

AMPCO PITTSBURGH CORP  
Form 10-Q  
August 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 June 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)

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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 and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T during the preceding 12 months (or for such shorter period that the registrant was required to submit and post 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 August 2, 2018, 12,491,487 common shares were outstanding.

AMPCO-PITTSBURGH CORPORATION

INDEX

	Page No.
Part I – Financial Information:	
Item 1 – Financial Statements (Unaudited)	
<u>Condensed Consolidated Balance Sheets – June 30, 2018 and December 31, 2017</u>	3
<u>Condensed Consolidated Statements of Operations – Three and Six Months Ended June 30, 2018 and 2017</u>	4
<u>Condensed Consolidated Statements of Comprehensive Income (Loss) – Three and Six Months Ended June 30, 2018 and 2017</u>	5
<u>Condensed Consolidated Statements of Cash Flows – Six Months Ended June 30, 2018 and 2017</u>	6
<u>Notes to Condensed Consolidated Financial Statements</u>	7
Item 2 – <u>Management’s Discussion and Analysis of Financial Condition and Results of Operations</u>	21
Item 3 – <u>Quantitative and Qualitative Disclosures About Market Risk</u>	24
Item 4 – <u>Controls and Procedures</u>	24
Part II –Other Information:	
Item 1 – <u>Legal Proceedings</u>	25
Item 1A – <u>Risk Factors</u>	25
Item 6 – <u>Exhibits</u>	25
<u>Signatures</u>	26

## PART I – FINANCIAL INFORMATION

## AMPCO-PITTSBURGH CORPORATION

## CONDENSED CONSOLIDATED BALANCE SHEETS

(UNAUDITED)

(in thousands, except par value)

	June 30,	December 31,
	2018	2017
<b>Assets</b>		
<b>Current assets:</b>		
Cash and cash equivalents	\$22,148	\$20,700
Receivables, less allowance for doubtful accounts of \$979 in 2018 and \$962 in 2017	97,178	86,623
Inventories	111,956	107,561
Insurance receivable – asbestos	15,000	13,000
Other current assets	11,844	12,363
Total current assets	258,126	240,247
Property, plant and equipment, net	206,990	214,980
Insurance receivable – asbestos	76,292	87,342
Deferred income tax assets	2,993	1,590
Investments in joint ventures	2,175	2,175
Intangible assets, net	10,075	11,021
Other noncurrent assets	6,225	8,244
Total assets	\$562,876	\$565,599
<b>Liabilities and Shareholders' Equity</b>		
<b>Current liabilities:</b>		
Accounts payable	\$50,404	\$47,479
Accrued payrolls and employee benefits	21,046	22,768
Debt – current portion	45,080	19,335
Asbestos liability – current portion	21,000	18,000
Other current liabilities	32,207	37,089
Total current liabilities	169,737	144,671
Employee benefit obligations	75,123	79,750
Asbestos liability	116,304	131,750
Long-term debt	41,245	46,818
Deferred income tax liabilities	353	433
Other noncurrent liabilities	2,187	416
Total liabilities	404,949	403,838
Commitments and contingent liabilities (Note 8)		
<b>Shareholders' equity:</b>		
Common stock – par value \$1; authorized 20,000 shares; issued and outstanding	12,491	12,361

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12,491 shares in 2018 and 12,361 shares in 2017

Additional paid-in capital	154,185	152,992
Retained earnings	36,926	38,348
Accumulated other comprehensive loss	(49,203 )	(44,760 )
Total Ampco-Pittsburgh shareholders' equity	154,399	158,941
Noncontrolling interest	3,528	2,820
Total shareholders' equity	157,927	161,761
Total liabilities and shareholders' equity	\$562,876	\$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		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017
Net sales	\$127,427	\$110,550	\$242,504	\$214,066
Operating costs and expenses:				
Costs of products sold (excluding depreciation and amortization)	108,576	92,052	203,333	176,833
Selling and administrative	14,814	15,053	30,287	30,430
Depreciation and amortization	5,769	5,646	11,674	11,568
Gain on disposal of assets	(106 )	(1 )	(61 )	(1 )
Total operating expenses	129,053	112,750	245,233	218,830
Loss from operations	(1,626 )	(2,200 )	(2,729 )	(4,764 )
Other income (expense):				
Investment-related income	43	22	67	71
Interest expense	(1,020 )	(728 )	(1,893 )	(1,905 )
Other – net	451	570	3,351	(315 )
	(526 )	(136 )	1,525	(2,149 )
Loss before income taxes and equity income in joint venture	(2,152 )	(2,336 )	(1,204 )	(6,913 )
Income tax (provision) benefit	(548 )	102	(107 )	(33 )
Equity income in joint venture	0	485	0	535
Net loss	(2,700 )	(1,749 )	(1,311 )	(6,411 )
Less: Net income attributable to noncontrolling interest	294	164	742	285
Net loss attributable to Ampco-Pittsburgh shareholders	\$(2,994 )	\$(1,913 )	\$(2,053 )	\$(6,696 )
Net loss per common share attributable to Ampco-Pittsburgh:				
Basic	\$(0.24 )	\$(0.16 )	\$(0.17 )	\$(0.54 )
Diluted	\$(0.24 )	\$(0.16 )	\$(0.17 )	\$(0.54 )
Cash dividends declared per share	\$0.00	\$0.00	\$0.00	\$0.09
Weighted average number of common shares outstanding:				
Basic	12,439	12,327	12,401	12,299
Diluted	12,439	12,327	12,401	12,299

See Notes to Condensed Consolidated Financial Statements.

## AMPCO-PITTSBURGH CORPORATION

## CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME (LOSS)

(UNAUDITED)

(in thousands)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Net loss	\$(2,700)	\$(1,749)	\$(1,311)	\$(6,411)
Other comprehensive (loss) income, net of income tax where applicable:				
Adjustments for changes in:				
Foreign currency translation	(6,197)	4,926	(3,699)	7,178
Unrecognized employee benefit costs (including effects of foreign currency translation)	692	(866)	279	(1,121)
Unrealized holding gains on marketable securities	0	102	0	287
Fair value of cash flow hedges	(6)	15	(321)	239
Reclassification adjustments for items included in net loss:				
Amortization of unrecognized employee benefit costs	64	783	194	1,516
Realized gains from sale of marketable securities	0	0	0	(6)
Realized gains from settlement of cash flow hedges	(92)	(167)	(301)	(322)
Other comprehensive (loss) income	(5,539)	4,793	(3,848)	7,771
Comprehensive (loss) income	(8,239)	3,044	(5,159)	1,360
Less: Comprehensive income attributable to noncontrolling interest	109	92	708	216
Comprehensive (loss) income attributable to Ampco-Pittsburgh	\$(8,348)	\$2,952	\$(5,867)	\$1,144

See Notes to Condensed Consolidated Financial Statements.

## AMPCO-PITTSBURGH CORPORATION

## CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(UNAUDITED)

(in thousands)

	Six Months Ended	
	June 30,	
	2018	2017
Net cash flows used in operating activities	\$(11,350)	\$(10,562)
Cash flows from investing activities:		
Purchases of property, plant and equipment	(5,934 )	(6,229 )
Proceeds from sale of investment in joint venture	0	1,000
Purchases of long-term marketable securities	(91 )	(56 )
Proceeds from sale of long-term marketable securities	186	87
Net cash flows used in investing activities	(5,839 )	(5,198 )
Cash flows from financing activities:		
Dividends paid	(35 )	(2,235 )
Repayment of debt	(496 )	(997 )
Proceeds from Revolving Credit and Security Agreement	19,971	8,300
Proceeds from credit facility	0	8,795
Payments on credit facility	0	(15,941)
Net cash flows provided by (used in) financing activities	19,440	(2,078 )
Effect of exchange rate changes on cash and cash equivalents	(803 )	784
Net increase (decrease) in cash and cash equivalents	1,448	(17,054)
Cash and cash equivalents at beginning of period	20,700	38,579
Cash and cash equivalents at end of period	\$22,148	\$21,525
Supplemental information:		
Income tax payments	\$918	\$769
Interest payments	\$830	\$796
Non-cash investing activities:		
Purchases of property, plant and equipment included in accounts payable	\$1,200	\$1,223

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 June 30, 2018, and the condensed consolidated statements of operations and comprehensive income (loss) for the three and six months ended June 30, 2018, and 2017, and condensed consolidated statements of cash flows for the six months ended June 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 six months ended June 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 guidance did not affect the Corporation's financial position or liquidity. The effect of the retrospective guidance on the condensed consolidated statements of operations was as follows:

	Three Months Ended June 30, 2017		
	Reclassification		
	Originally Presented	for ASU 2017-07	As Adjusted
Costs of products sold (excluding	\$92,017	\$ 35	\$ 92,052

depreciation and amortization)			
Selling and administrative	14,903	150	15,053
Loss from operations	(2,015 )	(185 )	(2,200 )
Other – net	385	185	570
Other income (expense)	(321 )	185	(136 )
Loss before income taxes and equity income in joint venture	(2,336 )	0	(2,336 )

## Six Months Ended June 30, 2017

## Reclassification

Originally for

Presented ASU 2017-07 As Adjusted

Costs of products sold (excluding depreciation and amortization)	\$ 176,680	\$ 153	\$ 176,833
Selling and administrative	30,201	229	30,430
Loss from operations	(4,382 )	(382 )	(4,764 )
Other – net	(697 )	382	(315 )
Other income (expense)	(2,531 )	382	(2,149 )
Loss before income taxes and equity income in joint venture	(6,913 )	0	(6,913 )

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 have a significant impact on 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 establishes 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 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 June 30, 2018, and December 31, 2017, approximately 39% 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:

	June 30,	December 31,
	2018	2017
Raw materials	\$22,717	\$ 24,249
Work-in-process	46,692	42,840
Finished goods	24,516	24,083
Supplies	18,031	16,389
Inventories	\$111,956	\$ 107,561

### 3. Property, Plant and Equipment

Property, plant and equipment were comprised of the following:

	June 30,	December 31,
	2018	2017
Land and land improvements	\$11,887	\$12,172
Buildings	67,783	68,572
Machinery and equipment	340,650	340,396
Construction-in-process	7,456	5,019
Other	7,379	7,193
	435,155	433,352
Accumulated depreciation and amortization	(228,165)	(218,372)
Property, plant and equipment, net	\$206,990	\$214,980

The majority of the assets of the Corporation, except real property including the land and building of Union Electric Steel UK Limited (“UES-UK”), is pledged as collateral for the Corporation’s Revolving Credit and Security Agreement (Note 7). Land and buildings of UES-UK, equal to approximately \$2,770 (£2,098) at June 30, 2018, are held as collateral by the trustees of the UES-UK defined benefit pension plan (see Note 6). The gross value of assets under capital lease and the related accumulated amortization as of June 30, 2018, approximated \$3,695 and \$964, respectively, and at December 31, 2017, approximated \$4,082 and \$1,101, respectively.

### 4. Intangible Assets

Intangible assets were comprised of the following:

	June 30,	December 31,
	2018	2017
Customer relationships	\$6,377	\$ 6,543
Developed technology	4,362	4,429
Trade name	2,605	2,696
	13,344	13,668
Accumulated amortization	(3,269 )	(2,647 )
Intangible assets, net	\$10,075	\$ 11,021

Movement in foreign currency exchange rates used to translate intangible assets from local currency to the U.S. dollar changed the gross value of intangible assets between the periods. Amortization expense for the three months ended June 30, 2018, and 2017, was \$308 and \$301, respectively. Amortization expense for the six months ended June 30, 2018, and 2017, was \$622 and \$599.

### 5. Other Current Liabilities

Other current liabilities were comprised of the following:

	June 30,	December 31,
	2018	2017
Customer-related liabilities	\$ 17,003	\$ 18,512
Accrued interest payable	2,783	2,697
Accrued sales commissions	2,491	2,301
Other	9,930	13,579
Other current liabilities	\$ 32,207	\$ 37,089

9

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Included in customer-related liabilities are costs expected to be incurred with respect to product warranties and customer deposits. Changes in the liability for product warranty claims consisted of the following:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Balance at beginning of the period	\$ 10,905	\$ 11,748	\$ 11,702	\$ 11,521
Satisfaction of warranty claims	(1,037 )	(850 )	(1,634 )	(1,720 )
Provision for warranty claims	975	934	1,988	1,953
Reversal of unneeded provision for warranty claims	(364 )	0	(1,604 )	0
Other, primarily impact from changes in foreign currency exchange rates	(357 )	285	(330 )	363
Balance at end of the period	\$ 10,122	\$ 12,117	\$ 10,122	\$ 12,117

#### 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 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:

	Six Months Ended June 30,	
	2018	2017
Foreign defined benefit pension plans	\$ 1,124	\$ 901
Other postretirement benefits (e.g., net payments)	566	560
U.K. defined contribution pension plan	182	139
U.S. defined contribution plan	1,319	1,248

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

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
U.S. Defined Benefit Pension Plans				
Service cost	\$ 474	\$ 410	\$ 809	\$ 821
Interest cost	2,071	2,099	4,111	4,197
Expected return on plan assets	(3,319 )	(3,128 )	(6,603 )	(6,255 )
Amortization of prior service cost	12	14	25	27

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Amortization of actuarial loss	380	1,002	855	1,938
Curtailement loss	21	0	21	0
Net benefit (income) cost	\$ (361 )	\$ 397	\$ (782 )	\$ 728

Foreign Defined Benefit Pension Plans	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Service cost	\$ 164	\$ 92	\$ 275	\$ 182
Interest cost	354	458	718	903
Expected return on plan assets	(658 )	(556 )	(1,330 )	(1,094 )
Amortization of prior service credit	(85 )	0	(173 )	0
Amortization of actuarial loss	190	186	384	367
Net benefit (income) cost	\$ (35 )	\$ 180	\$ (126 )	\$ 358

	Three Months Ended June 30,		Six Months Ended June 30,	
Other Postretirement Benefit Plans	2018	2017	2018	2017
Service cost	\$ 126	\$ 181	\$ 228	\$ 353
Interest cost	122	132	247	304
Amortization of prior service credit	(401 )	(399 )	(803 )	(804 )
Amortization of actuarial gain	(53 )	(20 )	(115 )	(12 )
Net benefit income	\$ (206 )	\$ (106 )	\$ (443 )	\$ (159 )

### 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.

Availability under the Credit Agreement is based on eligible accounts receivable, inventory and fixed assets. Amounts outstanding under the credit facility bear interest, at the Corporation's option, at either (i) LIBOR plus an applicable margin ranging between 1.25% to 1.75% based on the quarterly average excess availability or (ii) the base rate plus an applicable margin ranging between 0.25% to 0.75% 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 June 30, 2018, the Corporation had outstanding borrowings under the Credit Agreement of \$40,320 (including £1,000 of European borrowings for its U.K. subsidiary). The average interest rate for the six months ended June 30, 2018, was approximately 2.64%. Additionally, the Corporation had utilized a portion of the credit facility for letters of credit (Note 8). As of June 30, 2018, remaining availability under the Credit Agreement approximated \$37,000.

The debt outstanding under the Credit Agreement is 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 divestures. 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 June 30, 2018.

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

	June 30,	December 31,
	2018	2017
Industrial Revenue Bonds ("IRB")	\$13,311	\$ 13,311
Promissory notes (and interest)	26,212	25,395
Revolving Credit and Security Agreement	40,320	20,349
Minority shareholder loan	5,084	5,325
Capital leases	1,398	1,773

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Outstanding borrowings	86,325	66,153
Debt - current portion	(45,080)	(19,335 )
Long-term debt	\$41,245	\$ 46,818

### 8. Commitments and Contingent Liabilities

Outstanding standby and commercial letters of credit as of June 30, 2018, approximated \$21,340, 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 June 30, 2018, approximately \$20,519 of anticipated foreign-denominated sales has been hedged which are covered by fair value contracts settling at various dates through October 2019.

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 June 30, 2018, approximately 46% or \$2,504 of anticipated copper purchases over the next 11 months and 56% or \$557 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 June 30, 2018, the Corporation has purchase commitments covering 47% or \$467 of anticipated natural gas usage for 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 \$396 and \$818, respectively, for the three and six months ended June 30, 2018. There were no purchases of natural gas under previously existing commitments for the three and six months ended June 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 \$(881) and \$361 for the three months ended June 30, 2018, and 2017, respectively, and \$(1,702) and \$(703) for the six months ended June 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:

	June 30, December 31,	
Location	2018	2017

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Fair value hedge contracts	Other current assets	\$61	\$ 961
	Other noncurrent assets	0	0
	Other current liabilities	703	89
	Other noncurrent liabilities	45	1
Fair value hedged items	Receivables	326	(269 )
	Other current assets	502	169
	Other noncurrent assets	77	16
	Other current liabilities	116	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 June 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.

	Accumulated	Plus	Less	Accumulated
	Other	Recognized as	Gain	Other
	Comprehensive	Comprehensive	Reclassified	Comprehensive
	Income (Loss)	Income (Loss)	from	Income (Loss)
	Beginning of	the Year	Other	End of
	the Year	Income (Loss)	Loss	the Period
Three Months Ended June 30, 2018				
Foreign currency purchase contracts	\$ 232	\$ 0	\$ 2	\$ 230
Futures contracts – copper and aluminum	(17 )	(6 )	90	(113 )
	\$ 215	\$ (6 )	\$ 92	\$ 117
Three Months Ended June 30, 2017				
Foreign currency purchase contracts	\$ 209	\$ 0	\$ 6	\$ 203
Futures contracts – copper and aluminum	411	15	161	265
	\$ 620	\$ 15	\$ 167	\$ 468
Six Months Ended June 30, 2018				
Foreign currency purchase contracts	\$ 239	\$ 0	\$ 9	\$ 230
Futures contracts – copper and aluminum	500	(321 )	292	(113 )
	\$ 739	\$ (321 )	\$ 301	\$ 117
Six Months Ended June 30, 2017				
Foreign currency purchase contracts	\$ 216	\$ 0	\$ 13	\$ 203
Futures contracts – copper and aluminum	335	239	309	265
	\$ 551	\$ 239	\$ 322	\$ 468

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			Six
Gain (Loss)	be Reclassified	Three Months Ended June	Months Ended June	Months Ended June
in Statements	in the Next	30,	30,	30,
of Operations	12 Months	2018	2017	2018
				2017

Foreign currency purchase contracts	Depreciation and amortization	\$ 27	\$ 2	\$ 6	\$ 9	\$ 13
Futures contracts – copper and aluminum	Costs of products sold (excluding depreciation and amortization)	(113	) 90	161	292	309

## 10. Accumulated Other Comprehensive Loss

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

	Unrealized				
	Foreign Currency Translation Adjustments	Unrecognized Employee Benefit Costs	Holding Gains on Marketable Securities	Cash Flow Hedges	Accumulated Other Comprehensive 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	(3,699 )	473	0	(622 )	(3,848 )
Balance at June 30, 2018	\$ (15,631 )	\$ (33,723 )	\$ 0	\$ 117	\$ (49,237 )
Balance at January 1, 2017	\$ (22,973 )	\$ (38,636 )	\$ 59	\$ 551	\$ (60,999 )
Net Change	7,178	395	281	(83 )	7,771
Balance at June 30, 2017	\$ (15,795 )	\$ (38,241 )	\$ 340	\$ 468	\$ (53,228 )

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 the fair value of the Corporation's marketable securities were reclassified from accumulated other comprehensive loss to net loss for the three or six months ended June 30, 2018. For the three or six months ended June 30, 2017, the Corporation reclassified an insignificant amount of realized gains from the sale of marketable securities to the condensed consolidated statement of operations.

	Three Months Ended		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017
Amortization of unrecognized employee				

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benefit costs:				
Other income	\$64	\$ 783	\$194	\$ 1,516
Income tax				
provision	0	0	0	0
Net of tax	\$64	\$ 783	\$194	\$ 1,516
Realized gains from settlement of cash flow hedges:				
Depreciation and amortization (foreign currency purchase contracts)				
	\$(2 )	\$ (6 )	\$(9 )	\$(13 )
Costs of products sold (excluding depreciation and amortization) (futures contracts – copper and aluminum)				
	(90 )	(161 )	(292 )	(309 )
Total before income tax	(92 )	(167 )	(301 )	(322 )
Income tax				
provision	0	0	0	0
Net of tax	\$(92 )	\$ (167 )	\$(301 )	\$(322 )

### 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 June 30, 2018, and 2017, equaled \$446 and \$672, respectively. Stock-based compensation expense for the six months ended June 30, 2018, and 2017, equaled \$1,112 and \$1,336, 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 June 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
<b>As of June 30, 2018</b>				
<b>Investments</b>				
Other noncurrent assets	\$ 4,064	\$ 0	\$ 0	\$4,064
<b>Foreign currency exchange contracts</b>				
Other current assets	0	563	0	563
Other noncurrent assets	0	77	0	77
Other current liabilities	0	819	0	819
Other noncurrent liabilities	0	45	0	45
<b>As of December 31, 2017</b>				
<b>Investments</b>				
Other noncurrent assets	\$ 4,204	\$ 0	\$ 0	\$4,204
<b>Foreign currency exchange contracts</b>				
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 U.S. 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. 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 six months ended June 30, 2018, includes the impact of a favorable contractual settlement with a third party of approximately \$2,425 and higher pension and other postretirement benefit income of approximately \$2,300, 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. Prior year amounts have been adjusted to include the effects of ASU 2017-07, which became effective on January 1, 2018.

	Three Months Ended June 30,		Six Months Ended	
	2018	2017	June 30,	2017
Net sales:				
Forged and Cast Engineered Products	\$ 102,986	\$ 88,358	\$ 196,894	\$ 170,060
Air and Liquid Processing	24,441	22,192	45,610	44,006

Total Reportable Segments	\$ 127,427	\$ 110,550	\$242,504	\$ 214,066
(Loss) income before income taxes:				
Forged and Cast Engineered Products	\$ (1,464 )	\$ (446 )	\$(588 )	\$ (1,169 )
Air and Liquid Processing	3,748	2,680	6,007	5,361
Total Reportable Segments	2,284	2,234	5,419	4,192
Other expense, including corporate costs	(4,436 )	(4,570 )	(6,623 )	(11,105 )
Total	\$ (2,152 )	\$ (2,336 )	\$(1,204 )	\$ (6,913 )

### 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. There are no customer-acceptance provisions other than customer inspection and testing prior to shipment. Post-shipment obligations are insignificant. The Corporation provides a limited warranty on its products and may issue credit notes or replace products free of charge for valid claims. 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. Payment terms are standard to the industry and generally require payment 30 days after title transfers.

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 six months ended June 30, 2018, and 2017, were as follows:

	Net Sales				(Loss) Income Before Income Taxes and Equity Income in Joint Venture			
	Three Months Ended		Six Months Ended		Three Months		Six Months Ended	
	June 30, 2018	2017	June 30, 2018	2017	Ended June 30, 2018	2017	June 30, 2018	2017
United States	\$65,601	\$60,590	\$124,152	\$116,092	\$(1,347)	\$(5,805)	\$(3,522)	\$(10,691)
Foreign	61,826	49,960	118,352	97,974	(805 )	3,469	2,318	3,778

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\$127,427 \$110,550 \$242,504 \$214,066 \$(2,152) \$(2,336) \$(1,204) \$(6,913 )

Net sales by product line for the three and six months ended June 30, 2018, and 2017, were as follows:

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2018	2017	2018	2017
Forged and cast mill rolls	\$74,927	\$61,720	\$142,415	\$125,972
Forged engineered products	28,059	26,637	54,479	44,088
Heat exchange coils	7,325	6,514	13,726	13,435
Centrifugal pumps	9,389	9,976	17,764	20,160
Air handling systems	7,727	5,703	14,120	10,411
	\$127,427	\$110,550	\$242,504	\$214,066

17

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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:

	Three Months Ended June 30,		Six Months Ended June 30,	
	2018	2017	2018	2017
Balance at beginning of the period	\$ 4,702	\$ 7,942	\$ 4,573	\$ 6,786
Satisfaction of performance obligations	(2,637 )	(4,337 )	(5,149 )	(6,425 )
Receipt of additional deposits	2,876	4,219	5,513	7,459
Other, primarily changes in foreign currency				
exchange rates	(52 )	25	(48 )	29
Balance at end of the period	\$ 4,889	\$ 7,849	\$ 4,889	\$ 7,849

### 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. Defendants also filed a motion to stay arbitration pending the resolution of the appeal, and that motion was granted on September 5, 2017. The Third Circuit Court of Appeals held a hearing in early May to consider whether the District Court erred in compelling arbitration. No decision has yet been rendered. 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 six months ended June 30, 2018, and 2017 (claims not in thousands):

Six Months Ended	
June 30,	
2018	2017

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Total claims pending at the beginning of the period	6,907	6,618
New claims served	627	709
Claims dismissed	(198 )	(185 )
Claims settled	(190 )	(176 )
Total claims pending at the end of the period <sup>(1)</sup>	7,146	6,966
Gross settlement and defense costs (in 000's)	\$12,446	\$12,266
Avg. gross settlement and defense costs per claim		
resolved (in 000's)	\$32.08	\$33.98

(1)Included as “open claims” are approximately 480 claims as of June 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.

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 June 30 2018, was \$137,304. While 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 believes that there is too much uncertainty to provide for reasonable estimation of the number of future claims, the nature of such claims and the cost to resolve them beyond 2026. Accordingly, no reserve has been recorded for any costs that may be incurred after 2026.

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 (\$91,292 at June 30, 2018).

The following table summarizes activity relating to insurance recoveries.

	Six Months Ended	
	June 30,	
	2018	2017
Insurance receivable – asbestos, beginning of the year	\$ 100,342	\$ 115,945
Settlement and defense costs paid by insurance carriers	(9,050 )	(9,009 )
Insurance receivable – asbestos, end of the period	\$91,292	\$106,936

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 \$512 at June 30, 2018, is considered adequate based on information known to date.

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, although market conditions in the United States, Europe and other world regions remain difficult, protectionist acts (tariffs) and reduced output from China appear to be benefitting our two largest markets – North America and Europe. Conversely, recent tariffs imposed on steel and aluminum products from Canada is adversely impacting our Canadian operations and may impact the cost structure of our forged engineered products. The Corporation, however, is currently seeking relief through available 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 Six Months Ended June 30, 2018 and 2017

Net sales were \$127,427 and \$242,504, and \$110,550 and \$214,066, for the three and six months ended June 30, 2018, and 2017, respectively. Backlog approximated \$337,785 at June 30, 2018, versus \$326,379 as of December 31, 2017, and \$300,971 at June 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 six months ended June 30, 2018, when compared to the three and six months ended June 30, 2017. The increase is primarily due to higher raw material and operating costs and unabsorbed costs, including costs associated with a cast roll foundry that was temporarily idled in the second quarter of 2017. A higher volume of shipments and improved pricing helped to offset the impact.

Selling and administrative expenses were comparable for the three and six months ended June 30, 2018, and 2017. While the prior year periods include proceeds from the recovery of a portion of a trade receivable associated with a customer in bankruptcy, the current year periods benefitted from lower employee-related costs.

Loss from operations for the three months ended June 30, 2018, and 2017, approximated \$1,626 and \$2,200, and \$2,729 and \$4,764 for the six months ended June 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 three and six months ended June 30, 2018, increased when compared to the same periods of prior year due to higher sales of mill rolls, both forged and cast, and forged engineered products, primarily for the oil and gas industry. When compared to the prior year, operating results declined quarter over quarter but remained slightly better on a year-to-date basis. The higher volume of shipments, and better pricing, contributed approximately \$1,400 and \$7,700 to operating results for the three and six months ended June 30, 2018, compared to the three and six months ended June 30, 2017. However, higher operating costs, the loss of a key customer due to a plant closure, and the negative impact of lost sales and plant cost absorption driven by tariffs imposed by the U.S. on our Canadian subsidiary negatively impacted operating results. Additionally, the prior year periods include proceeds of \$1,322 for the recovery of a portion of a trade receivable associated with a customer in bankruptcy. Backlog approximated \$287,543 at June 30, 2018, against \$285,941 as of December 31, 2017, and \$249,100 at June 30, 2017. Backlog for mill rolls increased at June 30, 2018, when compared to each of the periods due to improved demand, particularly for cast mill rolls. By comparison, backlog for forged engineered products declined at June 30, 2018, from the earlier periods as a result of excess inventory in the supply chain. Approximately \$108,668 of the current backlog is expected to ship after 2018.

**Air and Liquid Processing.** Net sales for the three and six months ended June 30, 2018, improved against the same periods of the prior year attributable to increased sales of custom air handlers and heat exchange coils. Sales of centrifugal pumps decreased in the current year periods principally due to a lower volume of commercial pump shipments. Operating income for the current year periods increased when compared to same periods of the prior year as a result of the higher level of sales and product mix. Backlog approximated \$50,242 at June 30, 2018, against \$40,438 as of December 31, 2017, with each of the product lines benefitting from higher order intake. Backlog at June 30, 2018, was comparable to a year ago. The majority of backlog will ship in 2018.

Interest expense for the current quarter exceeded the same period of the prior year due to higher borrowings under our revolving credit facility. Similarly, borrowings under the revolving credit facility were higher for the six months ended June 30, 2018; however, we incurred interest, fees and early termination costs in the prior year associated with the repayment of debt assumed in connection with a 2016 acquisition. Accordingly, interest expense for the six-month periods was comparable.

Other income (expense) approximated \$(526) and \$(136) for the three months ended June 30, 2018, and 2017, and \$1,525 and \$(2,149) for the six months ended June 30, 2018, and 2017 respectively. 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 \$2,300. The balance of the change is attributable to fluctuations in foreign exchange gains and losses.

Income tax (provision) benefit approximated \$(548) and \$102 for the three months ended June 30, 2018, and 2017, and \$(107) and \$(33) for the six months ended June 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) benefit for the six months ended June 30, 2018, also includes 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. The benefit was partially offset by a one-time tax on the deemed repatriation of previously untaxed foreign earnings of

approximately \$660. 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. We intend to avail ourselves of the election, which will enable us to utilize a larger net operating loss carryback and increase the amount of income tax refund available to us. Accordingly, we recorded the one-time tax charge in the first quarter of 2018.

Net loss and earnings per common share for the three and six months ended June 30, 2018, equaled \$(2,994), or \$(0.24) per common share, and \$(2,053), or \$(0.17) per common share, respectively. Net loss and earnings per common share for the three and six months ended June 30, 2017, equaled \$(1,913), or \$(0.16) per common share, and \$(6,696), or \$(0.54) per common share, respectively.

#### Liquidity and Capital Resources

Net cash flows used in operating activities increased for the six months June 30, 2018, when compared to the six months ended June 30, 2017. The increase is principally due to additional investment in trade working capital to meet the increase in our business activity.

Net cash flows used in investing activities were comparable for the six months ended June 30, 2018, and 2017. While capital expenditures for 2018 are slightly 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 June 30, 2018, commitments for future capital expenditures approximated \$3,000 which is expected to be spent over the next 12-18 months.

Net cash flows provided by (used in) financing activities fluctuated primarily as a result of borrowing activity. During the first half of 2018, we borrowed \$19,971 under our revolving credit facility. By comparison, during the first half of 2017, we borrowed \$8,300 under our revolving credit facility, which was partially offset by the repayment of debt assumed in connection with a 2016 acquisition. Dividends were suspended in June 2017. Dividends paid in subsequent periods represent dividends paid on previously granted incentive awards (restricted stock units) that became vested.

As a result of the above, cash and cash equivalents increased \$1,448 in 2018, and ended the period at \$22,148 (of which approximately \$12,022 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 (approximately \$37,000 at June 30, 2018) are expected to be sufficient to finance our operational and capital expenditure requirements. 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 June 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) Offer Letter between the Corporation and J. Brett McBrayer, dated June 16, 2018, incorporated by reference to Form 8-K filed on June 27, 2018.
- (10.2) Ampco-Pittsburgh Corporation Executive Severance Plan, effective June 21, 2018, incorporated by reference to Form 8-K filed on June 27, 2018.
- (10.3) Retirement and Consulting Agreement, effective June 30, 2018, between Ampco-Pittsburgh Corporation and John S. Stanik, incorporated by reference to Form 8-K filed on July 16, 2018.
- (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: August 9, 2018 BY: /s/ J. Brett McBrayer  
J. Brett McBrayer  
Director and Chief Executive Officer

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