | |
| Net Change | 10,704 | 688 | 398 | (16) | 11,774 | |
| Balance at September 30, 2017 | \$ (12,269) | \$ (37,948) | \$ 457 | \$ 535 | \$ (49,225) | |

The following summarizes the line items affected on the condensed consolidated statements of operations for components reclassified from accumulated other comprehensive loss. Amounts in parentheses represent credits to net income (loss). There was no income tax benefit or expense associated with the various components of other comprehensive income (loss) for any of the periods, due to the Corporation having a valuation allowance recorded against its deferred income tax assets for the jurisdiction where the expense is recognized. Foreign currency translation adjustments exclude the effect of income taxes since earnings of non-U.S. subsidiaries are deemed to be reinvested for an indefinite period of time. On January 1, 2018, ASU 2016-01 became effective, which requires entities to record changes in fair value for certain investments in equity securities through net income (loss) versus other comprehensive income (loss). Accordingly, no amounts for changes in fair value of the Corporation's marketable securities were reclassified from accumulated other comprehensive loss to net loss for the three or nine months ended September 30, 2018. For the three or nine months ended September 30, 2017, the Corporation reclassified an insignificant amount of realized gains from the sale of marketable securities to the condensed consolidated statement of operations. Prior year amounts for the amortization of unrecognized employee benefit costs have been adjusted to include the effects of ASU 2017-07, which became effective on January 1, 2018.

| | Three Months Ended | | Nine Months Ended | |
|---|--------------------|--------------------|--------------------|--------------------|
| | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Amortization of unrecognized employee benefit costs: | | | | |
| Other income | \$ (42) | \$ 945 | \$ 152 | \$ 2,461 |
| Income tax provision | 0 | 0 | 0 | 0 |
| Net of tax | \$ (42) | \$ 945 | \$ 152 | \$ 2,461 |
| Realized gains/losses from settlement of cash flow hedges: | | | | |
| Depreciation and amortization (foreign currency purchase contracts) | \$ (7) | \$ (11) | \$ (16) | \$ (24) |
| Costs of products sold (excluding depreciation and | 53 | (139) | (239) | (448) |

| | | | | |
|--|-------|-----------|----------|-----------|
| amortization) (futures contracts – copper and aluminum) | | | | |
| Total before income tax | 46 | (150) | (255) | (472) |
| Income tax provision | 0 | 0 | 0 | 0 |
| Net of tax | \$ 46 | \$ (150) | \$ (255) | \$ (472) |

11. Stock-Based Compensation

The Ampco-Pittsburgh Corporation 2016 Omnibus Incentive Plan (the “Incentive Plan”) authorizes the issuance of up to 1,100,000 shares of the Corporation’s common stock for awards under the Incentive Plan. Awards under the Incentive Plan may include incentive non-qualified stock options, stock appreciation rights, restricted shares and restricted stock units, performance awards, other stock-based awards or short-term cash incentive awards. If any award is canceled, terminates, expires or lapses for any reason prior to the issuance of shares, or if shares are issued under the Incentive Plan and thereafter are forfeited to the Corporation, the shares subject to such awards and the forfeited shares will not count against the aggregate number of shares available under the Incentive Plan. Shares tendered or withheld to pay the option exercise price or tax withholding will continue to count against the aggregate number of shares of common stock available for grant under the Incentive Plan. Any shares

repurchased by the Corporation with cash proceeds from the exercise of options will not be added back to the pool of shares available for grant under the Incentive Plan.

The Incentive Plan may be administered by the Board of Directors or the Compensation Committee of the Board of Directors. The Compensation Committee has the authority to determine, within the limits of the express provisions of the Incentive Plan, the individuals to whom the awards will be granted and the nature, amount and terms of such awards.

The Incentive Plan also provides for equity-based awards during any one year to non-employee members of the Board of Directors, based on the grant date fair value, not to exceed \$200. The limit does not apply to shares received by a non-employee director at his or her election in lieu of all or a portion of the director's retainer for board service. In May 2018, 72,170 shares of the Corporation's common stock were granted to the non-employee directors.

Stock-based compensation expense for the three months ended September 30, 2018, and 2017, equaled \$146 and \$644, respectively. Stock-based compensation expense for the nine months ended September 30, 2018, and 2017, equaled \$1,258 and \$1,980, respectively. There was no income tax benefit for any of the periods due to the Corporation having a valuation allowance recorded against its deferred income tax assets for the jurisdiction where the expense is recognized.

12. Fair Value

The Corporation's financial assets and liabilities that are reported at fair value in the condensed consolidated balance sheets as of September 30, 2018, and December 31, 2017, were as follows:

| | Quoted Prices in Active Markets for Identical Inputs (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) | Total |
|-------------------------------------|--|---|--|---------|
| As of September 30, 2018 | | | | |
| Investments | | | | |
| Other noncurrent assets | \$ 4,171 | \$ 0 | \$ 0 | \$4,171 |
| Foreign currency exchange contracts | | | | |
| Other current assets | 0 | 846 | 0 | 846 |
| Other noncurrent assets | 0 | 217 | 0 | 217 |
| Other current liabilities | 0 | 798 | 0 | 798 |
| Other noncurrent liabilities | 0 | 55 | 0 | 55 |
| As of December 31, 2017 | | | | |
| Investments | | | | |
| Other noncurrent assets | \$ 4,204 | \$ 0 | \$ 0 | \$4,204 |
| Foreign currency exchange contracts | | | | |
| Other current assets | 0 | 1,130 | 0 | 1,130 |
| Other noncurrent assets | 0 | 16 | 0 | 16 |
| Other current liabilities | 0 | 996 | 0 | 996 |

| | | | | |
|------------------------------|---|---|---|---|
| Other noncurrent liabilities | 0 | 1 | 0 | 1 |
|------------------------------|---|---|---|---|

The investments held as other noncurrent assets represent assets held in a “Rabbi” trust for the purpose of providing benefits under a non-qualified defined benefit pension plan. The fair value of the investments is based on quoted prices of the investments in active markets. The fair value of foreign currency exchange contracts is determined based on the fair value of similar contracts with similar terms and remaining maturities. The fair value of futures contracts is based on market quotations. The fair value of the variable-rate IRB debt and borrowings under the Credit Agreement approximate their carrying value. The fair value of the promissory notes, due in early 2019, approximates their carrying value. Additionally, the fair value of trade receivables and trade payables approximates their carrying value.

13. Income Taxes

On December 22, 2017, the U.S. federal government enacted the Tax Cuts and Jobs Act (the “Tax Reform”), which became effective as of January 1, 2018. The Tax Reform lowered the U.S. corporate statutory income tax rate from 35% to 21%, implemented a modified territorial tax system and imposed a one-time tax on deemed repatriated earnings of foreign subsidiaries, which the Corporation recorded in the fourth quarter of 2017. Initially, no cash outlay due to the Tax Reform was expected as the Corporation had generated sufficient net operating losses in 2017. However, in 2018, the Internal Revenue Service issued additional guidance allowing the taxpayer to elect to exclude the deemed repatriated earnings from the

computation of net operating losses generated in tax year 2017. The Corporation will avail itself of the election and, as a result, the Corporation will be able to utilize a larger net operating loss carryback, increasing the amount of income tax refund available to it. The Corporation will remain liable for the one-time tax on the Corporation's deemed repatriated earnings, which it plans to pay over a period of eight years, as prescribed in the statute.

In response to the Tax Reform, Staff Accounting Bulletin No. 118 (SAB 118) was issued in 2018 to address the application of US GAAP in situations when a registrant does not have the necessary information available, prepared, or analyzed (including computations) in reasonable detail to complete the accounting for certain income tax effects of the Tax Reform. As of December 31, 2017, in accordance with SAB 118, the Corporation had made a reasonable estimate of the: (i) one-time repatriation transition tax; (ii) increased bonus depreciation for assets placed in service on or after September 27, 2017; and (iii) effects on the Corporation's existing deferred tax balances, but had not completed its full accounting for the tax effects of the Tax Reform. The Corporation anticipates U.S. regulatory agencies may issue further regulations, which may alter this estimate. Accordingly, the Corporation will continue to analyze the Tax Reform and refine its provisional amounts, which could potentially impact the measurement of its tax balances. Any such revisions will be treated in accordance with the measurement period guidance outlined in SAB 118. Additionally, the Corporation is continuing to analyze its earnings and profits in foreign jurisdictions and its deferred tax balances.

In January 2018, the FASB released guidance on the accounting for tax on the global intangible low-taxed income ("GILTI") provisions of the Tax Reform. The GILTI provisions impose a tax on foreign income in excess of a deemed return on tangible assets of foreign corporations. The guidance indicates that either accounting for deferred taxes related to GILTI inclusions or to treating any taxes on GILTI inclusions as period cost are both acceptable methods, subject to an accounting policy election. The Corporation is still evaluating the GILTI provisions and has not yet elected an accounting policy for GILTI.

The final determination of the tax effects of enactment of the Tax Reform will be completed within the measurement period of up to one year from the enactment date as permitted by SAB 118. Any adjustments to provisional amounts that are identified during the measurement period will be recorded in the reporting period in which the adjustment is determined.

14. Business Segments

Presented below are the net sales and (loss) income before income taxes for the Corporation's two business segments. Other expense, including corporate costs, for the three and nine months ended September 30, 2018, includes higher pension and other postretirement benefit income of approximately \$1,300 and \$3,600, respectively, when compared to the three and nine months ended September 30, 2017. Additionally, for the nine months ended September 30, 2018, other expense, including corporate costs, includes the impact of a favorable contractual settlement with a third party of approximately \$2,425. Prior year amounts have been adjusted to include the effects of ASU 2017-07, which became effective on January 1, 2018.

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|-------------------------------------|-------------------------------------|-----------|------------------------------------|-----------|
| | 2018 | 2017 | 2018 | 2017 |
| Net sales: | | | | |
| Forged and Cast Engineered Products | \$88,090 | \$81,679 | \$284,984 | \$251,739 |
| Air and Liquid Processing | 24,126 | 22,207 | 69,736 | 66,213 |
| Total Reportable Segments | \$112,216 | \$103,886 | \$354,720 | \$317,952 |
| (Loss) income before income taxes: | | | | |
| Forged and Cast Engineered Products | \$(5,395) | \$(1,470) | \$(5,983) | \$(2,639) |
| Air and Liquid Processing | 2,965 | 2,419 | 8,972 | 7,780 |

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| | | | | |
|--|------------|------------|------------|-------------|
| Total Reportable Segments | (2,430) | 949 | 2,989 | 5,141 |
| Other expense, including corporate costs | (3,226) | (4,656) | (9,849) | (15,761) |
| Total | \$(5,656) | \$(3,707) | \$(6,860) | \$(10,620) |

15. Revenue

The Forged and Cast Engineered Products segment produces steel rolls for rolling mills (“mill rolls”) and ingot, billet and open-die forged products (“forged engineered products”), principally for the oil and gas industry. The Air and Liquid Processing segment produces custom-engineered finned tube heat exchange coils and related heat transfer products, large custom-designed air handling systems and centrifugal pumps. The Corporation’s contracts with customers can be a purchase order from the customer, combined with an order acknowledgment from the Corporation, a longer-term supply agreement between the buyer and the Corporation, or a similar arrangement deemed to be normal and customary business practice for that particular customer or class of customer (collectively, a sales agreement). Sales agreements typically include a single performance obligation for the manufacturing of product which is satisfied upon transfer of control of the product to the customer.

Transfer of control is assessed based on alternative use of the product manufactured and, under the terms of the sales agreement, an enforceable right to payment for performance to date. Transfer of control, and therefore revenue recognition, occurs when title, ownership and risk of loss pass to the customer. Typically, this occurs when the product is shipped to the customer (i.e., FOB shipping point), delivered to the customer (i.e., FOB destination), or, for foreign sales, in accordance with trading guidelines known as Incoterms. Incoterms are standard trade definitions used in international contracts and are developed, maintained and promoted by the ICC Commission on Commercial Law and Practice. Shipping terms vary across the businesses and typically depend on the product, country of origin and type of transportation (truck or vessel).

The sales price required to be paid by the customer is fixed or determinable from the sales agreement. It is not subject to refund or adjustment, except for a variable-index surcharge provision which is known at the time of shipment and increases or decreases, as applicable, the selling price of a mill roll for corresponding changes in the published index cost of certain raw materials. The variable-index surcharge is recognized as revenue when the corresponding revenue for the inventory is recognized.

Likelihood of collectability is assessed prior to acceptance of an order. In certain circumstances, the Corporation may require a deposit from the customer, a letter of credit, or another form of assurance for payment. An allowance for doubtful accounts is maintained based on historical experience. Payment terms are standard to the industry and generally require payment 30 days after title transfers to the customer.

There are no customer-acceptance provisions other than customer inspection and testing prior to shipment. Post-shipment obligations are insignificant. The Corporation provides assurance type warranties. A warranty that goes beyond ensuring basic functionality is considered a service type warranty, which the Corporation does not provide. Assurance type warranties are not accounted for as separate performance obligations under Topic 606.

In connection with the adoption of Topic 606, as of January 1, 2018, the Corporation elected the following practical expedients:

- to exclude the effects of a significant financing component from the amount of promised consideration when the Corporation expects, at contract inception, that the period between the Corporation's transfer of a promised product to a customer and the customer's payment for the product will be one year or less;
- to exclude any amounts collected from customers for sales and similar taxes from the transaction price;
- to treat incremental costs of obtaining a contract as expense, when incurred, if the amortization period would have been one year or less;
- to account for shipping and handling activities that occur after control of the related good transfers as fulfillment activities instead of assessing such activities as performance obligations;
- to apply the new revenue standard to a portfolio of contracts (or performance obligations) with similar characteristics if the Corporation reasonably expects that the effects on the financial statements of applying the guidance to the portfolio would not differ materially from applying the guidance to the individual contracts (or performance obligations) within that portfolio; and
- to assess whether promised goods or services are performance obligations only if they are material in the context of the contract with the customer.

Net sales and (loss) income before income taxes and equity income in joint venture by geographic area for the three and nine months ended September 30, 2018, and 2017, were as outlined below. When disaggregating revenue, consideration was given to information regularly reviewed by the chief operating decision maker to evaluate the financial performance of the operating segments and make resource allocation decisions.

Net Sales

(Loss) Income Before Income Taxes
and

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| | Three Months Ended | | Nine Months Ended | | Equity Income in Joint Venture | | | |
|---------------|--------------------|-----------|-------------------|-----------|--------------------------------|-----------|-------------------|------------|
| | September 30, | | September 30, | | Three Months Ended | | Nine Months Ended | |
| | 2018 | 2017 | 2018 | 2017 | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 | 2018 | 2017 |
| United States | \$53,713 | \$55,940 | \$177,865 | \$172,032 | \$(3,208) | \$(4,263) | \$(6,730) | \$(14,954) |
| Foreign | 58,503 | 47,946 | 176,855 | 145,920 | (2,448) | 556 | (130) | 4,334 |
| | \$112,216 | \$103,886 | \$354,720 | \$317,952 | \$(5,656) | \$(3,707) | \$(6,860) | \$(10,620) |

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Substantially all of the foreign net sales for each of the periods are attributable to the Forged and Cast Engineered Products segment. Net sales by product line for the three and nine months ended September 30, 2018, and 2017, were as follows:

| | Three Months Ended | | Nine Months Ended | |
|----------------------------|-----------------------|-----------|-----------------------|-----------|
| | September 30, 2018 | 2017 | September 30, 2018 | 2017 |
| Forged and cast mill rolls | \$64,983 | \$63,677 | \$207,398 | \$189,649 |
| Forged engineered products | 23,107 | 18,002 | 77,586 | 62,090 |
| Heat exchange coils | 7,132 | 8,279 | 20,858 | 21,714 |
| Centrifugal pumps | 9,790 | 7,522 | 27,554 | 27,682 |
| Air handling systems | 7,204 | 6,406 | 21,324 | 16,817 |
| | \$112,216 | \$103,886 | \$354,720 | \$317,952 |

16. Litigation

The Corporation and its subsidiaries are involved in various claims and lawsuits incidental to their businesses and are also subject to asbestos litigation as described below. In February 2017, the Corporation, its indirect subsidiary Akers National Roll Company, as well as the Akers National Roll Company Health & Welfare Benefits Plan were named as defendants in a class action complaint filed in the United States District Court for the Western District of Pennsylvania, where the plaintiffs (currently retired former employees of Akers National Roll Company and the United Steel, Paper and Forestry, Rubber, Manufacturing, Energy, Allied Industrial, and Service Workers International Union, AFL-CIO) alleged that the defendants breached collective bargaining agreements and violated the benefit plan by modifying medical benefits of the plaintiffs and similarly situated retirees. The defendants moved to dismiss the case, and plaintiffs petitioned the court to compel arbitration. On June 13, 2017, the District Court compelled arbitration and denied the defendants' motion to dismiss as moot. Defendants appealed this decision to the Third Circuit Court of Appeals on June 21, 2017. The Third Circuit Court of Appeals reversed the District Court's decision to compel arbitration on August 29, 2018. The plaintiffs filed a petition for a rehearing, which was denied. The parties will proceed to litigating the merits of the case at the United States District Court for the Western District of Pennsylvania. While no assurance can be given as to the ultimate outcome of this matter, the Corporation believes that the final resolution of this action will not have a material adverse effect on our results of operations, financial position, liquidity or capital resources.

Asbestos Litigation

Claims have been asserted alleging personal injury from exposure to asbestos-containing components historically used in some products manufactured by predecessors of Air & Liquid ("Asbestos Liability"). Air & Liquid, and in some cases the Corporation, are defendants (among a number of defendants, often in excess of 50) in cases filed in various state and federal courts.

Asbestos Claims

The following table reflects approximate information about the claims for Asbestos Liability against the subsidiaries and the Corporation for the nine months ended September 30, 2018, and 2017 (claims not in thousands):

| Nine Months Ended September 30, 2018 | | 2017 |
|---|--|------|
|---|--|------|

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| | | |
|--|----------|----------|
| Total claims pending at the beginning of the period | 6,907 | 6,618 |
| New claims served | 970 | 1,037 |
| Claims dismissed | (1,030) | (627) |
| Claims settled | (304) | (283) |
| Total claims pending at the end of the period ⁽¹⁾ | 6,543 | 6,745 |
| Gross settlement and defense costs (in 000's) | \$18,530 | \$16,518 |
| Avg. gross settlement and defense costs per claim | | |
| resolved (in 000's) | \$13.89 | \$18.15 |

(1)Included as “open claims” are approximately 678 and 480 claims, respectively, as of September 30, 2018, and 2017, classified in various jurisdictions as “inactive” or transferred to a state or federal judicial panel on multi-district litigation, commonly referred to as the MDL.

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A substantial majority of the settlement and defense costs reflected in the above table was reported and paid by insurers. Because claims are often filed and can be settled or dismissed in large groups, the amount and timing of settlements, as well as the number of open claims, can fluctuate significantly from period to period.

Asbestos Insurance

The Corporation and Air & Liquid are parties to a series of settlement agreements (“Settlement Agreements”) with insurers that have coverage obligations for Asbestos Liability (the “Settling Insurers”). Under the Settlement Agreements, the Settling Insurers accept financial responsibility, subject to the terms and conditions of the respective agreements, including overall coverage limits, for pending and future claims for Asbestos Liability. The Settlement Agreements encompass the substantial majority of insurance policies that provide coverage for claims for Asbestos Liability.

The Settlement Agreements include acknowledgements that Howden North America, Inc. (“Howden”) is entitled to coverage under policies covering Asbestos Liability for claims arising out of the historical products manufactured or distributed by Buffalo Forge, a former subsidiary of the Corporation (the “Products”). The Settlement Agreements do not provide for any prioritization on access to the applicable policies or any sublimits of liability as to Howden or the Corporation and Air & Liquid, and, accordingly, Howden may access the coverage afforded by the Settling Insurers for any covered claim arising out of a Product. In general, access by Howden to the coverage afforded by the Settling Insurers for the Products will erode coverage under the Settlement Agreements available to the Corporation and Air & Liquid for Asbestos Liability.

Asbestos Valuations

In 2006, the Corporation retained Hamilton, Rabinovitz & Associates, Inc. (“HR&A”), a nationally recognized expert in the valuation of asbestos liabilities, to assist the Corporation in estimating the potential liability for pending and unasserted future claims for Asbestos Liability. Based on this analysis, the Corporation recorded a reserve for Asbestos Liability claims pending or projected to be asserted through 2013 as of December 31, 2006. HR&A’s analysis has been periodically updated since that time. Most recently, the HR&A analysis was updated in 2016, and additional reserves were established by the Corporation as of December 31, 2016, for Asbestos Liability claims pending or projected to be asserted through 2026. The methodology used by HR&A in its projection in 2016 of the operating subsidiaries’ liability for pending and unasserted potential future claims for Asbestos Liability, which is substantially the same as the methodology employed by HR&A in prior estimates, relied upon and included the following factors:

HR&A’s interpretation of a widely accepted forecast of the population likely to have been exposed to asbestos;

- epidemiological studies estimating the number of people likely to develop asbestos-related diseases;

HR&A’s analysis of the number of people likely to file an asbestos-related injury claim against the subsidiaries and the Corporation based on such epidemiological data and relevant claims history from January 1, 2014, to September 9, 2016;

an analysis of pending cases, by type of injury claimed and jurisdiction where the claim is filed;

an analysis of claims resolution history from January 1, 2014, to September 9, 2016, to determine the average settlement value of claims, by type of injury claimed and jurisdiction of filing; and

an adjustment for inflation in the future average settlement value of claims, at an annual inflation rate based on the Congressional Budget Office’s ten year forecast of inflation.

Using this information, HR&A estimated in 2016 the number of future claims for Asbestos Liability that would be filed through the year 2026, as well as the settlement or indemnity costs that would be incurred to resolve both pending and future unasserted claims through 2026. This methodology has been accepted by numerous courts.

In conjunction with developing the aggregate liability estimate referenced above, the Corporation also developed an estimate of probable insurance recoveries for its Asbestos Liabilities. In developing the estimate, the Corporation

considered HR&A's projection for settlement or indemnity costs for Asbestos Liability and management's projection of associated defense costs, as well as a number of additional factors. These additional factors included the Settlement Agreements then in effect, policy exclusions, policy limits, policy provisions regarding coverage for defense costs, attachment points, prior impairment of policies and gaps in the coverage, policy exhaustions, insolvencies among certain of the insurance carriers, and the nature of the underlying claims for Asbestos Liability asserted against the subsidiaries and the Corporation as reflected in the Corporation's asbestos claims database, as well as estimated erosion of insurance limits on account of claims against Howden arising out of the Products. In addition to consulting with the Corporation's outside legal counsel on these insurance matters, the Corporation consulted with a nationally recognized insurance consulting firm it retained to assist the Corporation with certain policy allocation matters that also are among the several factors considered by the Corporation when analyzing potential recoveries from relevant historical insurance for Asbestos Liabilities. Based upon all of the factors considered by the Corporation, and taking into account the Corporation's analysis of publicly available information regarding the credit-worthiness of various

insurers, the Corporation estimated the probable insurance recoveries for Asbestos Liability and defense costs through 2026. Although the Corporation believes that the assumptions employed in the insurance valuation were reasonable and previously consulted with its outside legal counsel and insurance consultant regarding those assumptions, there are other assumptions that could have been employed that would have resulted in materially lower insurance recovery projections.

Based on the analyses described above, the Corporation's reserve at December 31, 2016, for the total costs, including defense costs, for Asbestos Liability claims pending or projected to be asserted through 2026, was \$171,181 of which approximately 70% was attributable to settlement costs for unasserted claims projected to be filed through 2026 and future defense costs. The reserve at September 30 2018, was \$131,220. It is reasonably possible that the Corporation will incur additional charges for Asbestos Liability and defense costs in excess of the amounts currently reserved.

The Corporation's receivable at December 31, 2016, for insurance recoveries attributable to the claims for which the Corporation's Asbestos Liability reserve has been established, including the portion of incurred defense costs covered by the Settlement Agreements in effect through December 31, 2016, and the probable payments and reimbursements relating to the estimated indemnity and defense costs for pending and unasserted future Asbestos Liability claims, was \$115,945 (\$87,331 at September 30, 2018).

The following table summarizes activity relating to insurance recoveries.

| | Nine Months Ended September 30, | |
|---|------------------------------------|------------|
| | 2018 | 2017 |
| Insurance receivable – asbestos, beginning of the year | \$ 100,342 | \$ 115,945 |
| Settlement and defense costs paid by insurance carriers | (13,011) | (12,054) |
| Insurance receivable – asbestos, end of the period | \$ 87,331 | \$ 103,891 |

The insurance receivable recorded by the Corporation does not assume any recovery from insolvent carriers and a substantial majority of the insurance recoveries deemed probable is from insurance companies rated A – (excellent) or better by A.M. Best Corporation. There can be no assurance, however, that there will not be further insolvencies among the relevant insurance carriers, or that the assumed percentage recoveries for certain carriers will prove correct. The difference between insurance recoveries and projected costs is not due to exhaustion of all insurance coverage for Asbestos Liability. The Corporation and the subsidiaries have substantial additional insurance coverage which the Corporation expects to be available for Asbestos Liability claims and defense costs that the subsidiaries and it may incur after 2026. However, this insurance coverage also can be expected to have gaps creating significant shortfalls of insurance recoveries against claims expense, which could be material in future years.

The amounts recorded by the Corporation for Asbestos Liabilities and insurance receivables rely on assumptions that are based on currently known facts and strategy. The Corporation's actual expenses or insurance recoveries could be significantly higher or lower than those recorded if assumptions used in the Corporation's or HR&A's calculations vary significantly from actual results. Key variables in these assumptions are identified above and include the number and type of new claims to be filed each year, the average cost of disposing of each such new claim, average annual defense costs, compliance by relevant parties with the terms of the Settlement Agreements, the resolution of remaining coverage issues with insurance carriers, and the solvency risk with respect to the relevant insurance carriers. Other factors that may affect the Corporation's Asbestos Liability and ability to recover under its insurance policies include uncertainties surrounding the litigation process from jurisdiction to jurisdiction and from case to case, reforms that may be made by state and federal courts, and the passage of state or federal tort reform legislation.

The Corporation intends to evaluate its estimated Asbestos Liability and related insurance receivables as well as the underlying assumptions on a regular basis to determine whether any adjustments to the estimates are required, with

the next valuation to be completed in the latter part of 2018. Due to the uncertainties surrounding asbestos litigation and insurance, these regular reviews may result in the Corporation incurring future charges; however, the Corporation is currently unable to estimate such future charges. Adjustments, if any, to the Corporation's estimate of its recorded Asbestos Liability and/or insurance receivables could be material to operating results for the periods in which the adjustments to the liability or receivable are recorded, and to the Corporation's liquidity and consolidated financial position.

17. Environmental Matters

The Corporation is currently performing certain remedial actions in connection with the sale of real estate previously owned and periodically incurs costs to maintain compliance with environmental laws and regulations. Environmental exposures are difficult to assess and estimate for numerous reasons, including lack of reliable data, the multiplicity of possible solutions, the years of remedial and monitoring activity required, and identification of new sites. In the opinion of management, the potential liability for environmental compliance measures of approximately \$330 at September 30, 2018, is considered adequate based on information known to date.

18. Subsequent Event

On October 31, 2018, the Corporation sold certain net assets of the Vertical Seal division of Akers National Roll Company, a subsidiary of the Corporation, to Roser Technologies, Inc. and WIR II, LLC for approximately net book value. As part of the Forged and Cast Engineered Products segment, Vertical Seal manufactured custom-designed parts and provided specialty services to rolling mill customers located throughout North America. The asset held for sale criteria as set forth in ASC 360, Property, Plant and Equipment, were met as of September 30, 2018; accordingly, the assets and liabilities of Vertical Seal have been presented separately as current assets held for sale and current liabilities held for sale in the accompanying condensed consolidated balance sheet. The sale of Vertical Seal does not qualify as a discontinued operation as it does not represent a strategic shift that has (or will have) a major effect on the Corporation's operations and financial results.

ITEM 2 – MANAGEMENT’S DISCUSSION AND ANALYSIS OF
FINANCIAL CONDITION AND RESULTS OF OPERATIONS

(in thousands, except share and per share amounts)

Executive Overview

Ampco-Pittsburgh Corporation and its subsidiaries (the “Corporation”) manufacture and sell highly engineered, high-performance specialty metal products and customized equipment utilized by industry throughout the world. We operate in two business segments – the Forged and Cast Engineered Products segment and the Air and Liquid Processing segment.

Forged and Cast Engineered Products

The Forged and Cast Engineered Products segment produces steel rolls for rolling mills (“mill rolls”) as well as ingot, billet and open-die forged products (“forged engineered products”). Mill rolls can be either forged mill rolls or cast mill rolls. Forged mill rolls are used mainly for cold rolling by producers of steel, aluminum and other metals. Cast mill rolls are used typically for hot and cold strip mills, medium/heavy section mills and plate mills. Forged engineered products are used in the oil and gas industry and the aluminum and plastic extrusion industries. The segment has operations in the United States, England, Sweden, Slovenia, Canada and an equity interest in three joint venture companies in China. Collectively, the segment primarily competes with European, Asian and North and South American companies in both domestic and foreign markets and distributes a significant portion of its products through sales offices located throughout the world.

The Forged and Cast Engineered Products segment had been operating at levels significantly below capacity and, in April 2017, we temporarily idled a portion of one of our cast roll plants. With respect to the roll market, the market conditions in the United States and Europe have improved as protectionist acts have financially strengthened our customer base. However, recent tariffs imposed on steel ingots from Canada continue to adversely impact our Canadian operations and has impacted the cost structure of our forged engineered products. The Corporation, however, is continuing to seek relief through available government channels. With respect to the oil and gas market, while demand for product is typically correlated to the market price of oil and gas, which remains elevated, order intake has slowed due to inventory adjustments in the supply chain.

Air and Liquid Processing

The Air and Liquid Processing segment includes Aerofin, Buffalo Air Handling and Buffalo Pumps, all divisions of Air & Liquid Systems Corporation (“Air & Liquid”), a wholly owned subsidiary of the Corporation. Aerofin produces custom-engineered finned tube heat exchange coils and related heat transfer products for a variety of industries including OEM/commercial, nuclear power generation and industrial manufacturing. Buffalo Air Handling produces large custom-designed air handling systems for institutional (e.g., hospital, university), pharmaceutical and general industrial building markets. Buffalo Pumps manufactures centrifugal pumps for the fossil-fuel power generation, marine defense and industrial refrigeration industries. The segment has operations in Virginia and New York with headquarters in Carnegie, Pennsylvania. The segment distributes a significant portion of its products through a common independent group of sales offices located throughout the United States and Canada.

For the Air and Liquid Processing segment, business activity in the specialty centrifugal pump industry has been negatively impacted by a decline in activity in the fossil-fueled power generation market, partially offset by increased activity in the marine defense market. For the heat exchanger business, there are early signs of growth in the OEM/industrial market. Additionally, demand for custom air handling systems remains steady although competitive pricing pressures continue. The focus for this segment is to grow revenues, increase margins, strengthen engineering

and manufacturing capabilities, and continue to improve the sales distribution network.

Consolidated Results of Operations for the Three and Nine Months Ended September 30, 2018 and 2017

Net sales were \$112,216 and \$103,886, and \$354,720 and \$317,952, for the three and nine months ended September 30, 2018, and 2017, respectively. Backlog approximated \$355,924 at September 30, 2018, versus \$326,379 as of December 31, 2017, and \$331,639 at September 30, 2017. A discussion of sales and backlog for our two segments is included below.

Costs of products sold, excluding depreciation and amortization, as a percentage of net sales was higher for the three and nine months ended September 30, 2018, when compared to the three and nine months ended September 30, 2017. The increase is primarily due to unabsorbed costs for our Canadian operations which is being adversely affected by tariffs, loss of a key customer due to a plant closure, and lower margins due to product mix. While our other forged and cast operations are being impacted by lower production levels, a higher volume of shipments and improved pricing helped to offset the impact.

Selling and administrative expenses were comparable for the three and nine months ended September 30, 2018, and 2017. The current year-to-date period benefitted from lower employee-related costs, research and development expense and corporate-related costs offset by higher commissions associated with the higher level of sales. By comparison, the prior year-to-date period included proceeds from the recovery of a portion of a trade receivable associated with a customer in bankruptcy.

Loss from operations for the three months ended September 30, 2018, and 2017, approximated \$6,685 and \$3,239, and \$9,414 and \$8,003 for the nine months ended September 30, 2018, and 2017, respectively. A discussion of operating results for our two segments is included below.

Forged and Cast Engineered Products. Sales for the Forged and Cast Engineered Products segment for the three and nine months ended September 30, 2018, increased 7.8% and 13.2%, respectively, compared to the same periods of the prior year. The current year periods benefitted from higher sales of mill rolls and forged engineered products. While sales of frac blocs declined for each of the periods, primarily due to excess inventory in the supply chain, and certain export product from our Canadian operations was negatively impacted by tariffs imposed by the United States on imports of steel products, sales of other forged engineered products, primarily within Canada, increased. Operating results for the three and nine months ended September 30, 2018, declined compared to the same periods of the prior year, particularly for our Canadian operations which have been affected by the tariffs and changes in product mix. Segment results were also negatively impacted by unabsorbed costs, higher operating costs and, particularly for the third quarter, equipment maintenance issues. The prior year-to-date period includes proceeds of \$1,322 for recovery of a portion of a trade receivable associated with a customer in bankruptcy. Backlog approximated \$306,489 at September 30, 2018, against \$285,941 as of December 31, 2017, and \$284,285 at September 30, 2017. Backlog for mill rolls increased at September 30, 2018, when compared to each of the periods due to improved demand and pricing. By comparison, backlog for forged engineered products declined at September 30, 2018, from the earlier periods as a result of excess inventory in the oil and gas supply chain. Approximately \$190,600 of the current backlog is expected to ship after 2018.

Air and Liquid Processing. Net sales for the three and nine months ended September 30, 2018, improved against the same periods of the prior year. Specifically, sales of air handling units for each of the current year periods exceeded the same periods of the prior year as a result of improved order intake. Sales of centrifugal pumps for the quarter benefitted from a higher volume of shipments to U.S. Navy shipbuilders bringing year-to-date sales in line with the comparable prior year period. Sales of heat exchange coils continue to be adversely impacted by a lower volume of shipments to the nuclear and fossil-fueled power generation market. Operating income for the segment for the current year periods improved when compared to the same periods of the prior year due to a higher level of sales and product mix. Backlog approximated \$49,435 at September 30, 2018, against \$40,438 as of December 31, 2017, with each of the product lines benefiting from higher order intake. Backlog at the current period end was slightly better than a year ago due to a higher backlog for air handling units. Approximately \$27,532 of the current backlog is expected to ship after 2018.

Investment-related income for the three and nine months ended September 30, 2018, includes a dividend of approximately \$400 from the Corporation's U.K./Chinese cast roll joint venture company. No dividends were received in 2017.

Interest expense for the current year periods exceeded the same periods of the prior year due to increased borrowings under our revolving credit facility. Higher interest expense for the current year-to-date period was partially offset by interest, fees and early termination costs incurred in the prior year associated with the repayment of debt assumed in connection with a 2016 acquisition.

Other income (expense) approximated \$1,671 and \$276 for the three months ended September 30, 2018, and 2017, and \$5,022 and \$(39) for the nine months ended September 30, 2018, and 2017 respectively. The quarter-over-quarter improvement is attributable principally to higher pension and other postretirement benefit income of approximately \$1,300. The year-to-date improvement is primarily due to a contract settlement with a third party of approximately \$2,425 and higher pension and other postretirement benefit income of approximately \$3,600. The balance of the change between the periods is attributable to fluctuations in foreign exchange gains and losses.

Income tax (provision) benefit approximated \$(800) and \$1,804 for the three months ended September 30, 2018, and 2017, and \$(907) and \$1,771 for the nine months ended September 30, 2018, and 2017, respectively. The income tax provision for the current year periods includes income taxes associated with our profitable operations. An income tax benefit is not able to be recognized on losses of certain of our entities since they remain in a three-year cumulative loss position. The income tax provision for the nine months ended September 30, 2018, also includes: (i) a \$1,242 benefit from the release of a valuation allowance previously established against the deferred income tax assets of one of our foreign subsidiaries on the basis that it was “more likely than not” the deferred income tax assets would be realized, (ii) a benefit for the carryback of additional 2017 tax losses of \$986, and (iii) a refund of AMT credits of \$433. The additional benefit was partially offset by recognition of a one-time tax on the deemed repatriation of previously untaxed foreign earnings of approximately \$2,369. Specifically, in the first quarter of 2018, the Internal Revenue Service issued additional guidance with respect to certain provisions of the Tax Cuts and Jobs Act (the “Tax Reform”), which was enacted on December 22, 2017. The additional guidance allows a taxpayer to exclude the deemed repatriated earnings from the computation of net operating losses generated in tax year 2017 and, instead, record a one-time tax charge in tax year 2018. Since we intend to avail ourselves of the election, we recognized the additional refunds and recorded the one-time tax charge.

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Net loss and earnings per common share for the three and nine months ended September 30, 2018, equaled \$(7,039), or \$(0.56) per common share, and \$(9,092), or \$(0.73) per common share, respectively. Net loss and earnings per common share for the three and nine months ended September 30, 2017, equaled \$(2,202), or \$(0.18) per common share, and \$(8,898), or \$(0.72) per common share, respectively.

Liquidity and Capital Resources

Net cash flows used in operating activities decreased for the nine months ended September 30, 2018, when compared to the nine months ended September 30, 2017. The improvement is principally due to a reduction in trade working capital in the current year period for our forged engineered products due to a decline in business activity in 2018.

Net cash flows used in investing activities were comparable for the nine months ended September 30, 2018, and 2017. While capital expenditures for 2018 are less than the same period for 2017, the prior year period includes proceeds from the sale of a portion of our interest in a Chinese forged roll joint venture. As of September 30, 2018, commitments for future capital expenditures approximated \$2,000 which is expected to be spent over the next 12-18 months.

Net cash flows provided by financing activities were comparable for the nine months ended September 30, 2018, and 2017. During the current year period, we completed a sale and leaseback financing transaction for \$19,000. The majority of the proceeds were used to repay borrowings under our revolving credit facility. By comparison, a portion of our borrowings under the credit facility in 2017 were used to repay debt assumed in connection with a 2016 acquisition. Additionally, net cash flows provided by financing activities for the nine months ended September 30, 2017, included payment of dividends which were subsequently suspended in June 2017. Dividends paid in 2018 represent dividends paid on restricted stock issued prior to June 2017 that vested in 2018.

As a result of the above, cash and cash equivalents decreased by \$5,922 in 2018, and ended the period at \$14,778 (of which approximately \$10,027 is held by foreign operations) in comparison to \$20,700 at December 31, 2017 (of which approximately \$15,809 was held by foreign operations). Cash held by our foreign operations is considered to be permanently reinvested; accordingly, a provision for estimated local and withholding tax has not been made. If we were to remit any foreign earnings to the U.S., the estimated tax impact would be insignificant.

Funds on hand, funds generated from future operations and availability under our revolving credit facility are expected to be sufficient to finance our operational and capital expenditure requirements and to repay our financial obligations. As of September 30, 2018, remaining availability under the revolving credit facility approximated \$45,000, net of an availability reserves associated with the proceeds from the sale and leaseback financing transaction. The availability from this reserve will be used toward the settlement of promissory notes and interest due in March 2019. While the revolving credit agreement limits the amount of distributions upstream, we have not historically relied on or have been dependent on distributions from our subsidiaries and are not expected to be in the future.

Litigation and Environmental Matters

See Notes 16 and 17 to the condensed consolidated financial statements.

Critical Accounting Pronouncements

The Corporation's critical accounting policies, as summarized in its Annual Report on Form 10-K for the year ended December 31, 2017, remain unchanged.

Recently Issued Accounting Pronouncements

See Note 1 to the condensed consolidated financial statements.

Forward-Looking Statements

The Private Securities Litigation Reform Act of 1995 (the “Act”) provides a safe harbor for forward-looking statements made by or on our behalf. Management’s Discussion and Analysis of Financial Condition and Results of Operation and other sections of the Form 10-Q as well as the condensed consolidated financial statements and notes thereto may contain forward-looking statements that reflect our current views with respect to future events and financial performance. All statements in this document other than statements of historical fact are statements that are, or could be, deemed “forward-looking statements” within the meaning of the Act. In this document, statements regarding future financial position, sales, costs, earnings, cash flows, other measures of results of operations, capital expenditures or debt levels and plans, objectives, outlook, targets, guidance or goals are forward-looking statements. Words such as “may,” “intend,” “believe,” “expect,” “anticipate,” “estimate,” “project,” “forecast” and other terms of similar meaning that indicate future events and trends are also generally intended to identify forward looking statements. Forward-looking statements speak only as of the date on which such statements are made, are not guarantees of future performance or expectations, and involve risks and uncertainties. For us, these risks and uncertainties include, but are not limited to, those described under Item 1A, Risk Factors, to Part I

of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2017. In addition, there may be events in the future that we are not able to predict accurately or control which may cause actual results to differ materially from expectations expressed or implied by forward-looking statements. Except as required by applicable law, we assume no obligation, and disclaim any obligation, to update forward-looking statements whether as a result of new information, events or otherwise.

ITEM 3 – QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

There were no material changes in the Corporation's exposure to market risk from December 31, 2017.

ITEM 4 – CONTROLS AND PROCEDURES

- (a) Disclosure controls and procedures. An evaluation of the effectiveness of the Corporation's disclosure controls and procedures as of the end of the period covered by this report was carried out under the supervision, and with the participation, of management, including the principal executive officer and principal financial officer. Disclosure controls and procedures are defined under Securities and Exchange Commission ("SEC") rules as controls and other procedures that are designed to ensure that information required to be disclosed by a company in the reports that it files under the Exchange Act is recorded, processed, summarized and reported within the required time periods. Disclosure controls and procedures include, without limitation, controls and procedures designed to ensure that information required to be disclosed by an issuer in the reports that it files or submits under the Exchange Act is accumulated and communicated to the issuer's management, including its principal executive and principal financial officers, or persons performing similar functions, as appropriate, to allow timely decisions regarding required disclosure. Based on that evaluation, the Corporation's management, including the principal executive officer and principal financial officer, has concluded that the Corporation's disclosure controls and procedures were effective as of September 30, 2018.
- (c) Changes in Internal Control. There has been no change in the Corporation's internal control over financial reporting identified in connection with the evaluation required by paragraph (d) of Rules 13a-15 or 15d-15 under the Securities Exchange Act of 1934 that occurred during our last fiscal quarter that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

PART II – OTHER INFORMATION

AMPCO-PITTSBURGH CORPORATION

Item 1 Legal Proceedings

The information contained in Note 16 to the condensed consolidated financial statements (Litigation) is incorporated herein by reference.

Item 1A Risk Factors

There are no material changes to the Risk Factors contained in Item 1A to Part I of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2017.

Items 2-5 None

Item 6 Exhibits

- (10.1) Master Lease Agreement between Union Electric Steel Corporation and Store Capital Acquisitions, LLC, dated September 28, 2018, filed herewith.
- (10.2) Unconditional Guaranty of Payment and Performance between Ampco-Pittsburgh Corporation and Store Capital Acquisitions, LLC, dated September 28, 2018, filed herewith.
- (10.3) Third Amendment to the Revolving Credit and Security Agreement, dated September 28, 2018, by and among Ampco-Pittsburgh Corporation and PNC Bank, National Association, as administrative agent, and certain lenders, guarantors and other agents party thereto, filed herewith.
- (31.1) Certification of Principal Executive Officer pursuant to Section 302 of The Sarbanes-Oxley Act of 2002.
- (31.2) Certification of Principal Financial Officer pursuant to Section 302 of The Sarbanes-Oxley Act of 2002.
- (32.1) Certification of Principal Executive Officer pursuant to Section 906 of The Sarbanes-Oxley Act of 2002.
- (32.2) Certification of Principal Financial Officer pursuant to Section 906 of The Sarbanes-Oxley Act of 2002.
- (101) Interactive Data File (XBRL)

SIGNATURES

Pursuant to the requirements 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.

AMPCO-PITTSBURGH CORPORATION

DATE: November 9, 2018 BY: /s/ J. Brett McBrayer
J. Brett McBrayer
Director and Chief Executive Officer

DATE: November 9, 2018 BY: /s/ Michael G. McAuley
Michael G. McAuley
Senior Vice President, Chief Financial Officer and Treasurer