

PENTAIR plc
Form 10-Q
July 25, 2017
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UNITED STATES
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, 2017
OR

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

Commission file number 001-11625
Pentair plc

(Exact name of Registrant as specified in its charter)

Ireland

98-1141328

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification number)

43 London Wall, London, EC2M 5TF, United Kingdom

(Address of principal executive offices)

Registrant's telephone number, including area code: 44-207-347-8925

Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports) and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ 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 (§223.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ 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 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 ☐ Non-accelerated filer ☐

Smaller reporting
company ☐

Emerging
growth
company ☐

(Do not check if a 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 June 30, 2017, 181,479,171 shares of Registrant's common stock were outstanding.

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PART I FINANCIAL INFORMATION

ITEM 1. FINANCIAL STATEMENTS

Pentair plc and Subsidiaries

Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) (Unaudited)

In millions, except per-share data	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Net sales	\$1,265.3	\$1,301.2	\$2,448.8	\$2,491.2
Cost of goods sold	782.1	819.4	1,543.3	1,578.1
Gross profit	483.2	481.8	905.5	913.1
Selling, general and administrative	241.7	249.7	495.6	499.8
Research and development	28.7	28.7	58.7	57.2
Operating income	212.8	203.4	351.2	356.1
Other (income) expense:				
Equity income of unconsolidated subsidiaries	(0.4)	(1.1)	(0.6)	(1.5)
Loss on early extinguishment of debt	101.4	—	101.4	—
Net interest expense	25.3	35.4	60.3	71.6
Income from continuing operations before income taxes	86.5	169.1	190.1	286.0
Provision for income taxes	18.2	36.4	41.1	61.5
Net income from continuing operations	68.3	132.7	149.0	224.5
(Loss) income from discontinued operations, net of tax	(5.2)	10.1	1.9	25.7
Gain from sale of discontinued operations, net of tax	200.6	—	200.6	—
Net income	\$263.7	\$142.8	\$351.5	\$250.2
Comprehensive income, net of tax				
Net income	\$263.7	\$142.8	\$351.5	\$250.2
Changes in cumulative translation adjustment (inclusive of divestiture of business reclassified to gain from sale of \$374.2 for the three and six months ended June 30, 2017)	392.6	(25.8)	468.3	2.2
Changes in market value of derivative financial instruments, net of tax	(0.9)	10.9	0.7	(3.8)
Comprehensive income	\$655.4	\$127.9	\$820.5	\$248.6
Earnings per ordinary share				
Basic				
Continuing operations	\$0.37	\$0.73	\$0.82	\$1.24
Discontinued operations	1.08	0.06	1.11	0.14
Basic earnings per ordinary share	\$1.45	\$0.79	\$1.93	\$1.38
Diluted				
Continuing operations	\$0.37	\$0.73	0.81	1.23
Discontinued operations	1.06	0.05	1.10	0.14
Diluted earnings per ordinary share	\$1.43	\$0.78	\$1.91	\$1.37
Weighted average ordinary shares outstanding				
Basic	181.7	180.9	181.9	180.8
Diluted	183.8	183.0	183.9	182.8
Cash dividends paid per ordinary share	\$0.345	\$0.33	\$0.69	\$0.66

See accompanying notes to condensed consolidated financial statements.

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Pentair plc and Subsidiaries

Condensed Consolidated Balance Sheets (Unaudited)

	June 30, 2017	December 31, 2016
In millions, except per-share data		
Assets		
Current assets		
Cash and cash equivalents	\$177.8	\$ 238.5
Accounts and notes receivable, net of allowances of \$28.0 and \$25.6, respectively	764.5	764.0
Inventories	565.4	524.2
Other current assets	247.1	253.4
Current assets held for sale	—	891.9
Total current assets	1,754.8	2,672.0
Property, plant and equipment, net	550.9	538.6
Other assets		
Goodwill	4,314.2	4,217.4
Intangibles, net	1,624.3	1,631.8
Other non-current assets	424.9	182.1
Non-current assets held for sale	—	2,292.9
Total other assets	6,363.4	8,324.2
Total assets	\$8,669.1	\$ 11,534.8
Liabilities and Equity		
Current liabilities		
Current maturities of long-term debt and short-term borrowings	\$0.3	\$ 0.8
Accounts payable	407.8	436.6
Employee compensation and benefits	143.8	166.1
Other current liabilities	496.5	511.5
Current liabilities held for sale	—	356.2
Total current liabilities	1,048.4	1,471.2
Other liabilities		
Long-term debt	1,698.9	4,278.4
Pension and other post-retirement compensation and benefits	268.4	253.4
Deferred tax liabilities	546.5	609.5
Other non-current liabilities	203.4	162.0
Non-current liabilities held for sale	—	505.9
Total liabilities	3,765.6	7,280.4
Equity		
Ordinary shares \$0.01 par value, 426.0 authorized, 181.5 and 181.8 issued at June 30, 2017 and December 31, 2016, respectively	1.8	1.8
Additional paid-in capital	2,876.3	2,920.8
Retained earnings	2,292.7	2,068.1
Accumulated other comprehensive loss	(267.3)	(736.3)
Total equity	4,903.5	4,254.4
Total liabilities and equity	\$8,669.1	\$ 11,534.8
See accompanying notes to condensed consolidated financial statements.		

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Pentair plc and Subsidiaries

Condensed Consolidated Statements of Cash Flows (Unaudited)

	Six months ended	
	June 30, 2017	June 30, 2016
In millions		
Operating activities		
Net income	\$351.5	\$250.2
Income from discontinued operations, net of tax	(1.9)	(25.7)
Gain from sale of discontinued operations, net of tax	(200.6)	—
Adjustments to reconcile net income from continuing operations to net cash provided by (used for) operating activities of continuing operations		
Equity income of unconsolidated subsidiaries	(0.6)	(1.5)
Depreciation	42.0	43.5
Amortization	48.6	48.5
Deferred income taxes	(16.7)	(26.3)
Share-based compensation	26.0	22.3
Loss on early extinguishment of debt	101.4	—
Excess tax benefits from share-based compensation	—	(3.2)
Gain on sale of assets	—	(0.7)
Changes in assets and liabilities, net of effects of business acquisitions		
Accounts and notes receivable	28.5	78.1
Inventories	(21.3)	8.9
Other current assets	(10.2)	(68.0)
Accounts payable	(46.8)	(31.5)
Employee compensation and benefits	(30.7)	(12.1)
Other current liabilities	(49.5)	50.7
Other non-current assets and liabilities	(8.8)	(12.3)
Net cash provided by (used for) operating activities of continuing operations	210.9	320.9
Net cash provided by (used for) operating activities of discontinued operations	(55.6)	48.6
Net cash provided by (used for) operating activities	155.3	369.5
Investing activities		
Capital expenditures	(37.6)	(64.0)
Proceeds from sale of property and equipment	3.8	7.6
Proceeds from sale of businesses, net	2,765.6	—
Acquisitions, net of cash acquired	(59.5)	—
Other	—	(3.7)
Net cash provided by (used for) investing activities of continuing operations	2,672.3	(60.1)
Net cash provided by (used for) investing activities of discontinued operations	(6.5)	(8.0)
Net cash provided by (used for) investing activities	2,665.8	(68.1)
Financing activities		
Net repayments of short-term borrowings	(0.5)	—
Net repayments of commercial paper and revolving long-term debt	(975.5)	(139.8)
Repayments of long-term debt	(1,659.3)	(0.7)
Premium paid on early extinguishment of debt	(94.9)	—
Excess tax benefits from share-based compensation	—	3.2
Shares issued to employees, net of shares withheld	29.5	8.3
Repurchases of ordinary shares	(100.0)	—
Dividends paid	(126.1)	(119.7)

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Net cash provided by (used for) financing activities	(2,926.8	(248.7)
Effect of exchange rate changes on cash and cash equivalents	45.0	(5.7)
Change in cash and cash equivalents	(60.7)	47.0
Cash and cash equivalents, beginning of period	238.5	126.3
Cash and cash equivalents, end of period	\$177.8	\$173.3
See accompanying notes to condensed consolidated financial statements.		

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Pentair plc and Subsidiaries

Condensed Consolidated Statements of Changes in Equity (Unaudited)

In millions	Ordinary shares Number	Amount	Additional paid-in capital	Retained earnings	Accumulated other comprehensive loss	Total
Balance - December 31, 2016	181.8	\$ 1.8	\$2,920.8	\$2,068.1	\$ (736.3)	) \$4,254.4
Net income	—	—	—	351.5	—	351.5
Other comprehensive income, net of tax	—	—	—	—	469.0	469.0
Dividends declared	—	—	—	(126.9)	—	(126.9)
Share repurchase	(1.5)	—	(100.0)	—	—	(100.0)
Exercise of options, net of shares tendered for payment	1.0	—	36.5	—	—	36.5
Issuance of restricted shares, net of cancellations	0.3	—	—	—	—	—
Shares surrendered by employees to pay taxes	(0.1)	—	(7.0)	—	—	(7.0)
Share-based compensation	—	—	26.0	—	—	26.0
Balance - June 30, 2017	181.5	\$ 1.8	\$2,876.3	\$2,292.7	\$ (267.3)	) \$4,903.5

In millions	Ordinary shares Number	Amount	Additional paid-in capital	Retained earnings	Accumulated other comprehensive loss	Total
Balance - December 31, 2015	180.5	\$ 1.8	\$2,860.3	\$1,791.7	\$ (645.0)	) \$4,008.8
Net income	—	—	—	250.2	—	250.2
Other comprehensive loss, net of tax	—	—	—	—	(1.6)	(1.6)
Dividends declared	—	—	—	(121.7)	—	(121.7)
Exercise of options, net of shares tendered for payment	0.4	—	13.8	—	—	13.8
Issuance of restricted shares, net of cancellations	0.3	—	—	—	—	—
Shares surrendered by employees to pay taxes	(0.1)	—	(5.5)	—	—	(5.5)
Share-based compensation	—	—	22.3	—	—	22.3
Balance - June 30, 2016	181.1	\$ 1.8	\$2,890.9	\$1,920.2	\$ (646.6)	) \$4,166.3

See accompanying notes to condensed consolidated financial statements.

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

1. Basis of Presentation and Responsibility for Interim Financial Statements

The accompanying unaudited condensed consolidated financial statements of Pentair plc (formerly Pentair Ltd.) and its subsidiaries ("we," "us," "our," "Pentair," or "the Company") have been prepared following the requirements of the U.S. Securities and Exchange Commission ("SEC") for interim reporting. As permitted under those rules, certain footnotes or other financial information that are normally required by accounting principles generally accepted in the United States of America can be condensed or omitted.

We are responsible for the unaudited condensed consolidated financial statements included in this document. The financial statements include all normal recurring adjustments that are considered necessary for the fair presentation of our financial position and operating results. As these are condensed financial statements, one should also read our consolidated financial statements and notes thereto, which are included in our Annual Report on Form 10-K for the year ended December 31, 2016.

Revenues, expenses, cash flows, assets and liabilities can and do vary during each quarter of the year. Therefore, the results and trends in these interim financial statements may not be indicative of those for a full year.

Our fiscal year ends on December 31. We report our interim quarterly periods on a calendar quarter basis.

Proposed Separation

On May 9, 2017, we announced that our Board of Directors approved a plan to separate our Water business and Electrical business into two independent, publicly-traded companies (the "Proposed Separation"). The Proposed Separation is expected to occur through a tax-free spin-off of the Electrical business to Pentair shareholders.

Completion of the Proposed Separation is subject to certain customary conditions, including, among other things, final approval of the transaction by Pentair's Board of Directors, receipt of tax opinions and rulings and effectiveness of appropriate filings with the SEC. Upon completion of the Proposed Separation, it is anticipated that Electrical's jurisdiction of organization will be Ireland, but that it will manage its affairs so that it will be centrally managed and controlled in the United Kingdom (the "U.K.") and therefore will have its tax residency in the U.K.

The disclosures and financial statements within these condensed consolidated financial statements include the results of operations, financial condition and cash flows of the Electrical business as continuing operations.

We expect to complete the Proposed Separation in the second quarter of 2018; however, there can be no assurance regarding the ultimate timing of the Proposed Separation or that the Proposed Separation will be completed.

New accounting standards

In March 2016, the Financial Accounting Standards Board ("FASB") issued a new accounting standard for share-based payments. The guidance simplifies several aspects of the accounting for employee share-based payment transactions, including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification of excess tax benefits in the Condensed Consolidated Statements of Cash Flows. We adopted the new standard in the first quarter of 2017. The impact of the adoption resulted in the following:

All excess tax benefits and deficiencies arising from employee share-based payment awards, and dividends on those awards, will be recognized within income taxes in the period in which they occur rather than within additional paid-in-capital. Our adoption of this requirement under the new standard had no material impact for the three and six months ended June 30, 2017.

The Company no longer presents excess tax benefits within cash flows from financing activities in the Condensed Consolidated Statements of Cash Flows; instead these are now reflected within cash flows from operating activities. The Company elected to apply this change prospectively.

The Company elected not to change its policy on accounting for forfeitures and continues to estimate the total number of awards for which the requisite service period will not be rendered.

The Company excluded the excess tax benefits from the assumed proceeds available to repurchase shares in the computation of our diluted earnings per share for the three and six months ended June 30, 2017. This increased diluted weighted average common shares outstanding by less than 350,000 shares for the three and six months ended

June 30, 2017.

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Notes to condensed consolidated financial statements (unaudited)

In February 2016, the FASB issued new accounting requirements regarding accounting for leases, which require an entity to recognize both assets and liabilities arising from financing and operating leases, along with additional qualitative and quantitative disclosures. The requirements are effective for annual reporting periods beginning after December 15, 2018, including interim periods within that reporting period, and early adoption is permitted. We have not yet determined the potential effects on our financial condition or results of operations.

In May 2014, the FASB issued new accounting requirements for the recognition of revenue from contracts with customers. The new requirements also include additional disclosure about the nature, amount, timing and uncertainty of revenue and cash flows arising from customer contracts, including significant judgments and changes in judgments and assets recognized from costs incurred to obtain or fulfill a contract. The requirements are effective for annual reporting periods beginning after December 15, 2017, including interim periods within that reporting period. The Company intends to adopt the new revenue guidance as of January 1, 2018 and expects to utilize the modified retrospective transition method of adoption, with adjustment to beginning retained earnings for the cumulative effect of the change. In preparation for adoption of the new guidance, the Company has reviewed representative samples of contracts and other forms of agreements with customers globally and is in the process of quantifying the impact of adopting the new revenue standard. Based on its procedures to date, the Company does not believe the adoption of the new standard will have a material impact on its results of operations, financial condition or cash flows. The new standard will result in enhanced disclosures in the footnotes to our consolidated financial statements to provide additional quantitative and qualitative information related to disaggregation of revenue, changes in contract assets and liabilities and remaining performance obligations. Adoption of this standard will require changes to our business processes, systems and controls to support the additional required disclosures. We are in the process of identifying such changes.

2. Discontinued Operations

On April 28, 2017, we completed the sale of the Valves & Controls business to Emerson Electric Co. for \$3.15 billion, subject to final working capital adjustments. The sale resulted in a gain, net of tax, of \$200.6 million.

The results of the Valves & Controls business have been presented as discontinued operations and the related assets and liabilities have been classified as held for sale for all periods presented. The Valves & Controls business was previously disclosed as a stand-alone reporting segment. Transaction costs of \$42.5 million and \$53.7 million related to the sale of Valves & Controls were incurred during the three and six months ended June 30, 2017, respectively, and were recorded within Gain from sale of discontinued operations before income taxes presented below.

Results of discontinued operations are summarized below:

In millions	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Net sales	\$93.8	\$ 433.6	\$450.3	\$ 820.6
Cost of goods sold	71.8	316.3	339.7	599.1
Gross profit	22.0	117.3	110.6	221.5
Selling, general and administrative	23.8	98.8	103.3	180.3
Research and development	1.5	5.1	5.7	9.9
Operating (loss) income	\$(3.3)	\$ 13.4	\$ 1.6	\$ 31.3
(Loss) income from discontinued operations before income taxes	\$(3.2)	\$ 13.3	\$ 2.5	\$ 31.5
Provision for income taxes	2.0	3.2	0.6	5.8
(Loss) income from discontinued operations, net of tax	\$(5.2)	\$ 10.1	\$ 1.9	\$ 25.7

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Gain from sale of discontinued operations before income taxes	\$203.0	\$ —	\$203.0	\$ —
Provision for income taxes	2.4	—	2.4	—
Gain from sale of discontinued operations, net of tax	\$200.6	\$ —	\$200.6	\$ —

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Notes to condensed consolidated financial statements (unaudited)

The carrying amounts of major classes of assets and liabilities that were classified as held for sale on the Condensed Consolidated Balance Sheets were as follows:

In millions	June 30, December 31,	
	2017	2016
Accounts and notes receivable, net	\$	—\$ 365.4
Inventories	—	491.5
Other current assets	—	35.0
Current assets held for sale	\$	—\$ 891.9
Property, plant and equipment, net	\$	—\$ 361.5
Goodwill	—	996.4
Intangibles, net	—	703.5
Asbestos-related insurance receivable	—	108.5
Other non-current assets	—	123.0
Non-current assets held for sale	\$	—\$ 2,292.9
Accounts payable	\$	—\$ 151.4
Employee compensation and benefits	—	61.5
Other current liabilities	—	143.3
Current liabilities held for sale	\$	—\$ 356.2
Pension and other post-retirement compensation and benefits	\$	—\$ 32.2
Deferred tax liabilities	—	162.8
Asbestos-related liabilities	—	228.3
Other non-current liabilities	—	82.6
Non-current liabilities held for sale	\$	—\$ 505.9

3. Share Plans

Total share-based compensation expense for the three and six months ended June 30, 2017 and 2016 was as follows:

In millions	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Restricted stock units	\$ 5.5	\$ 3.6	\$ 11.3	\$ 10.6
Stock options	2.0	1.8	6.5	7.2
Performance share units	2.1	0.8	8.2	4.5
Total share-based compensation expense	\$ 9.6	\$ 6.2	\$ 26.0	\$ 22.3

In the first quarter of 2017, we issued our annual share-based compensation grants under the Pentair plc 2012 Stock and Incentive Plan to eligible employees. The total number of awards issued was approximately 1.4 million, of which 0.3 million were restricted stock units, 0.9 million were stock options and 0.2 million were performance share units. The weighted-average grant date fair value of the restricted stock units, stock options and performance share units issued was \$58.93, \$12.57 and \$58.41, respectively.

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Notes to condensed consolidated financial statements (unaudited)

We estimated the fair value of each stock option award issued in the annual share-based compensation grant using a Black-Scholes option pricing model, modified for dividends and using the following assumptions:

	2017
	Annual
	Grant
Risk-free interest rate	1.61 %
Expected dividend yield	2.38 %
Expected share price volatility	26.9 %
Expected term (years)	6.3

These estimates require us to make assumptions based on historical results, observance of trends in our share price, changes in option exercise behavior, future expectations and other relevant factors. If other assumptions had been used, share-based compensation expense, as calculated and recorded under the accounting guidance, could have been affected.

We based the expected life assumption on historical experience as well as the terms and vesting periods of the options granted. For purposes of determining expected share price volatility, we considered a rolling average of historical volatility measured over a period approximately equal to the expected option term. The risk-free interest rate for periods that coincide with the expected life of the options is based on the U.S. Treasury Department yield curve in effect at the time of grant.

4. Restructuring

During the six months ended June 30, 2017 and the year ended December 31, 2016, we continued execution of certain business restructuring initiatives aimed at reducing our fixed cost structure and realigning our business. Initiatives during the six months ended June 30, 2017 included the reduction in hourly and salaried headcount of approximately 300 employees, consisting of approximately 150 in Water and 150 in Electrical. Initiatives during the year ended December 31, 2016 included the reduction in hourly and salaried headcount of approximately 650 employees, consisting of approximately 300 in Water and 350 in Electrical.

Restructuring related costs included in Selling, general and administrative expenses in the Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) included costs for severance and other restructuring costs as follows:

	Three months ended		Six months ended	
In millions	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Severance and related costs	\$ 12.8	\$ 11.3	\$33.4	\$ 11.9
Other	—	0.8	0.3	0.7
Total restructuring costs	\$ 12.8	\$ 12.1	\$33.7	\$ 12.6

Other restructuring costs primarily consist of asset impairment and various contract termination costs.

Restructuring costs by reportable segment were as follows:

	Three months ended		Six months ended	
In millions	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Water	\$5.8	\$ 7.5	\$12.9	\$ 6.9
Electrical	3.7	3.7	13.0	3.9
Other	3.3	0.9	7.8	1.8
Consolidated	\$12.8	\$ 12.1	\$33.7	\$ 12.6

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Notes to condensed consolidated financial statements (unaudited)

Activity related to accrued severance and related costs recorded in Other current liabilities in the Condensed Consolidated Balance Sheets is summarized as follows for the six months ended June 30, 2017:

In millions	June 30, 2017
Beginning balance	\$ 25.4
Costs incurred	33.4
Cash payments and other (23.1)	
Ending balance	\$ 35.7

5. Earnings Per Share

Basic and diluted earnings per share were calculated as follows:

In millions, except per-share data	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Net income	\$ 263.7	\$ 142.8	\$ 351.5	\$ 250.2
Net income from continuing operations	\$ 68.3	\$ 132.7	\$ 149.0	\$ 224.5
Weighted average ordinary shares outstanding				
Basic	181.7	180.9	181.9	180.8
Dilutive impact of stock options, restricted stock units and performance share units	2.1	2.1	2.0	2.0
Diluted	183.8	183.0	183.9	182.8
Earnings per ordinary share				
Basic				
Continuing operations	\$ 0.37	\$ 0.73	\$ 0.82	\$ 1.24
Discontinued operations	1.08	0.06	1.11	0.14
Basic earnings per ordinary share	\$ 1.45	\$ 0.79	\$ 1.93	\$ 1.38
Diluted				
Continuing operations	\$ 0.37	\$ 0.73	\$ 0.81	\$ 1.23
Discontinued operations	1.06	0.05	1.10	0.14
Diluted earnings per ordinary share	\$ 1.43	\$ 0.78	\$ 1.91	\$ 1.37
Anti-dilutive stock options excluded from the calculation of diluted earnings per share	1.7	1.2	1.9	2.0

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Notes to condensed consolidated financial statements (unaudited)

6. Supplemental Balance Sheet Information

In millions	June 30, December 31,	
	2017	2016
Inventories		
Raw materials and supplies	\$ 240.0	\$ 223.5
Work-in-process	76.9	67.3
Finished goods	248.5	233.4
Total inventories	\$ 565.4	\$ 524.2
Other current assets		
Cost in excess of billings	\$ 113.6	\$ 107.7
Prepaid expenses	93.6	68.7
Prepaid income taxes	31.9	67.2
Other current assets	8.0	9.8
Total other current assets	\$ 247.1	\$ 253.4
Property, plant and equipment, net		
Land and land improvements	\$ 69.6	\$ 66.2
Buildings and leasehold improvements	348.1	335.0
Machinery and equipment	984.2	932.5
Construction in progress	44.3	68.6
Total property, plant and equipment	1,446.2	1,402.3
Accumulated depreciation and amortization	895.3	863.7
Total property, plant and equipment, net	\$ 550.9	\$ 538.6
Other non-current assets		
Deferred income taxes	\$ 37.3	\$ 39.0
Prepaid income taxes	252.2	—
Deferred compensation plan assets	46.3	47.9
Other non-current assets	89.1	95.2
Total other non-current assets	\$ 424.9	\$ 182.1
Other current liabilities		
Dividends payable	\$ 62.6	\$ 61.8
Accrued warranty	41.0	38.9
Accrued rebates	88.2	78.2
Billings in excess of cost	35.3	22.5
Income taxes payable	—	87.3
Accrued restructuring	35.7	25.4
Other current liabilities	233.7	197.4
Total other current liabilities	\$ 496.5	\$ 511.5
Other non-current liabilities		
Income taxes payable	\$ 35.2	\$ 36.1
Self-insurance liabilities	49.8	49.8
Deferred compensation plan liabilities	46.3	47.9
Other non-current liabilities	72.1	28.2
Total other non-current liabilities	\$ 203.4	\$ 162.0

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7. Goodwill and Other Identifiable Intangible Assets

The changes in the carrying amount of goodwill by segment were as follows:

In millions	December 31, 2016	Acquisitions/divestitures	Foreign currency translation/other	June 30, 2017
Water	\$ 1,994.6	\$ 27.7	\$ 58.2	\$ 2,080.5
Electrical	2,222.8	5.3	5.6	2,233.7
Total goodwill	\$ 4,217.4	\$ 33.0	\$ 63.8	\$ 4,314.2

Identifiable intangible assets consisted of the following:

In millions	June 30, 2017	Cost	Accumulated amortization	Net	December 31, 2016	Cost	Accumulated amortization	Net
Finite-life intangibles								
Customer relationships		\$ 1,507.6	\$ (392.2)	\$ 1,115.4		\$ 1,478.0	\$ (346.7)	\$ 1,131.3
Trade names		1.9	(1.5)	0.4		1.8	(1.4)	0.4
Proprietary technology and patents		142.8	(100.0)	42.8		141.3	(100.3)	41.0
Total finite-life intangibles		1,652.3	(493.7)	1,158.6		1,621.1	(448.4)	1,172.7
Indefinite-life intangibles								
Trade names		465.7	—	465.7		459.1	—	459.1
Total intangibles, net		\$ 2,118.0	\$ (493.7)	\$ 1,624.3		\$ 2,080.2	\$ (448.4)	\$ 1,631.8

Intangible asset amortization expense was \$24.6 million and \$24.3 million for the three months ended June 30, 2017 and 2016, respectively, and \$48.6 million and \$48.5 million for the six months ended June 30, 2017 and 2016, respectively.

Estimated future amortization expense for identifiable intangible assets during the remainder of 2017 and the next five years is as follows:

	Q3-Q4					
In millions	2017	2018	2019	2020	2021	2022
Estimated amortization expense	\$ 48.7	\$ 95.4	\$ 88.5	\$ 83.4	\$ 77.1	\$ 70.0

During the first six months of 2017, we completed acquisitions with purchase prices totaling \$59.5 million in cash, net of cash acquired. Identifiable intangible assets acquired included \$19.1 million of definite-lived customer relationships with an estimated useful life of 11 years. The pro-forma impact of these acquisitions was not material

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8. Debt

Debt and the average interest rates on debt outstanding were as follows:

In millions	Average interest rate at June 30, 2017	Maturity Year	June 30, 2017	December 31, 2016
Commercial paper	—	2019	\$ —	\$ 398.7
Revolving credit facilities	—	2019	—	576.8
Senior notes - fixed rate ⁽¹⁾	1.875%	2017	350.0	350.0
Senior notes - fixed rate ⁽¹⁾	2.900%	2018	255.3	500.0
Senior notes - fixed rate ⁽¹⁾	2.650%	2019	250.0	250.0
Senior notes - fixed rate - Euro ⁽¹⁾	2.450%	2019	567.0	520.7
Senior notes - fixed rate ⁽¹⁾	3.625%	2020	74.0	400.0
Senior notes - fixed rate ⁽¹⁾	5.000%	2021	103.8	500.0
Senior notes - fixed rate ⁽¹⁾	3.150%	2022	88.3	550.0
Senior notes - fixed rate ⁽¹⁾	4.650%	2025	19.3	250.0
Other	N/A	N/A	0.3	0.8
Unamortized debt issuance costs and discounts	N/A	N/A	(8.8)	(17.8)
Total debt			1,699.2	4,279.2
Less: Current maturities and short-term borrowings			(0.3)	(0.8)
Long-term debt			\$ 1,698.9	\$ 4,278.4

⁽¹⁾ Senior notes are guaranteed as to payment by Pentair plc and PISG

In October 2014, Pentair plc, Pentair Investments Switzerland GmbH ("PISG"), Pentair Finance S.à r.l. ("PFSA") and Pentair, Inc. entered into an amended and restated credit agreement (the "Credit Facility"), with Pentair plc and PISG as guarantors and PFSA and Pentair, Inc. as borrowers. The Credit Facility had a maximum aggregate availability of \$2,100.0 million and a maturity date of October 3, 2019. Borrowings under the Credit Facility generally bear interest at a variable rate equal to the London Interbank Offered Rate ("LIBOR") plus a specified margin based upon PFSA's credit ratings. PFSA must pay a facility fee ranging from 9.0 to 25.0 basis points per annum (based upon PFSA's credit ratings) on the amount of each lender's commitment and letter of credit fee for each letter of credit issued and outstanding under the Credit Facility.

In August 2015, Pentair plc, PISG and PFSA entered into a First Amendment to the Credit Facility (the "First Amendment"), which, among other things, increased the Leverage Ratio (as defined below). In September 2015, Pentair plc, PISG and PFSA entered into a Second Amendment to the Credit Facility (the "Second Amendment"), which, among other things, increased the maximum aggregate availability to \$2,500.0 million. Additionally, in September 2016, Pentair plc, PISG and PFSA entered into a Third Amendment to the Credit Facility (the "Third Amendment," and collectively with the First Amendment and the Second Amendment, the "Amendments"), which, among other things, increased the Leverage Ratio to the amounts specified below, and amended the definition of EBITDA to include earnings from discontinued operations for operations subject to a sale agreement until such disposition actually occurs.

In May 2017, we repurchased aggregate principal of certain series of outstanding notes totaling \$1,659.3 million. All costs associated with the repurchases were recorded as Loss on early extinguishment of debt, including \$6.5 million of unamortized deferred financing costs.

PFSA is authorized to sell short-term commercial paper notes to the extent availability exists under the Credit Facility. PFSA uses the Credit Facility as back-up liquidity to support 100% of commercial paper outstanding. PFSA had no commercial paper outstanding as of June 30, 2017 and \$398.7 million as of December 31, 2016, all of which was classified as long-term debt as we have the intent and the ability to refinance such obligations on a long-term basis under the Credit Facility.

Our debt agreements contain certain financial covenants, the most restrictive of which are in the Credit Facility (as updated for the Amendments), including that we may not permit (i) the ratio of our consolidated debt plus synthetic lease obligations to our

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consolidated net income (excluding, among other things, non-cash gains and losses) before interest, taxes, depreciation, amortization, non-cash share-based compensation expense, and up to a lifetime maximum \$25.0 million of costs, fees and expenses incurred in connection with certain acquisitions, investments, dispositions and the issuance, repayment or refinancing of debt, ("EBITDA") for the four consecutive fiscal quarters then ended (the "Leverage Ratio") to exceed (a) 4.00 to 1.00 as of the last day of the period of four consecutive fiscal quarters ending on June 30, 2017; and (b) 3.50 to 1.00 as of the last day of any period of four consecutive fiscal quarters ending thereafter, and (ii) the ratio of our EBITDA for the four consecutive fiscal quarters then ended to our consolidated interest expense, including consolidated yield or discount accrued as to outstanding securitization obligations (if any), for the same period to be less than 3.00 to 1.00 as of the end of each fiscal quarter. For purposes of the Leverage Ratio, the Credit Facility provides for the calculation of EBITDA giving pro forma effect to certain acquisitions, divestitures and liquidations during the period to which such calculation relates. As of June 30, 2017, we were in compliance with all financial covenants in our debt agreements.

Total availability under the Credit Facility was \$2,500.0 million as of June 30, 2017, which was limited to \$2,070.4 million by the maximum Leverage Ratio in the Credit Facility's credit agreement.

In addition to the Credit Facility, we have various other credit facilities with an aggregate availability of \$35.1 million, of which there were no outstanding borrowings at June 30, 2017. Borrowings under these credit facilities bear interest at variable rates.

We have \$350.0 million of fixed rate senior notes maturing in September 2017. We classified this debt as long-term as of June 30, 2017 as we have the intent and ability to refinance such obligation on a long-term basis under the Credit Facility.

Debt outstanding, excluding unamortized issuance costs and discounts, at June 30, 2017 matures on a calendar year basis as follows:

	Q3-Q4							
In millions	2017	2018	2019	2020	2021	2022	Thereafter	Total
Contractual debt obligation maturities	\$ 0.3	\$255.3	\$1,167.0	\$74.0	\$103.8	\$88.3	\$ 19.3	\$1,708.0

9. Derivatives and Financial Instruments

Derivative financial instruments

We are exposed to market risk related to changes in foreign currency exchange rates. To manage the volatility related to this exposure, we periodically enter into a variety of derivative financial instruments. Our objective is to reduce, where it is deemed appropriate to do so, fluctuations in earnings and cash flows associated with changes in foreign currency rates. The derivative contracts contain credit risk to the extent that our bank counterparties may be unable to meet the terms of the agreements. The amount of such credit risk is generally limited to the unrealized gains, if any, in such contracts. Such risk is minimized by limiting those counterparties to major financial institutions of high credit quality.

Foreign currency contracts

We conduct business in various locations throughout the world and are subject to market risk due to changes in the value of foreign currencies in relation to our reporting currency, the U.S. dollar. We manage our economic and transaction exposure to certain market-based risks through the use of foreign currency derivative financial instruments. Our objective in holding these derivatives is to reduce the volatility of net earnings and cash flows associated with changes in foreign currency exchange rates. The majority of our foreign currency contracts have an original maturity date of less than one year.

At June 30, 2017 and December 31, 2016, we had outstanding foreign currency derivative contracts with gross notional U.S. dollar equivalent amounts of \$377.9 million and \$475.6 million, respectively. The impact of these contracts on the Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) is not material for any period presented.

Gains or losses on foreign currency contracts designated as hedges are reclassified out of Accumulated Other Comprehensive Loss ("AOCI") and into Selling, general and administrative expense in the Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) upon settlement. Such reclassifications during the three and six months ended June 30, 2017 and 2016 were not material.

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Net investment hedge

We have net investments in foreign subsidiaries that are subject to changes in the foreign currency exchange rate. In September 2015, we designated the €500 million 2.45% Senior Notes due 2019 (the "2019 Euro Notes") as a net investment hedge for a portion of our net investment in our Euro denominated subsidiaries. The gains/losses on the 2019 Euro Notes have been included as a component of the cumulative translation adjustment account within AOCI. As of June 30, 2017 and December 31, 2016, we had a deferred foreign currency loss of \$2.2 million and a gain of \$44.2 million, respectively, in AOCI associated with the net investment hedge activity.

Fair value measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. Assets and liabilities measured at fair value are classified using the following hierarchy, which is based upon the transparency of inputs to the valuation as of the measurement date:

Level 1: Valuation is based on observable inputs such as quoted market prices (unadjusted) for identical assets or liabilities in active markets.

Level 2: Valuation is based on inputs such as quoted market prices for similar assets or liabilities in active markets or other inputs that are observable for the asset or liability, either directly or indirectly, for substantially the full term of the financial instrument.

Level 3: Valuation is based upon other unobservable inputs that are significant to the fair value measurement. In making fair value measurements, observable market data must be used when available. When inputs used to measure fair value fall within different levels of the hierarchy, the level within which the fair value measurement is categorized is based on the lowest level input that is significant to the fair value measurement.

Fair value of financial instruments

The following methods were used to estimate the fair values of each class of financial instruments:

• short-term financial instruments (cash and cash equivalents, accounts and notes receivable, accounts and notes payable and variable-rate debt) — recorded amount approximates fair value because of the short maturity period;
 long-term fixed-rate debt, including current maturities — fair value is based on market quotes available for issuance of debt with similar terms, which are inputs that are classified as Level 2 in the valuation hierarchy defined by the accounting guidance; and
 foreign currency contract agreements — fair values are determined through the use of models that consider various assumptions, including time value, yield curves, as well as other relevant economic measures, which are inputs that are classified as Level 2 in the valuation hierarchy defined by the accounting guidance.

The recorded amounts and estimated fair values of total debt, excluding unamortized issuance costs and discounts, were as follows:

	June 30, 2017		December 31, 2016	
	Recorded Amount	Fair Value	Recorded Amount	Fair Value
In millions				
Variable rate debt	\$0.3	\$0.3	\$976.3	\$976.3
Fixed rate debt	1,707.7	1,735.0	3,320.7	3,427.1
Total debt	\$1,708.0	\$1,735.3	\$4,297.0	\$4,403.4

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Financial assets and liabilities measured at fair value on a recurring and nonrecurring basis were as follows:

In millions	June 30, 2017			
	Level 1	Level 2	Level 3	Total
Recurring fair value measurements				
Foreign currency contract liabilities	\$—	\$(29.1)	\$—	\$(29.1)
Deferred compensation plan assets ⁽¹⁾	40.5	5.8	—	46.3
Total recurring fair value measurements	\$40.5	\$(23.3)	\$—	\$17.2
December 31, 2016				
In millions	Level 1	Level 2	Level 3	Total
Recurring fair value measurements				
Foreign currency contract assets	\$—	\$ 5.5	\$—	\$5.5
Foreign currency contract liabilities	—	(5.4)	—	(5.4)
Deferred compensation plan assets ⁽¹⁾	41.6	6.3	—	47.9
Total recurring fair value measurements	\$41.6	\$ 6.4	\$—	\$48.0

Nonrecurring fair value measurements ⁽²⁾

Deferred compensation plan assets include mutual funds, common/collective trusts and cash equivalents for payment of certain non-qualified benefits for retired, terminated and active employees. The fair value of mutual funds and cash equivalents were based on quoted market prices in active markets. The underlying investments in the common/collective trusts primarily include intermediate and long-term debt securities, corporate debt securities, equity securities and fixed income securities. The overall fair value of the common/collective trusts are based on observable inputs.

During the fourth quarter of 2016, we completed our annual intangible assets impairment review. As a result, we recorded a pre-tax non-cash impairment charge of \$13.3 million for a trade name intangible in 2016. The impairment charge reduced the carrying value of the impacted trade name intangible to \$0. The fair value of trade names is measured using the relief-from-royalty method. This method assumes the trade name has value to the extent that the owner is relieved of the obligation to pay royalties for the benefits received from them. This method requires us to estimate the future revenue for the related brands, the appropriate royalty rate and the weighted average cost of capital.

10. Income Taxes

We manage our affairs so that we are centrally managed and controlled in the U.K. and therefore have our tax residency in the U.K. The provision for income taxes consists of provisions for U.K. and international income taxes. We operate in an international environment with operations in various locations outside the U.K. Accordingly, the consolidated income tax rate is a composite rate reflecting the earnings in the various locations and the applicable rates.

The effective income tax rate for the six months ended June 30, 2017 was 21.6%, compared to 21.5% for 2016. We continue to actively pursue initiatives to reduce our effective tax rate. The tax rate in any quarter can be affected positively or negatively by adjustments that are required to be reported in the specific quarter of resolution.

The liability for uncertain tax positions was \$37.8 million and \$71.1 million at June 30, 2017 and December 31, 2016, respectively. The \$33.3 million reduction in uncertain tax positions between December 31, 2016 and June 30, 2017 is primarily due to the settlement of tax controversies with the Internal Revenue Service and the payment of resulting tax liabilities. We record penalties and interest related to unrecognized tax benefits in Provision for income taxes and Net interest expense, respectively, on the Condensed Consolidated Statements of Operations and Comprehensive Income (Loss), which is consistent with our past practices.

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11. Benefit Plans

Components of net periodic benefit cost for our pension plans for the three and six months ended June 30, 2017 and 2016 were as follows:

In millions	U.S. pension plans				Non-U.S. pension plans			
	Three months ended		Six months ended		Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Service cost	\$2.6	\$ 2.8	\$5.2	\$ 5.6	\$ 1.8	\$ 2.1	\$3.6	\$ 4.2
Interest cost	4.1	4.1	8.2	8.2	0.9	1.1	1.8	2.2
Expected return on plan assets	(2.9)	(2.9)	(5.8)	(5.8)	(0.3)	(0.4)	(0.6)	(0.8)
Net periodic benefit cost	\$3.8	\$ 4.0	\$7.6	\$ 8.0	\$ 2.4	\$ 2.8	\$4.8	\$ 5.6

Components of net periodic benefit cost for our other post-retirement plans for the three and six months ended June 30, 2017 and 2016 were not material.

12. Shareholders' Equity

Share repurchases

In December 2014, the Board of Directors authorized the repurchase of our ordinary shares up to a maximum dollar limit of \$1.0 billion. The authorization expires on December 31, 2019. During the six months ended June 30, 2017, we repurchased 1.5 million of our shares for \$100.0 million pursuant to this authorization. As of June 30, 2017, we had \$700.0 million available for share repurchases under this authorization.

Dividends payable

On December 6, 2016, the Board of Directors approved a plan to increase the 2017 annual cash dividend to \$1.38, which is intended to be paid in four equal quarterly installments. Additionally, on May 9, 2017 the Board of Directors declared a quarterly cash dividend of \$0.345 payable on August 4, 2017 to shareholders of record at the close of business on July 21, 2017. As a result, the balance of dividends payable included in Other current liabilities on our Consolidated Balance Sheets was \$62.6 million and \$61.8 million at June 30, 2017 and December 31, 2016, respectively.

13. Segment Information

During the first quarter of 2017, we reorganized our business segments to reflect a new operating structure, resulting in a change to our reporting segments in 2017. The prior period information was recast to be comparable to the current year presentation.

We evaluate performance based on net sales and segment income (loss) and use a variety of ratios to measure performance of our reporting segments. These results are not necessarily indicative of the results of operations that would have occurred had each segment been an independent, stand-alone entity during the periods presented. Segment income (loss) represents equity income of unconsolidated subsidiaries and operating income exclusive of intangible amortization, certain acquisition related expenses, costs of restructuring activities, "mark-to-market" gain/loss for pension and other post-retirement plans, impairments and other unusual non-operating items.

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Financial information by reportable segment is as follows:

In millions	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Net sales				
Water	\$753.7	\$761.7	\$1,436.6	\$1,427.4
Electrical	513.2	540.6	1,015.4	1,065.2
Other	(1.6)	(1.1)	(3.2)	(1.4)
Consolidated	\$1,265.3	\$1,301.2	\$2,448.8	\$2,491.2
Segment income (loss)				
Water	\$161.0	\$153.6	\$277.0	\$254.8
Electrical	112.8	111.6	216.3	224.4
Other	(18.6)	(24.2)	(54.6)	(60.3)
Consolidated	\$255.2	\$241.0	\$438.7	\$418.9

The following table presents a reconciliation of consolidated segment income to consolidated income from continuing operations before income taxes:

In millions	Three months ended		Six months ended	
	June 30, 2017	June 30, 2016	June 30, 2017	June 30, 2016
Segment income	\$255.2	\$241.0	\$438.7	\$418.9
Restructuring and other	(17.4)	(12.2)	(38.3)	(12.8)
Intangible amortization	(24.6)	(24.3)	(48.6)	(48.5)
Loss of early extinguishment of debt	(101.4)	—	(101.4)	—
Net interest expense	(25.3)	(35.4)	(60.3)	(71.6)
Income from continuing operations before income taxes	\$86.5	\$169.1	\$190.1	\$286.0

14. Commitments and Contingencies

Warranties and guarantees

In connection with the disposition of our businesses or product lines, we may agree to indemnify purchasers for various potential liabilities relating to the sold business, such as pre-closing tax, product liability, warranty, environmental, or other obligations. The subject matter, amounts and duration of any such indemnification obligations vary for each type of liability indemnified and may vary widely from transaction to transaction. Generally, the maximum obligation under such indemnifications is not explicitly stated and as a result, the overall amount of these obligations cannot be reasonably estimated. Historically, we have not made significant payments for these indemnifications. We believe that if we were to incur a loss in any of these matters, the loss would not have a material effect on our financial condition or results of operations.

We recognize, at the inception of a guarantee, a liability for the fair value of the obligation undertaken in issuing the guarantee. In connection with the disposition of the Valves & Controls business, we agreed to indemnify Emerson Electric Co. for certain pre-closing tax liabilities. During the second quarter of 2017, we recorded a liability representing the fair value of our expected future obligation for this matter.

We provide service and warranty policies on our products. Liability under service and warranty policies is based upon a review of historical warranty and service claim experience. Adjustments are made to accruals as claim data and historical experience warrant.

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The changes in the carrying amount of service and product warranties of continuing operations for the six months ended June 30, 2017 were as follows:

In millions	June 30, 2017
Beginning balance	\$ 38.9
Service and product warranty provision	28.3
Payments	(28.3)
Acquisitions	1.6
Foreign currency translation	0.5
Ending balance	\$ 41.0

Stand-by letters of credit, bank guarantees and bonds

In certain situations, Tyco International Ltd., Pentair Ltd.'s former parent company ("Tyco"), guaranteed performance by the flow control business of Pentair Ltd. ("Flow Control") to third parties or provided financial guarantees for financial commitments of Pentair Ltd. In situations where Flow Control and Tyco were unable to obtain a release from these guarantees in connection with the spin-off of Pentair Ltd., we will indemnify Tyco for any losses it suffers as a result of such guarantees.

In disposing of assets or businesses, we often provide representations, warranties and indemnities to cover various risks including unknown damage to the assets, environmental risks involved in the sale of real estate, liability to investigate and remediate environmental contamination at waste disposal sites and manufacturing facilities and unidentified tax liabilities and legal fees related to periods prior to disposition. We do not have the ability to reasonably estimate the potential liability due to the inchoate and unknown nature of these potential liabilities. However, we have no reason to believe that these uncertainties would have a material adverse effect on our financial position, results of operations or cash flows.

In the ordinary course of business, we are required to commit to bonds, letters of credit and bank guarantees that require payments to our customers for any non-performance. The outstanding face value of these instruments fluctuates with the value of our projects in process and in our backlog. In addition, we issue financial stand-by letters of credit primarily to secure our performance to third parties under self-insurance programs.

As of June 30, 2017 and December 31, 2016, the outstanding value of bonds, letters of credit and bank guarantees totaled \$210.4 million and \$331.0 million, respectively.

15. Supplemental Guarantor Information

Pentair plc (the "Parent Company Guarantor") and PISG (the "Subsidiary Guarantor"), fully and unconditionally, guarantee the Notes of PFSA (the "Subsidiary Issuer"). The Subsidiary Guarantor is a Switzerland limited liability company and 100 percent-owned subsidiary of the Parent Company Guarantor. The Subsidiary Issuer is a Luxembourg private limited liability company and 100 percent-owned subsidiary of the Subsidiary Guarantor. The guarantees provided by the Parent Company Guarantor and Subsidiary Guarantor are joint and several.

The following supplemental financial information sets forth the Company's Condensed Consolidating Statement of Operations and Comprehensive Income (Loss), Condensed Consolidating Balance Sheets and Condensed Consolidating Statement of Cash Flows by relevant group within the Company: Pentair plc and PISG as the guarantors, PFSA as issuer of the debt and all other non-guarantor subsidiaries. Condensed consolidating financial information for Pentair plc, PISG and PFSA on a stand-alone basis is presented using the equity method of accounting for subsidiaries.

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Condensed Consolidating Statement of Operations and Comprehensive Income (Loss)

Three months ended June 30, 2017

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Net sales	\$ —	\$ —	\$ —	\$ 1,265.3	\$ —	\$ 1,265.3
Cost of goods sold	—	—	—	782.1	—	782.1
Gross profit	—	—	—	483.2	—	483.2
Selling, general and administrative	4.3	0.1	0.1	237.2	—	241.7
Research and development	—	—	—	28.7	—	28.7
Operating income (loss)	(4.3	)(0.1	)(0.1	) 217.3	—	212.8
Loss (earnings) from continuing operations of investment in subsidiaries	(72.6	)(72.7	)(210.9	) —	356.2	—
Other (income) expense:						
Equity income of unconsolidated subsidiaries	—	—	—	(0.4	) —	(0.4)
Loss on early extinguishment of debt	—	—	91.0	10.4	—	101.4
Net interest expense	—	—	21.9	3.4	—	25.3
Income (loss) from continuing operations before income taxes	68.3	72.6	97.9	203.9	(356.2	) 86.5
Provision for income taxes	—	—	—	18.2	—	18.2
Net income (loss) from continuing operations	68.3	72.6	97.9	185.7	(356.2	) 68.3
Loss from discontinued operations, net of tax	—	—	—	(5.2	) —	(5.2)
Gain from sale of discontinued operations, net of tax	—	—	—	200.6	—	200.6
Earnings (loss) from discontinued operations of investment in subsidiaries	195.4	195.4	195.4	—	(586.2	) —
Net income (loss)	\$ 263.7	\$ 268.0	\$ 293.3	\$ 381.1	\$ (942.4	) \$ 263.7
Comprehensive income (loss), net of tax						
Net income (loss)	\$ 263.7	\$ 268.0	\$ 293.3	\$ 381.1	\$ (942.4	) \$ 263.7
Changes in cumulative translation adjustment	392.6	392.6	392.6	392.6	(1,177.8	) 392.6
Changes in market value of derivative financial instruments, net of tax	(0.9	)(0.9	)(0.9	)(0.9	) 2.7	(0.9)
Comprehensive income (loss)	\$ 655.4	\$ 659.7	\$ 685.0	\$ 772.8	\$ (2,117.5	) \$ 655.4

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Condensed Consolidating Statement of Operations and Comprehensive Income (Loss)

Six months ended June 30, 2017

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Net sales	\$ —	\$ —	\$ —	\$ 2,448.8	\$ —	\$ 2,448.8
Cost of goods sold	—	—	—	1,543.3	—	1,543.3
Gross profit	—	—	—	905.5	—	905.5
Selling, general and administrative	(3.8	) 0.2	0.4	498.8	—	495.6
Research and development	—	—	—	58.7	—	58.7
Operating income (loss)	3.8	(0.2	) (0.4	) 348.0	—	351.2
Loss (earnings) from continuing operations of investment in subsidiaries	(145.2	) (145.4	) (312.3	) —	602.9	—
Other (income) expense:						
Equity income of unconsolidated subsidiaries	—	—	—	(0.6	) —	(0.6)
Loss on early extinguishment of debt	—	—	91.0	10.4	—	101.4
Net interest expense	—	—	50.3	10.0	—	60.3
Income (loss) from continuing operations before income taxes	149.0	145.2	170.6	328.2	(602.9	) 190.1
Provision for income taxes	—	—	—	41.1	—	41.1
Net income (loss) from continuing operations	149.0	145.2	170.6	287.1	(602.9	) 149.0
Loss from discontinued operations, net of tax	—	—	—	1.9	—	1.9
Gain from sale of discontinued operations, net of tax	—	—	—	200.6	—	200.6
Earnings (loss) from discontinued operations of investment in subsidiaries	202.5	202.5	202.5	—	(607.5	) —
Net income (loss)	\$ 351.5	\$ 347.7	\$ 373.1	\$ 489.6	\$ (1,210.4	) \$ 351.5
Comprehensive income (loss), net of tax						
Net income (loss)	\$ 351.5	\$ 347.7	\$ 373.1	\$ 489.6	\$ (1,210.4	) \$ 351.5
Changes in cumulative translation adjustment	468.3	468.3	468.3	468.3	(1,404.9	) 468.3
Changes in market value of derivative financial instruments, net of tax	0.7	0.7	0.7	0.7	(2.1	) 0.7
Comprehensive income (loss)	\$ 820.5	\$ 816.7	\$ 842.1	\$ 958.6	\$ (2,617.4	) \$ 820.5

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Balance Sheet

June 30, 2017

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Assets						
Current assets						
Cash and cash equivalents	\$0.1	\$—	\$ 51.0	\$ 126.7	\$—	\$ 177.8
Accounts and notes receivable, net	3.4	—	—	761.1	—	764.5
Inventories	—	—	—	565.4	—	565.4
Other current assets	2.3	1.9	—	239.9	3.0	247.1
Total current assets	5.8	1.9	51.0	1,693.1	3.0	1,754.8
Property, plant and equipment, net	—	—	—	550.9	—	550.9
Other assets						
Investments in subsidiaries	4,821.0	4,819.2	7,078.4	—	(16,718.6)	—
Goodwill	—	—	—	4,314.2	—	4,314.2
Intangibles, net	—	—	—	1,624.3	—	1,624.3
Other non-current assets	195.4	1.2	570.6	985.8	(1,328.1)	424.9
Total other assets	5,016.4	4,820.4	7,649.0	6,924.3	(18,046.7)	6,363.4
Total assets	\$5,022.2	\$4,822.3	\$7,700.0	\$9,168.3	\$(18,043.7)	\$8,669.1
Liabilities and Equity						
Current liabilities						
Current maturities of long-term debt and short-term borrowings	\$—	\$—	\$—	\$ 0.3	\$—	\$ 0.3
Accounts payable	0.3	—	—	407.5	—	407.8
Employee compensation and benefits	0.1	—	—	143.7	—	143.8
Other current liabilities	83.4	1.3	21.4	387.4	3.0	496.5
Total current liabilities	83.8	1.3	21.4	938.9	3.0	1,048.4
Other liabilities						
Long-term debt	—	—	2,834.0	193.0	(1,328.1)	1,698.9
Pension and other post-retirement compensation and benefits	—	—	—	268.4	—	268.4
Deferred tax liabilities	—	—	—	546.5	—	546.5
Other non-current liabilities	34.9	—	—	168.5	—	203.4
Total liabilities	118.7	1.3	2,855.4	2,115.3	(1,325.1)	3,765.6
Equity	4,903.5	4,821.0	4,844.6	7,053.0	(16,718.6)	4,903.5
Total liabilities and equity	\$5,022.2	\$4,822.3	\$7,700.0	\$9,168.3	\$(18,043.7)	\$8,669.1

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Statement of Cash Flows

Six months ended June 30, 2017

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Operating activities						
Net cash provided by (used for) operating activities	\$ 165.8	\$ 347.1	\$ 378.1	\$ 474.7	\$ (1,210.4)	\$ 155.3
Investing activities						
Capital expenditures	—	—	—	(37.6)	—	(37.6)
Proceeds from sale of property and equipment	—	—	—	3.8	—	3.8
Proceeds from sale of businesses, net	—	—	2,765.6	—	—	2,765.6
Acquisitions, net of cash acquired	—	—	—	(59.5)	—	(59.5)
Net intercompany loan activity	—	—	170.1	256.2	(426.3)	—
Net cash provided by (used for) investing activities of continuing operations	—	—	2,935.7	162.9	(426.3)	2,672.3
Net cash provided by (used for) investing activities of discontinued operations	—	—	—	(6.5)	—	(6.5)
Net cash provided by (used for) investing activities	—	—	2,935.7	156.4	(426.3)	2,665.8
Financing activities						
Net repayments of short-term borrowings	—	—	—	(0.5)	—	(0.5)
Net repayments of commercial paper and revolving long-term debt	—	—	(298.7)	(676.8)	—	(975.5)
Repayments of long-term debt	—	—	(1,567.8)	(91.5)	—	(1,659.3)
Premium paid on early extinguishment of debt	—	—	(86.0)	(8.9)	—	(94.9)
Net change in advances to subsidiaries	(5.7)	(347.1)	(1,356.7)	72.8	1,636.7	—
Shares issued to employees, net of shares withheld	2.8	—	—	26.7	—	29.5
Repurchases of ordinary shares	(100.0)	—	—	—	—	(100.0)
Dividends paid	(62.8)	—	—	(63.3)	—	(126.1)
Net cash provided by (used for) financing activities	(165.7)	(347.1)	(3,309.2)	(741.5)	1,636.7	(2,926.8)
Effect of exchange rate changes on cash and cash equivalents	—	—	46.4	(1.4)	—	45.0
Change in cash and cash equivalents	0.1	—	51.0	(111.8)	—	(60.7)
Cash and cash equivalents, beginning of period	—	—	—	238.5	—	238.5
Cash and cash equivalents, end of period	\$ 0.1	\$ —	\$ 51.0	\$ 126.7	\$ —	\$ 177.8

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Statement of Operations and Comprehensive Income (Loss)

Three months ended June 30, 2016

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Net sales	\$ —	\$ —	\$ —	\$ 1,301.2	\$ —	\$ 1,301.2
Cost of goods sold	—	—	—	819.4	—	819.4
Gross profit	—	—	—	481.8	—	481.8
Selling, general and administrative	—	—	—	249.7	—	249.7
Research and development	—	—	—	28.7	—	28.7
Operating income				203.4	—	203.4
Loss (earnings) from continuing operations of investment in subsidiaries	(132.6)	(132.6)	(161.4)	—	426.6	—
Other (income) expense:						
Equity income of unconsolidated subsidiaries	—	—	—	(1.1)	—	(1.1)
Net interest expense	—	—	28.8	6.6	—	35.4
Income (loss) from continuing operations before income taxes	132.6	132.6	132.6	197.9	(426.6)	169.1
Provision (benefit) for income taxes	(0.1)	—	—	36.5	—	36.4
Net income (loss) from continuing operations	132.7	132.6	132.6	161.4	(426.6)	132.7
Income from discontinued operations, net of tax	—	—	—	10.1	—	10.1
Earnings (loss) from discontinued operations of investment in subsidiaries	10.1	10.1	10.1	—	(30.3)	—
Net income (loss)	\$ 142.8	\$ 142.7	\$ 142.7	\$ 171.5	\$ (456.9)	\$ 142.8
Comprehensive income (loss), net of tax						
Net income (loss)	\$ 142.8	\$ 142.7	\$ 142.7	\$ 171.5	\$ (456.9)	\$ 142.8
Changes in cumulative translation adjustment	(25.8)	(25.8)	(25.8)	(25.8)	77.4	(25.8)
Changes in market value of derivative financial instruments, net of tax	10.9	10.9	10.9	10.9	(32.7)	10.9
Comprehensive income (loss)	\$ 127.9	\$ 127.8	\$ 127.8	\$ 156.6	\$ (412.2)	\$ 127.9

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Statement of Operations and Comprehensive Income (Loss)

Six months ended June 30, 2016

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total	
Net sales	\$ —	\$ —	\$ —	\$ 2,491.2	\$ —	\$ 2,491.2	
Cost of goods sold	—	—	—	1,578.1	—	1,578.1	
Gross profit	—	—	—	913.1	—	913.1	
Selling, general and administrative	7.1	—	0.9	491.8	—	499.8	
Research and development	—	—	—	57.2	—	57.2	
Operating income (loss)	(7.1	) —	(0.9	) 364.1	—	356.1	
Loss (earnings) from continuing operations of investment in subsidiaries	(231.5	) (231.5	) (288.6	) —	751.6	—	
Other (income) expense:							
Equity income of unconsolidated subsidiaries	—	—	—	(1.5	) —	(1.5	)
Net interest expense	—	—	56.2	15.4	—	71.6	
Income (loss) from continuing operations before income taxes	224.4	231.5	231.5	350.2	(751.6	) 286.0	
Provision (benefit) for income taxes	(0.1	) —	—	61.6	—	61.5	
Net income (loss) from continuing operations	224.5	231.5	231.5	288.6	(751.6	) 224.5	
Income from discontinued operations, net of tax	—	—	—	25.7	—	25.7	
Earnings (loss) from discontinued operations of investment in subsidiaries	25.7	25.7	25.7	—	(77.1	) —	
Net income (loss)	\$ 250.2	\$ 257.2	\$ 257.2	\$ 314.3	\$ (828.7	) \$ 250.2	
Comprehensive income (loss), net of tax							
Net income (loss)	\$ 250.2	\$ 257.2	\$ 257.2	\$ 314.3	\$ (828.7	) \$ 250.2	
Changes in cumulative translation adjustment	2.2	2.2	2.2	2.2	(6.6	) 2.2	
Changes in market value of derivative financial instruments, net of tax	(3.8	) (3.8	) (3.8	) (3.8	) 11.4	(3.8	)
Comprehensive income (loss)	\$ 248.6	\$ 255.6	\$ 255.6	\$ 312.7	\$ (823.9	) \$ 248.6	

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Balance Sheet

December 31, 2016

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Assets						
Current assets						
Cash and cash equivalents	\$—	\$—	\$—	\$ 238.5	\$—	\$ 238.5
Accounts and notes receivable, net	0.1	—	—	763.9	—	764.0
Inventories	—	—	—	524.2	—	524.2
Other current assets	1.2	4.1	1.1	237.8	9.2	253.4
Current assets held for sale	—	—	—	891.9	—	891.9
Total current assets	1.3	4.1	1.1	2,656.3	9.2	2,672.0
Property, plant and equipment, net	—	—	—	538.6	—	538.6
Other assets						
Investments in subsidiaries	4,509.5	4,471.4	9,295.5	—	(18,276.4)	—
Goodwill	—	—	—	4,217.4	—	4,217.4
Intangibles, net	—	—	—	1,631.8	—	1,631.8
Other non-current assets	2.2	35.2	717.8	1,568.9	(2,142.0)	182.1
Non-current assets held for sale	—	—	—	2,292.9	—	2,292.9
Total other assets	4,511.7	4,506.6	10,013.3	9,711.0	(20,418.4)	8,324.2
Total assets	\$4,513.0	\$4,510.7	\$10,014.4	\$12,905.9	\$(20,409.2)	\$11,534.8
Liabilities and Equity						
Current liabilities						
Current maturities of long-term debt and short-term borrowings	\$—	\$—	\$—	\$ 0.8	\$—	\$ 0.8
Accounts payable	0.7	—	0.1	435.8	—	436.6
Employee compensation and benefits	0.8	—	—	165.3	—	166.1
Other current liabilities	95.2	1.2	26.7	379.2	9.2	511.5
Current liabilities held for sale	—	—	—	356.2	—	356.2
Total current liabilities	96.7	1.2	26.8	1,337.3	9.2	1,471.2
Other liabilities						
Long-term debt	148.1	—	5,515.9	756.4	(2,142.0)	4,278.4
Pension and other post-retirement compensation and benefits	—	—	—	253.4	—	253.4
Deferred tax liabilities	—	—	—	609.5	—	609.5
Other non-current liabilities	13.8	—	—	148.2	—	162.0
Non-current liabilities held for sale	—	—	—	505.9	—	505.9
Total liabilities	258.6	1.2	5,542.7	3,610.7	(2,132.8)	7,280.4
Equity	4,254.4	4,509.5	4,471.7	9,295.2	(18,276.4)	4,254.4
Total liabilities and equity	\$4,513.0	\$4,510.7	\$10,014.4	\$12,905.9	\$(20,409.2)	\$11,534.8

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Pentair plc and Subsidiaries

Notes to condensed consolidated financial statements (unaudited)

Condensed Consolidating Statement of Cash Flows

Six months ended June 30, 2016

In millions	Parent Company Guarantor	Subsidiary Guarantor	Subsidiary Issuer	Non-guarantor Subsidiaries	Eliminations	Consolidated Total
Operating activities						
Net cash provided by (used for) operating activities	\$ 269.2	\$ 241.3	\$ 268.6	\$ 419.2	\$ (828.8)	\$ 369.5
Investing activities						
Capital expenditures	—	—	—	(64.0)	—	(64.0)
Proceeds from sale of property and equipment	—	—	—	7.6	—	7.6
Net intercompany loan activity	—	—	431.2	(65.4)	(365.8)	—
Other	—	—	—	(3.7)	—	(3.7)
Net cash provided by (used for) investing activities of continuing operations	—	—	431.2	(125.5)	(365.8)	(60.1)
Net cash provided by (used for) investing activities of discontinued operations	—	—	—	(8.0)	—	(8.0)
Net cash provided by (used for) investing activities	—	—	431.2	(133.5)	(365.8)	(68.1)
Financing activities						
Net repayments of commercial paper and revolving long-term debt	—	—	(123.1)	(16.7)	—	(139.8)
Repayments of long-term debt	—	—	—	(0.7)	—	(0.7)
Net change in advances to subsidiaries	(157.8)	(241.3)	(579.5)	(215.9)	1,194.5	—
Excess tax benefits from share-based compensation	—	—	—	3.2	—	3.2
Shares issued to employees, net of shares withheld	8.3	—	—	—	—	8.3
Dividends paid	(119.7)	—	—	—	—	(119.7)
Net cash provided by (used for) financing activities	(269.2)	(241.3)	(702.6)	(230.1)	1,194.5	(248.7)
Effect of exchange rate changes on cash and cash equivalents	—	—	2.8	(8.5)	—	(5.7)
Change in cash and cash equivalents	—	—	—	47.1	(0.1)	47.0
Cash and cash equivalents, beginning of period	—	—	0.1	126.2	—	126.3
Cash and cash equivalents, end of period	\$ —	\$ —	\$ 0.1	\$ 173.3	\$ (0.1)	\$ 173.3

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ITEM 2. MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Forward-looking Statements

This report contains statements that we believe to be "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. All statements, other than statements of historical fact are forward-looking statements. Without limitation, any statements preceded or followed by or that include the words "targets," "plans," "believes," "expects," "intends," "will," "likely," "may," "anticipates," "estimates," "projects," "should," "would," "positioned," "strategy," "future" or words, phrases or terms of similar substance or the negative thereof, are forward-looking statements. These forward-looking statements are not guarantees of future performance and are subject to risks, uncertainties, assumptions and other factors, some of which are beyond our control, which could cause actual results to differ materially from those expressed or implied by such forward-looking statements. These factors include the ability to satisfy the necessary conditions to consummate the Proposed Separation on a timely basis or at all; the ability to successfully separate the Water and Electrical businesses and realize the anticipated benefits from the Proposed Separation; adverse effects on the Water and Electrical business operations or financial results and the market price of our shares as a result of the announcement or consummation of the Proposed Separation; unanticipated transaction expenses, such as litigation or legal settlement expenses; failure to obtain tax rulings or changes in tax laws; changes in capital market conditions; the impact of the Proposed Separation on our employees, customers and suppliers; overall global economic and business conditions impacting the Water and Electrical businesses; future opportunities that our board may determine present greater potential to increase shareholder value; the ability of the Water and Electrical businesses to operate independently following the Proposed Separation; the ability to achieve the benefits of our restructuring plans; the ability to successfully identify, finance, complete and integrate acquisitions; competition and pricing pressures in the markets we serve; the strength of housing and related markets; volatility in currency exchange rates and commodity prices; inability to generate savings from excellence in operations initiatives consisting of lean enterprise, supply management and cash flow practices; increased risks associated with operating foreign businesses; the ability to deliver backlog and win future project work; failure of markets to accept new product introductions and enhancements; the impact of changes in laws and regulations, including those that limit U.S. tax benefits; the outcome of litigation and governmental proceedings; and the ability to achieve our long-term strategic operating goals. Additional information concerning these and other factors is contained in our filings with the SEC, including this Quarterly Report on Form 10-Q. All forward-looking statements speak only as of the date of this report. Pentair plc assumes no obligation, and disclaims any obligation, to update the information contained in this report.

Overview

The terms "us," "we" "our" or "Pentair" refer to Pentair plc and its consolidated subsidiaries. We are a focused diversified industrial manufacturing company comprising two reporting segments: Water and Electrical. For the first six months of 2017, the Water segment and the Electrical segment represented approximately 59% and 41% of total revenues, respectively. We classify our operations into business segments based primarily on types of products offered and markets served:

Water — The Water segment designs, manufactures and services innovative products and solutions to meet filtration, separation, flow and water management challenges in agriculture, aquaculture, foodservice, food and beverage processing, swimming pools, water supply and disposal and a variety of industrial applications.

Electrical — The Electrical segment designs, manufactures and services products that protect some of the world's most sensitive equipment, as well as heat management solutions designed to provide thermal protection to temperature sensitive fluid applications and engineered electrical and fastening products for electrical, mechanical and civil applications.

On April 28, 2017, we completed the sale of our Valves & Controls business to Emerson Electric Co. ("Emerson") for \$3.15 billion, subject to customary working capital adjustments. The sale resulted in a gain, net of tax, of \$200.6 million. The results of the Valves & Controls business have been presented as discontinued operations and the related assets and liabilities have been reclassified as held for sale for all periods presented. The Valves & Controls business was previously disclosed as a stand-alone reporting segment.

On May 9, 2017, we announced that our Board of Directors approved a plan to separate our Water business and Electrical business into two independent, publicly-traded companies (the "Proposed Separation"). The Proposed Separation is expected to occur through a tax-free spin-off of the Electrical business to Pentair shareholders.

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Completion of the Proposed Separation is subject to certain customary conditions, including, among other things, final approval of the transaction by Pentair's Board of Directors, receipt of tax opinions and rulings and effectiveness of appropriate filings with the SEC. Upon completion of the Proposed Separation, it is anticipated that Electrical's jurisdiction of organization will be Ireland, but that it will manage its affairs so that it will be centrally managed and controlled in the United Kingdom (the "U.K.") and therefore will have its tax residency in the U.K.

We expect to complete the Proposed Separation in the second quarter of 2018; however, there can be no assurance regarding the ultimate timing of the Proposed Separation or that the Proposed Separation will be completed.

The disclosures within this Management's Discussion and Analysis of Financial Condition and Results of Operations do not reflect the Proposed Separation of the Electrical business.

Key Trends and Uncertainties Regarding Our Existing Business

The following trends and uncertainties affected our financial performance in 2016 and the first six months of 2017 and will likely impact our results in the future:

Despite the favorable long-term outlook for our end-markets, we experience differing levels of volatility depending on the end-market and may continue to do so over the medium and longer term. During 2016 and the first six months of 2017, our core sales have been challenged by broad-based industrial capital expenditure and maintenance deferrals. Although we saw early signs of recovery in the first six months of 2017, we expect this challenge to continue throughout 2017.

We continue to experience declines in project orders, particularly within the energy and infrastructure businesses. We expect headwinds in the energy and infrastructure businesses to continue throughout 2017.

We continued execution of certain business restructuring initiatives aimed at reducing our fixed cost structure

- and realigning our business to offset the negative earnings impact of core revenue decline and foreign exchange. We expect these actions will contribute to margin growth in 2017.

Our results were negatively impacted due to unfavorable foreign currency effects in 2016 and continuing in the first six months of 2017. We expect this trend to continue throughout 2017.

We have identified specific product and geographic market opportunities that we find attractive and continue to pursue, both within and outside the United States. We are reinforcing our businesses to more effectively address these opportunities through research and development and additional sales and marketing resources. Unless we successfully penetrate these markets, our core sales growth will likely be limited or may decline.

We have experienced material and other cost inflation. We strive for productivity improvements, and we implement increases in selling prices to help mitigate this inflation. We expect the current economic environment will result in continuing price volatility for many of our raw materials, and we are uncertain as to the timing and impact of these market changes.

In 2017, our operating objectives include the following:

Reducing long-term debt and overall leverage through improved cash flow performance;

Driving operating excellence through lean enterprise initiatives, with specific focus on sourcing and supply management, cash flow management and lean operations;

- Achieving differentiated revenue growth through new products and global and market expansion;

Optimizing our technological capabilities to increasingly generate innovative new products; and

Focusing on developing global talent in light of our global presence.

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CONSOLIDATED RESULTS OF OPERATIONS

The consolidated results of operations for the three months ended June 30, 2017 and 2016 were as follows:

In millions	Three months ended				
	June 30, 2017	June 30, 2016	\$	% / point change change	
Net sales	\$1,265.3	\$1,301.2	\$(35.9)	(2.8)%	
Cost of goods sold	782.1	819.4	(37.3)	(4.6)%	
Gross profit	483.2	481.8	1.4	0.3 %	
% of net sales	38.2	% 37.0	%	1.2 pts	
Selling, general and administrative	241.7	249.7	(8.0)	(3.2)%	
% of net sales	19.1	% 19.2	%	(0.1) pts	
Research and development	28.7	28.7	—	—	
% of net sales	2.3	% 2.2	%	0.1 pts	
Operating income	212.8	203.4	9.4	4.6 %	
% of net sales	16.8	% 15.6	%	1.2 pts	
Loss on early extinguishment of debt	101.4	—	101.4	N.M.	
Net interest expense	25.3	35.4	(10.1)	(28.5)%	
Income from continuing operations before income taxes	86.5	169.1	(82.6)	(48.8)%	
Provision for income taxes	18.2	36.4	(18.2)	(50.0)%	
Effective tax rate	21.0	% 21.5	%	(0.5) pts	
N.M. Not Meaningful					

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The consolidated results of operations for the six months ended June 30, 2017 and June 30, 2016 were as follows:

In millions	Six months ended			
	June 30, 2017	June 30, 2016	\$ change	% / point change
Net sales	\$2,448.8	\$2,491.2	\$(42.4)	(1.7)%
Cost of goods sold	1,543.3	1,578.1	(34.8)	(2.2)%
Gross profit	905.5	913.1	(7.6)	(0.8)%
% of net sales	37.0	% 36.7	%	0.3 pts
Selling, general and administrative	495.6	499.8	(4.2)	(0.8)%
% of net sales	20.2	% 20.1	%	0.1 pts
Research and development	58.7	57.2	1.5	2.6 %
% of net sales	2.4	% 2.3	%	0.1 pts
Operating income	351.2	356.1	(4.9)	(1.4)%
% of net sales	14.3	% 14.3	%	—%
Loss on early extinguishment of debt	101.4	—	101.4	N.M
Net interest expense	60.3	71.6	(11.3)	(15.8)%
Income from continuing operations before income taxes	190.1	286.0	(95.9)	(33.5)%
Provision for income taxes	41.1	61.5	(20.4)	(33.2)%
Effective tax rate	21.6	% 21.5	%	0.1 pts

N.M. Not Meaningful

Net sales

The components of the consolidated net sales change from the prior period were as follows:

	Three months ended June 30, 2017	Six months ended June 30, 2017
	over the prior year period	over the prior year period
Volume	(3.6)%	(2.7)%
Price	0.5	0.8
Core growth	(3.1)	(1.9)
Acquisition	1.1	0.8
Currency	(0.8)	(0.6)
Total	(2.8)%	(1.7)%

The 2.8 and 1.7 percentage point decreases in net sales in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

• continued slowdown in capital spending, particularly in the energy and infrastructure businesses, driving lower project core sales volume;

• large job adjustments to net sales of \$9.7 million in the first half of 2017; and

•unfavorable foreign currency effects for the three and six months ended June 30, 2017.

These decreases were partially offset by:

- core sales growth in our residential & commercial business, primarily as a result of increased volumes in the U.S.;
- selective increases in selling prices to mitigate inflationary cost increases; and

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increased sales related to business acquisitions that occurred in the fourth quarter of 2016 and the first quarter of 2017.

Gross profit

The 1.2 and 0.3 percentage point increases in gross profit as a percentage of sales in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

- higher contribution margin as a result of savings generated from our Pentair Integrated Management System ("PIMS") initiatives including lean and supply management practices;
- selective increases in selling prices to mitigate inflationary cost increases; and
- favorable mix as a result of the decline in lower margin project sales in the second quarter and first half of 2017, compared to the second quarter and first half of 2016.

These increases were partially offset by:

- lower project core sales volumes in the Electrical segment, which resulted in decreased leverage on fixed expenses included in cost of goods sold; and
- large job adjustments negatively impacting gross profit by \$16.4 million in the first half of 2017.

Selling, general and administrative ("SG&A")

The 0.1 percentage point decrease in SG&A expense as a percentage of sales in the second quarter of 2017 from 2016 was primarily driven by:

- cost control and savings generated from back-office consolidation, reduction in personnel and other lean initiatives.
- The decrease was partially offset by:
- increased investment in sales and marketing to drive growth.

The 0.1 percentage point increase in SG&A expense as a percentage of sales in the first six months of 2017 from 2016 was primarily driven by:

- restructuring costs of \$33.7 million in the first six months of 2017, compared to \$12.6 million in the first six months of 2016; and
- increased investment in sales and marketing to drive growth.

The increase was partially offset by:

- benefit from the reversal of a \$13.3 million indemnification liability in the first quarter of 2017 related to our 2012 transaction with Tyco (now known as Johnson Controls International plc); and
- cost control and savings generated from back-office consolidation, reduction in personnel and other lean initiatives.

Net interest expense

The 28.5 and 15.8 percent decreases in net interest expense in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

- the impact of lower debt levels during the second quarter and first half of 2017, compared to the second quarter and first half of 2016. In May 2017, the proceeds from the sale of the Valves & Controls business were utilized to repay all commercial paper and revolving long term debt and for the early extinguishment of \$1,659.3 million of certain series of fixed rate debt.

These decreases were partially offset by:

- increased overall interest rates in effect on our outstanding debt during the second quarter and first half of 2017, compared to the second quarter and first half of 2016.

Loss on early extinguishment of debt

In May 2017, we repurchased aggregate principal of certain series of outstanding fixed rate debt totaling \$1,659.3 million. All costs associated with the repurchases were recorded as Loss on early extinguishment of debt.

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Provision for income taxes

The 0.5 percentage point decrease in the effective tax rate in the second quarter of 2017 from 2016 was primarily driven by:

- mix of global earnings toward lower tax jurisdictions; and
- the income tax effects of vesting and exercise of share-based awards.

The decrease was partially offset by:

- the tax impact and timing of losses incurred during the second quarter of 2017, compared to the second quarter of 2016.

The 0.1 percentage point increase in the effective tax rate in the first six months of 2017 from 2016 was primarily driven by:

•non-recurring benefits related to resolution of tax disputes and expiration of statutes of limitations during the first half of 2016 that did not recur in the first half of 2017; and

- the tax impact and timing of losses incurred during the first half of 2017, compared to the first half of 2016.

The increase was partially offset by:

- mix of global earnings toward lower tax jurisdictions; and
- the income tax effects of vesting and exercise of share-based awards.

SEGMENT RESULTS OF OPERATIONS

The summary that follows provides a discussion of the results of operations of each of our two reportable segments (Water and Electrical). Each of these segments is comprised of various product offerings that serve multiple end users.

We evaluate the performance of our two reportable segments based on net sales and segment income and use a variety of ratios to measure performance. Segment income represents equity income of unconsolidated subsidiaries and operating income exclusive of intangible amortization, certain acquisition related expenses, costs of restructuring activities, "mark-to-market" gain/loss for pension and other post-retirement plans, impairments and other unusual non-operating items.

Water

The net sales and segment income for the Water segment for the three and six months ended June 30, 2017 and 2016 were as follows:

In millions	Three months ended			Six months ended		
	June 30, 2017	June 30, 2016	% / point change	June 30, 2017	June 30, 2016	% / point change
Net sales	\$753.7	\$761.7	(1.1)%	\$1,436.6	\$1,427.4	0.6 %
Segment income	161.0	153.6	4.8 %	277.0	254.8	8.7 %
% of net sales	21.4	% 20.2	% 1.2 pts	19.3	% 17.9	% 1.4 pts

Net sales

The components of the change in Water net sales from the prior period were as follows:

Three months ended June 30, 2017	Six months ended June 30, 2017
over the prior year	over the prior year

	period	period
Volume	(2.8)%	(1.0)%
Price	0.9	1.1
Core growth	(1.9)	0.1
Acquisition	1.3	0.9
Currency	(0.5)	(0.4)
Total	(1.1)%	0.6 %

The 1.1 percent decrease in net sales for Water in the second quarter of 2017 from 2016 was primarily driven by: core sales declines in our food & beverage vertical due to customer delays in capital spending; and

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unfavorable foreign currency effects during the three months ended June 30, 2017.

The decrease was partially offset by:

core sales growth in our residential & commercial business, primarily as a result of increased volumes in the U.S.;
selective increases in selling prices to mitigate inflationary cost increases; and
increased sales related to business acquisitions that occurred in the fourth quarter of 2016 and the first quarter of 2017.
The 0.6 percentage point increase in net sales for Water in the first six months of 2017 from 2016 was primarily driven by:

core sales growth in our residential & commercial business, primarily as a result of increased volumes in the U.S.;
selective increases in selling prices to mitigate inflationary cost increases; and
increased sales related to business acquisitions that occurred in the fourth quarter of 2016 and the first quarter of 2017.
The increase was partially offset by:
core sales declines in our industrial and food & beverage verticals due to customer delays in capital spending;
unfavorable foreign currency effects during the six months ended June 30, 2017; and
large job adjustments to net sales of \$9.7 million in the first half of 2017.

Segment income

The components of the change in the Water segment income from the prior period were as follows:

	Three months ended June 30, 2017	Six months ended June 30, 2017
	over the prior year period	over the prior year period
Growth	(0.6) pts	(0.7) pts
Acquisition	(0.1)	(0.1)
Inflation	(1.0)	(1.2)
Productivity/Price	2.9	3.4
Total	1.2	pts 1.4

The 1.2 and 1.4 percentage point increases in segment income for Water as a percentage of net sales in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

savings generated from our PIMS initiatives including lean and supply management practices;
cost control and savings generated from back-office consolidation, reduction in personnel and other lean initiatives;
and
selective increases in selling prices to mitigate inflationary cost increases.

These increases were partially offset by:

lower core sales volume in our industrial and food & beverage verticals, which resulted in decreased leverage on operating expenses.

Electrical

The net sales and segment income for the Electrical segment for the three and six months ended June 30, 2017 and 2016 were as follows:

	Three months ended			Six months ended		
In millions	June 30, 2017	June 30, 2016	% / point change	June 30, 2017	June 30, 2016	% / point change
Net sales	\$513.2	\$540.6	(5.1)%	\$1,015.4	\$1,065.2	(4.7)%
Segment income	112.8	111.6	1.1 %	216.3	224.4	(3.6)%
% of net sales	22.0	% 20.6	% 1.4 pts	21.3	% 21.1	% 0.2 pts

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Net sales

The components of the change in the Electrical segment net sales from the prior period were as follows:

	Three months ended June 30, 2017	Six months ended June 30, 2017
	over the prior year period	over the prior year period
Volume	(4.7)%	(4.8)%
Price	—	0.2
Core growth	(4.7)	(4.6)
Acquisition	0.8	0.7
Currency	(1.2)	(0.8)
Total	(5.1)%	(4.7)%

The 5.1 and 4.7 percent decreases in net sales for Electrical in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

• core sales declines in the energy and infrastructure businesses, driven by lower project core sales volume for the three and six months ended June 30, 2017; and

• unfavorable foreign currency effects during the three and six months ended June 30, 2017.

These decreases were partially offset by:

• core sales growth in our industrial and residential & commercial businesses; and

• increased sales related to a business acquisition that occurred in the first quarter of 2017.

Segment income

The components of the change in the Electrical segment income from the prior period were as follows:

	Three months ended June 30, 2017	Six months ended June 30, 2017
	over the prior year period	over the prior year period
Growth	1.1 pts	(0.3) pts
Inflation	(1.9)	(1.9)
Productivity/Price	2.2	2.4
Total	1.4 pts	0.2 pts

The 1.4 and 0.2 percentage point increases in segment income for Electrical as a percentage of net sales in the second quarter and first half, respectively, of 2017 from 2016 were primarily driven by:

• savings generated from our PIMS initiatives including lean and supply management practices;

• favorable mix as a result of the decline in lower margin project sales in the second quarter and first half of 2017, compared to the second quarter and first half of 2016;

• cost control and savings generated from back-office consolidation, reduction in personnel and other lean initiatives; and

• higher core sales in our industrial and residential & commercial businesses during the three and six months ended June 30, 2017, which resulted in increased leverage on operating expenses.

These increases were partially offset by:

- inflationary increases related to labor costs and certain raw materials; and
- lower core sales volumes in our energy and infrastructure businesses, which resulted in decreased leverage on operating expenses.

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LIQUIDITY AND CAPITAL RESOURCES

We generally fund cash requirements for working capital, capital expenditures, equity investments, acquisitions, debt repayments, dividend payments and share repurchases from cash generated from operations, availability under existing committed revolving credit facilities and in certain instances, public and private debt and equity offerings. Our primary revolving credit facilities have generally been adequate for these purposes, although we have negotiated additional credit facilities or completed debt and equity offerings as needed to allow us to complete acquisitions. We intend to issue commercial paper to fund our financing needs on a short-term basis and to use our revolving credit facility as back-up liquidity to support commercial paper.

We are focusing on increasing our cash flow and repaying existing debt, while continuing to fund our research and development, marketing and capital investment initiatives. Our intent is to maintain investment grade credit ratings and a solid liquidity position.

We experience seasonal cash flows primarily due to seasonal demand in a number of markets within both our Water and Electrical segments. We generally borrow in the first quarter of our fiscal year for operational purposes, which usage reverses in the second quarter as the seasonality of our businesses peaks. End-user demand for pool and certain pumping equipment follows warm weather trends and is at seasonal highs from April to August. The magnitude of the sales spike is partially mitigated by employing some advance sale "early buy" programs (generally including extended payment terms and/or additional discounts). Demand for residential and agricultural water systems is also impacted by weather patterns, particularly by heavy flooding and droughts. Additionally, Electrical generally experiences increased demand for thermal protection products and services during the fall and winter months in the Northern Hemisphere and increased demand for electrical fastening products during the spring and summer months in the Northern Hemisphere.

Operating activities

Cash provided by operating activities of continuing operations was \$210.9 million in the first six months of 2017, compared to \$320.9 million in the same period of 2016.

The \$210.9 million in net cash provided by operating activities of continuing operations in the first six months of 2017 primarily reflects net income from continuing operations of \$341.0 million, net of non-cash depreciation and amortization and the loss on early extinguishment of debt, offset by a negative impact by \$130.0 million as a result of changes in net working capital.

The \$320.9 million in net cash provided by operating activities of continuing operations in the first six months of 2016 primarily reflects net income from continuing operations, net of non-cash depreciation and amortization of \$316.5 million and a positive impact of \$26.1 million as a result of changes in net working capital.

Investing activities

Cash provided by investing activities of continuing operations was \$2,672.3 million in the first six months of 2017, compared to \$60.1 million of cash used for investing activities in the same period of 2016. Net cash provided by investing activities of continuing operations in the first six months of 2017 primarily reflects cash received from the sale of the Valves & Controls business, offset by capital expenditures of \$37.6 million and cash paid for acquisitions (net of cash acquired) of \$59.5 million. Net cash used for investing activities of continuing operations in the first six months of 2016 relates primarily to capital expenditures of \$64.0 million, partially offset by \$7.6 million of proceeds from the sale of property and equipment.

We anticipate capital expenditures for fiscal 2017 to be approximately \$90 million, primarily for capacity expansions of manufacturing facilities, developing new products and general maintenance.

Financing activities

Net cash used for financing activities was \$2,926.8 million in the first six months of 2017, compared with net cash used for financing activities of \$248.7 million in the prior year period. As described further below, we utilized the proceeds from the sale of the Valves & Controls business to repay our commercial paper and revolving long term debt and for the early extinguishment of certain series of fixed rate debt. Additionally, we repurchased \$100 million of shares during the first six months of 2017. Net cash used for financing activities in the first six months 2016 primarily relates to payment of dividends and net repayments of commercial paper and revolving long-term debt.

In October 2014, Pentair plc, Pentair Investment Switzerland GmbH ("PISG"), Pentair Finance S.à r.l. ("PFSA") and Pentair, Inc. entered into an amended and restated credit agreement (the "Credit Facility"), with Pentair plc and PISG as guarantors and PFSA and Pentair, Inc. as borrowers. The Credit Facility had a maximum aggregate availability of \$2,100.0 million and a maturity date of October 3, 2019. Borrowings under the Credit Facility generally bear interest at a variable rate equal to the London Interbank Offered Rate ("LIBOR") plus a specified margin based upon PFSA's credit ratings. PFSA must pay a facility

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fee ranging from 9.0 to 25.0 basis points per annum (based upon PFSA's credit ratings) on the amount of each lender's commitment and letter of credit fee for each letter of credit issued and outstanding under the Credit Facility.

In August 2015, Pentair plc, PISG and PFSA entered into a First Amendment to the Credit Facility (the "First Amendment"), which, among other things, increased the Leverage Ratio (as defined below). In September 2015, Pentair plc, PISG and PFSA entered into a Second Amendment to the Credit Facility (the "Second Amendment,"), which, among other things, increased the maximum aggregate availability to \$2,500.0 million. Additionally, in September 2016, Pentair plc, PISG and PFSA entered into a Third Amendment to the Credit Facility (the "Third Amendment," and collectively with the First Amendment and the Second Amendment, the "Amendments"), which, among other things, increased the Leverage Ratio to the amounts specified below, and amended the definition of EBITDA to include earnings from discontinued operations for operations subject to a sale agreement until such disposition actually occurs.

In May 2017, we repurchased aggregate principal of certain series of the respective outstanding notes totaling \$1,659.3 million. All costs associated with the repurchases were recorded as Loss on early extinguishment of debt, including \$6.5 million of unamortized deferred financing costs.

PFSA is authorized to sell short-term commercial paper notes to the extent availability exists under the Credit Facility. PFSA uses the Credit Facility as back-up liquidity to support 100% of commercial paper outstanding. PFSA had no commercial paper outstanding as of June 30, 2017 and \$398.7 million as of December 31, 2016, all of which was classified as long-term debt as we have the intent and the ability to refinance such obligations on a long-term basis under the Credit Facility.

Our debt agreements contain certain financial covenants, the most restrictive of which are in the Credit Facility (as updated for the Amendments), including that we may not permit (i) the ratio of our consolidated debt plus synthetic lease obligations to our consolidated net income (excluding, among other things, non-cash gains and losses) before interest, taxes, depreciation, amortization, non-cash share-based compensation expense, up to a lifetime maximum \$25.0 million of costs, fees and expenses incurred in connection with certain acquisitions, investments, dispositions and the issuance, repayment or refinancing of debt, ("EBITDA") for the four consecutive fiscal quarters then ended (the "Leverage Ratio") to exceed (a) 4.00 to 1.00 as of the last day of any period of four consecutive fiscal quarters ending on June 30, 2017; and (b) 3.50 to 1.00 as of the last day of the period of four consecutive fiscal quarters ending thereafter, and (ii) the ratio of our EBITDA for the four consecutive fiscal quarters then ended to our consolidated interest expense, including consolidated yield or discount accrued as to outstanding securitization obligations (if any), for the same period to be less than 3.00 to 1.00 as of the end of each fiscal quarter. For purposes of the Leverage Ratio, the Credit Facility provides for the calculation of EBITDA giving pro forma effect to certain acquisitions, divestitures and liquidations during the period to which such calculation relates. As of June 30, 2017, we were in compliance with all financial covenants in our debt agreements.

Total availability under the Credit Facility was \$2,500.0 million as of June 30, 2017, which was limited to \$2,070.4 million by the maximum Leverage Ratio in the Credit Facility's credit agreement.

In addition to the Credit Facility, we have various other credit facilities with an aggregate availability of \$35.1 million, of which there were no outstanding borrowings at June 30, 2017. Borrowings under these credit facilities bear interest at variable rates.

As of June 30, 2017, we have \$63.2 million of cash held in certain countries in which the ability to repatriate is limited due to local regulations or significant potential tax consequences.

We expect to continue to have cash requirements to support working capital needs and capital expenditures, to pay interest and service debt and to pay dividends to shareholders quarterly. We believe we have the ability and sufficient capacity to meet these cash requirements by using available cash and internally generated funds and to borrow under our committed and uncommitted credit facilities.

Share repurchases

In December 2014, the Board of Directors authorized the repurchase of our ordinary shares up to a maximum dollar limit of \$1.0 billion. The authorization expires on December 31, 2019. During the six months ended June 30, 2017, we repurchased 1.5 million of our shares for \$100.0 million pursuant to this authorization. As of June 30, 2017, we had \$700.0 million remaining available for share repurchases under this authorization.

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Dividends

On December 6, 2016, the Board of Directors approved a plan to increase the 2017 annual cash dividend to \$1.38, which is intended to be paid in four quarterly installments. Additionally, on May 9, 2017 the Board of Directors declared a quarterly cash dividend of \$0.345 payable on August 4, 2017 to shareholders of record at the close of business on July 21, 2017. As a result, the balance of dividends payable included in Other current liabilities on our Consolidated Balance Sheets was \$62.6 million and \$61.8 million at June 30, 2017 and December 31, 2016, respectively.

We paid dividends in the first six months of 2017 of \$126.1 million, or \$0.69 per ordinary share, compared with \$119.7 million, or \$0.66 per ordinary share, in the prior year period.

Under Irish law, the payment of future cash dividends and redemptions and repurchases of shares may be paid only out of Pentair plc's "distributable reserves" on its statutory balance sheet. Pentair plc is not permitted to pay dividends out of share capital, which includes share premiums. Distributable reserves may be created through the earnings of the Irish parent company and through a reduction in share capital approved by the Irish High Court. Distributable reserves are not linked to a U.S. Generally Accepted Accounting Principles ("GAAP") reported amount (e.g., retained earnings). As of December 31, 2016, our distributable reserve balance was \$9.4 billion.

Contractual obligations

The following summarizes our significant contractual debt and fixed-rate interest obligations that impact our liquidity. There have been no other material changes from the significant contractual obligations previously disclosed in Item 7 of our 2016 Annual Report on Form 10-K.

	Q3-Q4							
In millions	2017	2018	2019	2020	2021	2022	Thereafter	Total
Debt obligations	\$ 0.3	\$255.3	\$1,167.0	\$74.0	\$103.8	\$88.3	\$ 19.3	\$1,708.0
Interest obligations on fixed-rate debt	\$ 29.9	\$39.3	\$31.9	\$11.4	\$6.2	\$3.6	\$ 2.4	\$124.7
Other financial measures								

In addition to measuring our cash flow generation or usage based upon operating, investing and financing classifications included in the Condensed Consolidated Statements of Cash Flows, we also measure our free cash flow. We have a long-term goal to consistently generate free cash flow that equals or exceeds 100 percent conversion of adjusted net income. Free cash flow is a non-GAAP financial measure that we use to assess our cash flow performance. We believe free cash flow is an important measure of operating performance because it provides us and our investors a measurement of cash generated from operations that is available to pay dividends, make acquisitions, repay debt and repurchase shares. In addition, free cash flow is used as a criterion to measure and pay compensation-based incentives. Our measure of free cash flow may not be comparable to similarly titled measures reported by other companies.

The following table is a reconciliation of free cash flow:

In millions	Six months ended	
	June 30, 2017	June 30, 2016
Net cash provided by (used for) operating activities of continuing operations	\$210.9	\$320.9
Capital expenditures of continuing operations	(37.6)	(64.0)
Proceeds from sale of property and equipment of continuing operations	3.8	7.6
Free cash flow from continuing operations	\$177.1	\$264.5
Net cash provided by (used for) operating activities of discontinued operations	(55.6)	48.6
Capital expenditures of discontinued operations	(6.8)	(10.6)
Proceeds from sale of property and equipment of discontinued operations	0.3	1.9
Free cash flow	\$115.0	\$304.4

NEW ACCOUNTING STANDARDS

See Note 1 of the Notes to Condensed Consolidated Financial Statements for information pertaining to recently adopted accounting standards or accounting standards to be adopted in the future.

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CRITICAL ACCOUNTING POLICIES

In our 2016 Annual Report on Form 10-K, we identified the critical accounting policies which affect our more significant estimates and assumptions used in preparing our consolidated financial statements. We have not changed these policies from those previously disclosed in our Annual Report.

ITEM 3. QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

There have been no material changes in our market risk during the quarter ended June 30, 2017. For additional information, refer to Item 7A of our 2016 Annual Report on Form 10-K.

ITEM 4. CONTROLS AND PROCEDURES

(a) Evaluation of Disclosure Controls and Procedures

We maintain a system of disclosure controls and procedures designed to provide reasonable assurance as to the reliability of our published financial statements and other disclosures included in this report. Our management evaluated, with the participation of our Chief Executive Officer and our Chief Financial Officer, the effectiveness of the design and operation of our disclosure controls and procedures as of the end of the quarter ended June 30, 2017 pursuant to Rule 13a-15(b) of the Securities Exchange Act of 1934 (the "Exchange Act"). Based upon their evaluation, our Chief Executive Officer and our Chief Financial Officer concluded that our disclosure controls and procedures were effective, at the reasonable assurance level, as of the end of the quarter ended June 30, 2017 to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is recorded, processed, summarized and reported, within the time periods specified in the Securities and Exchange Commission's rules and forms, and to ensure that information required to be disclosed by us in the reports we file or submit under the Exchange Act is accumulated and communicated to our management, including our principal executive and principal financial officers, as appropriate to allow timely decisions regarding required disclosures.

(b) Changes in Internal Control over Financial Reporting

There was no change in our internal control over financial reporting that occurred during the quarter ended June 30, 2017 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

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PART II OTHER INFORMATION

ITEM 1. LEGAL PROCEEDINGS

We have been made parties to a number of actions filed or have been given notice of potential claims relating to the conduct of our business, including those pertaining to commercial disputes, product liability, asbestos, environmental, safety and health, patent infringement and employment matters.

While we believe that a material impact on our consolidated financial position, results of operations or cash flows from any such future claims or potential claims is unlikely, given the inherent uncertainty of litigation, a remote possibility exists that a future adverse ruling or unfavorable development could result in future charges that could have a material adverse impact. We do and will continue to periodically reexamine our estimates of probable liabilities and any associated expenses and receivables and make appropriate adjustments to such estimates based on experience and developments in litigation. As a result, the current estimates of the potential impact on our consolidated financial position, results of operations and cash flows for the proceedings and claims described in the notes to our consolidated financial statements could change in the future.

Asbestos matters

Our subsidiaries and numerous other companies are named as defendants in personal injury lawsuits based on alleged exposure to asbestos-containing materials. These cases typically involve product liability claims based primarily on allegations of manufacture, sale or distribution of industrial products that either contained asbestos or were attached to or used with asbestos-containing components manufactured by third-parties. Each case typically names between dozens to hundreds of corporate defendants. While we have observed an increase in the number of these lawsuits over the past several years, including lawsuits by plaintiffs with mesothelioma-related claims, a large percentage of these suits have not presented viable legal claims and, as a result, have been dismissed by the courts. Our historical strategy has been to mount a vigorous defense aimed at having unsubstantiated suits dismissed, and, where appropriate, settling suits before trial. Although a large percentage of litigated suits have been dismissed, we cannot predict the extent to which we will be successful in resolving lawsuits in the future.

As of June 30, 2017, there were approximately 600 claims outstanding against our subsidiaries. This amount is not adjusted for claims that are not actively being prosecuted, identified incorrect defendants, or duplicated other actions, which would ultimately reflect our current estimate of the number of viable claims made against us, our affiliates, or entities for which we assumed responsibility in connection with acquisitions or divestitures. In addition, the amount does not include certain claims pending against third parties for which we have been provided an indemnification.

Environmental matters

We have been named as defendant, target or a potentially responsible party ("PRP") in a number of environmental clean-ups relating to our current or former business units. We have disposed of a number of businesses in recent years and in certain cases, we have retained responsibility and potential liability for certain environmental obligations. We have received claims for indemnification from certain purchasers. We may be named as a PRP at other sites in the future for existing business units, as well as both divested and acquired businesses. In addition to cleanup actions brought by governmental authorities, private parties could bring personal injury or other claims due to the presence of, or exposure to, hazardous substances.

Certain environmental laws impose liability on current or previous owners or operators of real property for the cost of removal or remediation of hazardous substances at their properties or at properties at which they have disposed of hazardous substances. We have projects underway at several current and former manufacturing facilities to investigate and remediate environmental contamination resulting from our past operations or by other businesses that previously owned or used the properties.

Our accruals for environmental matters are recorded on a site-by-site basis when it is probable that a liability has been incurred and the amount of the liability can be reasonably estimated, based on current law and existing technologies. It can be difficult to estimate reliably the final costs of investigation and remediation due to various factors. In our opinion, the amounts accrued are appropriate based on facts and circumstances as currently known. As of June 30, 2017, our recorded reserves for environmental matters were not material. We do not anticipate our remaining environmental conditions will have a material adverse effect on our financial position, results of operations or cash flows. However, unknown conditions, new details about existing conditions or changes in environmental requirements

may give rise to environmental liabilities that will exceed the amount of our current reserves and could have a material adverse effect in the future.

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Product liability claims

We are subject to various product liability lawsuits and personal injury claims. A substantial number of these lawsuits and claims are insured and accrued for by Penwald, our captive insurance subsidiary. Penwald records a liability for these claims based on actuarial projections of ultimate losses. For all other claims, accruals covering the claims are recorded, on an undiscounted basis, when it is probable that a liability has been incurred and the amount of the liability can be reasonably estimated based on existing information. The accruals are adjusted periodically as additional information becomes available. We have not experienced significant unfavorable trends in either the severity or frequency of product liability lawsuits or personal injury claims.

ITEM 1A. RISK FACTORS

The following risk factors amend and supersede the risk factors previously disclosed in Item 1A to our Annual Report on Form 10-K for the year ended December 31, 2016.

You should carefully consider all of the information in this document and the following risk factors before making an investment decision regarding our securities. Any of the following risks could materially and adversely affect our business, financial condition, results of operations, cash flows and the actual outcome of matters as to which forward-looking statements are made in this document.

Risks Relating to Our Proposed Separation of Our Water Business and Electrical Business by Spin-off

The proposed separation of our Water business and Electrical business is contingent upon the satisfaction of a number of conditions, may require significant time and attention of our management and may have an adverse effect on us whether or not it is completed.

On May 9, 2017, we announced that our Board of Directors approved a plan to separate our Water business and Electrical business into two independent, publicly-traded companies through a spin-off. Completion of the spin-off will be contingent upon customary conditions, including obtaining final approval from our Board of Directors, receipt of tax opinions and rulings and effectiveness of appropriate filings with the SEC. In addition, the proposed spin-off is complex in nature and may be affected by unanticipated developments or changes in market conditions. For these and other reasons, the spin-off may not be completed as expected during the second quarter of 2018, if at all.

Whether or not we complete the spin-off, our ongoing businesses may be adversely affected and we may be subject to certain risks and consequences as a result of pursuing the spin-off, including the following:

- execution of the proposed spin-off will require significant time and attention from management, which may distract management from the operation of our businesses and the execution of other initiatives that may have been beneficial to us;

- our employees may also be distracted due to uncertainty about their future roles with each of the separate companies pending the completion of the spin-off;

- some of our suppliers or customers may delay or defer decisions or may end their relationships with us or our Electrical business;

- we will be required to pay certain costs and expenses relating to the spin-off, such as legal, accounting and other professional fees, whether or not it is completed;

- we may experience negative reactions from the financial markets if we fail to complete the spin-off or fail to complete it on a timely basis.

Any of these factors could have a material adverse effect on the business, financial condition, results of operations, cash flows and trading price of us or the Electrical business.

We may be unable to achieve some or all of the benefits that we expect to achieve from the spin-off.

Although we believe that separating our Electrical business from our Water business by means of the spin-off will provide financial, operational, managerial and other benefits to us and our shareholders, the spin-off may not provide the results on the scope or on the scale we anticipate, and we may not realize any or all of the intended benefits. In addition, we will incur one-time costs and ongoing costs in connection with, or as a result of, the spin-off, including costs of operating as independent, publicly-traded companies that the two businesses will no longer be able to share. Those costs may exceed our estimates or could negate some of the benefits we expect to realize. If we do not realize the intended benefits or if our costs exceed our estimates, we or the Electrical business that is spun off could suffer a material adverse effect on the business, financial condition, results of operations, cash flows and trading price of us or

the Electrical business.

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If the proposed spin-off of our Electrical business is completed, the trading price of our ordinary shares will decline and may experience greater volatility.

We expect the trading price of our ordinary shares immediately following the spin-off to be significantly lower than immediately prior to the spin-off because the trading price for our shares will no longer reflect the value of our Electrical business. In addition, until the market has fully analyzed our value without our Electrical business, the price of our shares may experience greater volatility.

If the proposed spin-off is completed, our shares may not match some holders' investment strategies or meet minimum criteria for inclusion in stock market indices or portfolios, which could cause investors to sell their shares. Excessive selling pressure could cause the market price of our shares to decrease further following the completion of the proposed spin-off.

Following the spin-off, the value of our ordinary shares and the ordinary shares of the Electrical business that is spun off may collectively trade at an aggregate price less than that at which the Company's ordinary shares might trade had the spin-off not occurred.

For a number of reasons, our ordinary shares and the ordinary shares of the Electrical business that is spun off that you may hold following the spin-off may collectively trade at a value less than the price at which our ordinary shares might have traded had the spin-off not occurred and we continued to own the Electrical business. These reasons include the future performance of either us or the Electrical business as separate, independent companies and the future shareholder base and market for our ordinary shares and the ordinary shares of the Electrical business and the prices at which these shares individually trade.

The proposed spin-off transaction could result in substantial tax liability to us and our shareholders.

The spin-off is conditioned on our receipt of opinions of tax counsel and tax rulings from taxing authorities. However, these opinions will not be binding on taxing authorities. Accordingly, taxing authorities or the courts may reach conclusions with respect to the spin-off that are different from the conclusions reached in the opinions of counsel. Moreover, the opinions of counsel will be based on certain statements and representations made by us, which, if incomplete or inaccurate in any material respect, could invalidate the opinion of counsel. Additionally, certain internal restructuring transactions necessary to accomplish the spin-off may result in adverse tax consequences to us.

If the spin-off and certain related transactions were determined to be taxable, we could be subject to a substantial tax liability that could have a material adverse effect on our financial condition, results of operations and cash flows. In addition, if the spin-off were taxable, each holder of our ordinary shares who receives shares of the Electrical business in the spin-off would generally be treated as receiving a taxable distribution of property in an amount equal to the fair market value of the shares received.

Risks Relating to Our Business

General global economic and business conditions affect demand for our products.

We compete in various geographic regions and product markets around the world. Among these, the most significant are global industrial markets and residential markets. We have experienced, and expect to continue to experience, fluctuations in revenues and operating results due to economic and business cycles. Important factors for our businesses and the businesses of our customers include the overall strength of the economy and our customers' confidence in the economy, industrial and governmental capital spending, the strength of the residential and commercial real estate markets, unemployment rates, availability of consumer and commercial financing, interest rates, and energy and commodity prices. The businesses of many of our industrial customers are to varying degrees cyclical and have experienced periodic downturns. While we attempt to minimize our exposure to economic or market fluctuations by serving a balanced mix of end markets and geographic regions, any of the above factors, individually or in the aggregate, or a significant or sustained downturn in a specific end market or geographic region could reduce demand for our products and services.

We compete in attractive markets with a high level of competition, which may result in pressure on our profit margins and limit our ability to maintain or increase the market share of our products.

The markets for our products and services are geographically diverse and highly competitive. We compete against large and well-established national and global companies, as well as regional and local companies and lower cost manufacturers. We compete based on technical expertise, reputation for quality and reliability, timeliness of delivery,

previous installation history, contractual terms and price. Some of our competitors, in particular smaller companies, attempt to compete based primarily on price, localized expertise and local relationships, especially with respect to products and applications that do not require a great deal of engineering or technical expertise. In addition, during economic downturns average selling prices tend to decrease as market participants compete more aggressively on price. If we are unable to continue to differentiate our products, services and solutions, or if we are forced to cut prices or to incur additional costs to remain competitive, our business, financial condition, results of operations and cash flows could be materially and adversely affected.

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Volatility in currency exchange rates may adversely affect our financial condition, results of operations and cash flows.

Sales outside of the U.S. for the year ended December 31, 2016 accounted for 41 percent of our net sales. Our financial statements reflect translation of items denominated in non-U.S. currencies to U.S. dollars. Therefore, if the U.S. dollar strengthens in relation to the principle non-U.S. currencies from which we derive revenue as compared to a prior period, our U.S. dollar reported revenue and income will effectively be decreased to the extent of the change in currency valuations, and vice-versa. During 2016, foreign currency translations had a 0.8 percent negative impact on our net sales. Fluctuations in foreign currency exchange rates, most notably the strengthening of the U.S. dollar against the Euro, could continue to adversely affect our reported revenue in future periods. In addition, currency variations can adversely affect margins on sales of our products in countries outside of the U.S. and margins on sales of products that include components obtained from suppliers located outside of the U.S.

Our future growth is dependent upon our ability to continue to adapt our products, services and organization to meet the demands of local markets in both developed and emerging economies and by developing or acquiring new technologies that achieve market acceptance with acceptable margins.

We operate in global markets that are characterized by customer demand that is often global in scope but localized in delivery. We compete with thousands of smaller regional and local companies that may be positioned to offer products produced at lower cost than ours, or to capitalize on highly localized relationships and knowledge that are difficult for us to replicate. Also, in several emerging markets potential customers prefer local suppliers, in some cases because of existing relationships and in other cases because of local legal restrictions or incentives that favor local businesses. Accordingly, our future success depends upon a number of factors, including our ability to adapt our products, services, organization, workforce and sales strategies to fit localities throughout the world, particularly in high growth emerging markets; identify emerging technological and other trends in our target end-markets; and develop or acquire competitive products and services and bring them to market quickly and cost-effectively. We have chosen to focus our growth initiatives in specific end markets and geographies, but we cannot provide assurance that these growth initiatives will be sufficient to offset revenue declines in other markets. The failure to effectively adapt our products or services could materially and adversely affect our business, financial condition, results of operations and cash flows.

Our business strategy includes acquiring businesses and making investments that complement our existing businesses. We may not be able to identify, finance and complete suitable acquisitions and investments, and any completed acquisitions and investments could be unsuccessful or consume significant resources, which could adversely affect our operating results.

We continue to analyze and evaluate the acquisition of strategic businesses or product lines with the potential to strengthen our industry position or enhance our existing set of product and service offerings. We cannot provide any assurance that we will be able to identify suitable acquisition candidates, obtain financing or have sufficient cash necessary for acquisitions or successfully complete acquisitions in the future or that completed acquisitions will be successful. Acquisitions and investments may involve significant cash expenditures, debt incurrences, equity issuances, operating losses and expenses that could have a material adverse effect on our business, financial condition, results of operations and cash flows. Acquisitions involve numerous other risks, including:

- diversion of management time and attention from daily operations;
- difficulties integrating acquired businesses, technologies and personnel into our business;
- difficulties in obtaining and verifying the financial statements and other business information of acquired businesses;
- inability to obtain required regulatory approvals;
- potential loss of key employees, key contractual relationships or key customers of acquired companies or of ours;
- assumption of the liabilities and exposure to unforeseen liabilities of acquired companies, including risks related to the U.S. Foreign Corrupt Practices Act (the "FCPA"); and
- dilution of interests of holders of our shares through the issuance of equity securities or equity-linked securities.

It may be difficult for us to complete transactions quickly and to integrate acquired operations efficiently into our business operations. Any acquisitions or investments may ultimately harm our business, financial condition, results of

operations and cash flows, as such acquisitions may not be successful and may ultimately result in impairment charges.

We may not achieve some or all of the expected benefits of our business initiatives.

During 2016, 2015 and 2014, we initiated and continued execution of certain business initiatives aimed at reducing our fixed cost structure and realigning our business. As a result, we have incurred substantial expense, including restructuring charges. We may not be able to achieve the operating efficiencies to reduce costs or realize benefits that were initially anticipated in connection with these initiatives. If we are unable to execute these initiatives as planned, we may not realize all or any of the anticipated benefits, which could adversely affect our business and results of operations.

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We are exposed to political, regulatory, economic and other risks that arise from operating a multinational business. Sales outside of the U.S. for the year ended December 31, 2016 accounted for 41 percent of our net sales. Further, most of our businesses obtain some products, components and raw materials from non-U.S. suppliers. Accordingly, our business is subject to the political, regulatory, economic and other risks that are inherent in operating in numerous countries. These risks include:

- changes in general economic and political conditions in countries where we operate, particularly in emerging markets;
- relatively more severe economic conditions in some international markets than in the United States;
- the difficulty of enforcing agreements and collecting receivables through foreign legal systems;
- the difficulty of communicating and monitoring standards and directives across our global network of after-market service centers and manufacturing facilities;
- trade protection measures and import or export licensing requirements and restrictions;
- the possibility of terrorist action affecting us or our operations;
- the threat of nationalization and expropriation;
- the imposition of tariffs, exchange controls or other trade restrictions;
- difficulty in staffing and managing widespread operations in non-U.S. labor markets;
- changes in tax treaties, laws or rulings that could have an adverse impact on our effective tax rate;
- limitations on repatriation of earnings;
- the difficulty of protecting intellectual property in non-U.S. countries; and
- changes in and required compliance with a variety of non-U.S. laws and regulations.

Our success depends in part on our ability to anticipate and effectively manage these and other risks. We cannot assure you that these and other factors will not have a material adverse effect on our international operations or on our business as a whole.

Material cost and other inflation have adversely affected and could continue to affect our results of operations. In the past, we have experienced material cost and other inflation in a number of our businesses. We strive for productivity improvements and implement increases in selling prices to help mitigate cost increases in raw materials (especially metals and resins), energy and other costs such as pension, health care and insurance. We continue to implement operational initiatives in order to mitigate the impacts of this inflation and continuously reduce our costs. We cannot provide assurance, however, that these actions will be successful in managing our costs or increasing our productivity. Continued cost inflation or failure of our initiatives to generate cost savings or improve productivity would likely negatively impact our results of operations.

Intellectual property challenges may hinder our ability to develop, engineer and market our products.

Patents, non-compete agreements, proprietary technologies, customer relationships, trademarks, trade names and brand names are important to our business. Intellectual property protection, however, may not preclude competitors from developing products similar to ours or from challenging our names or products. Our pending patent applications, and our pending copyright and trademark registration applications, may not be allowed or competitors may challenge the validity or scope of our patents, copyrights or trademarks. In addition, our patents, copyrights, trademarks and other intellectual property rights may not provide us a significant competitive advantage. Over the past few years, we have noticed an increasing tendency for participants in our markets to use conflicts over and challenges to intellectual property as a means to compete. Patent and trademark challenges increase our costs to develop, engineer and market our products. We may need to spend significant resources monitoring our intellectual property rights and we may or may not be able to detect infringement by third parties. If we fail to successfully enforce our intellectual property rights or register new patents, our competitive position could suffer, which could harm our business, financial condition, results of operations and cash flows.

We have significant goodwill and intangible assets and future impairment of our goodwill and intangible assets could have a material negative impact on our financial results.

We test goodwill and indefinite-lived intangible assets for impairment on at least an annual basis, and more frequently if circumstances warrant, by comparing the estimated fair value of each of our reporting units to their respective carrying values on their balance sheets. As of December 31, 2016 our goodwill and intangible assets were \$5,849.2 million and represented 51% of our total assets. Long-term declines in projected future cash flows could result in

future goodwill and intangible asset impairments.

We may be adversely affected by work stoppages, union negotiations, labor disputes and other matters associated with our labor force.

As of December 31, 2016, approximately 9,000 of our employees were covered by collective bargaining agreements or works councils. Although we believe that our relations with the labor unions and work councils that represent our employees are generally good and we have experienced no material strikes and only minor work stoppages recently, no assurances can be made that we will not experience in the future these and other types of conflicts with labor unions, works councils, other groups representing employees or our employees generally, or that any future negotiations with our labor unions will not result in significant increases in our cost of labor.

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Seasonality of sales and weather conditions may adversely affect our financial results.

We experience seasonal demand in a number of markets within both of our business segments. In our Water segment, both demand for residential water supply products, infrastructure and agricultural products and end-user demand for pool equipment in our primary markets follow warm weather trends and are at seasonal highs from April to August. The magnitude of the sales increase in our Water segment is partially mitigated by employing some advance sale or "early buy" programs (generally including extended payment terms and/or additional discounts). Seasonal effects may vary from year to year and are impacted by weather patterns, particularly by temperatures, heavy flooding and droughts. Our Electrical segment generally experiences increased demand for thermal protection products and services during the fall and winter months in the Northern Hemisphere and increased demand for electrical fastening products during the spring and summer months in the Northern Hemisphere. We cannot provide assurance that seasonality and weather conditions will not have a material adverse effect on our results of operations.

Our share price may fluctuate significantly.

We cannot predict the prices at which our shares may trade. The market price of our shares may fluctuate widely, depending on many factors, some of which may be beyond our control, including:

- actual or anticipated fluctuations in our operating results due to factors related to our business;
- success or failure of our business strategy;
- our quarterly or annual earnings, or those of other companies in our industry;
- our ability to obtain third-party financing as needed;
- announcements by us or our competitors of significant acquisitions or dispositions;
- changes in accounting standards, policies, guidance, interpretations or principles;
- changes in earnings estimates by us or securities analysts or our ability to meet those estimates;
- the operating and share price performance of other comparable companies;
- investor perception of us;
- natural or other environmental disasters that investors believe may affect us;
- overall market fluctuations;
- results from any material litigation, including asbestos claims, government investigations or environmental liabilities;
- changes in laws and regulations affecting our business; and
- general economic conditions and other external factors.

Stock markets in general have experienced volatility that has often been unrelated to the operating performance of a particular company. These broad market fluctuations could adversely affect the trading price of our shares.

Risks Relating to Legal, Regulatory and Compliance Matters

We could be adversely affected by violations of the U.S. Foreign Corrupt Practices Act and similar anti-corruption laws outside the United States.

The FCPA and similar anti-corruption laws in other jurisdictions generally prohibit companies and their intermediaries from making improper payments to government officials or other persons for the purpose of obtaining or retaining business. Recent years have seen a substantial increase in anti-bribery law enforcement activity, with more frequent and aggressive investigations and enforcement proceedings by both the U.S. Department of Justice ("DOJ") and the SEC, increased enforcement activity by non-U.S. regulators and increases in criminal and civil proceedings brought against companies and individuals. Our policies mandate compliance with these anti-bribery laws. We operate in many parts of the world that are recognized as having governmental and commercial corruption and in certain circumstances, strict compliance with anti-bribery laws may conflict with local customs and practices. Because many of our customers and end users are involved in infrastructure construction and energy production, they are often subject to increased scrutiny by regulators. We cannot assure you that our internal control policies and procedures will always protect us from reckless or criminal acts committed by our employees or third-party intermediaries. In the event that we believe or have reason to believe that our employees or agents have or may have violated applicable anti-corruption laws, including the FCPA we may be required to investigate or have outside counsel investigate the relevant facts and circumstances, which can be expensive and require significant time and attention from senior management. Violations of these laws may result in criminal or civil sanctions, which could

disrupt our business and result in a material adverse effect on our reputation, business, financial condition, results of operations and cash flows.

Our failure to satisfy international trade compliance regulations may adversely affect us.

Our global operations require importing and exporting goods and technology across international borders on a regular basis. Certain of the products we manufacture are "dual use" products, which are products that may have both civil and military applications, or may otherwise be involved in weapons proliferation, and are often subject to more stringent export controls. From time to time, we obtain or receive information alleging improper activity in connection with imports or exports. Our policy mandates strict compliance with U.S. and non-U.S. trade laws applicable to our products. However, even when we are in

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strict compliance with law and our policies, we may suffer reputational damage if certain of our products are sold through various intermediaries to entities operating in sanctioned countries. When we receive information alleging improper activity, our policy is to investigate that information and respond appropriately, including, if warranted, reporting our findings to relevant governmental authorities. Nonetheless, we cannot provide assurance that our policies and procedures will always protect us from actions that would violate U.S. and/or non-U.S. laws. Any improper actions could subject us to civil or criminal penalties, including material monetary fines, or other adverse actions including denial of import or export privileges, and could damage our reputation and business prospects. We are exposed to potential environmental and other laws, liabilities and litigation.

We are subject to U.S. federal, state, local and non-U.S. laws and regulations governing our environmental practices, public and worker health and safety, and the indoor and outdoor environment. Compliance with these environmental, health and safety regulations could require us to satisfy environmental liabilities, increase the cost of manufacturing our products or otherwise adversely affect our business, financial condition and results of operations. Any violations of these laws by us could cause us to incur unanticipated liabilities that could harm our operating results and cause our business to suffer. We are also required to comply with various environmental laws and maintain permits, some of which are subject to discretionary renewal from time to time, for many of our businesses and we could suffer if we are unable to renew existing permits or to obtain any additional permits that we may require. Compliance with environmental requirements also could require significant operating or capital expenditures or result in significant operational restrictions. We cannot assure you that we have been or will be at all times in compliance with environmental and health and safety laws. If we violate these laws, we could be fined, criminally charged or otherwise sanctioned by regulators.

We have been named as defendant, target or a PRP in a number of environmental clean-ups relating to our current or former business units. We have disposed of a number of businesses in recent years and in certain cases, we have retained responsibility and potential liability for certain environmental obligations. We have received claims for indemnification from certain purchasers. We may be named as a PRP at other sites in the future for existing business units, as well as both divested and acquired businesses. In addition to cleanup actions brought by governmental authorities, private parties could bring personal injury or other claims due to the presence of, or exposure to, hazardous substances.

Certain environmental laws impose liability on current or previous owners or operators of real property for the cost of removal or remediation of hazardous substances at their properties or at properties at which they have disposed of hazardous substances. We have projects underway at several current and former manufacturing facilities to investigate and remediate environmental contamination resulting from our past operations or by other businesses that previously owned or used the properties. The cost of cleanup and other environmental liabilities can be difficult to accurately predict. In addition, environmental requirements change and tend to become more stringent over time. Thus, we cannot provide assurance that our eventual environmental clean-up costs and liabilities will not exceed the amount of our current reserves.

Our subsidiaries are party to asbestos-related product litigation that could adversely affect our financial condition, results of operations and cash flows.

Our subsidiaries, along with numerous other companies, are named as defendants in a substantial number of lawsuits based on alleged exposure to asbestos-containing materials. These cases typically involve product liability claims based primarily on allegations of manufacture, sale or distribution of industrial products that either contained asbestos or were attached to or used with asbestos-containing components manufactured by third parties. Each case typically names between dozens to hundreds of corporate defendants. Historically, our subsidiaries have been identified as defendants in asbestos-related claims. We have experienced an increase in the number of asbestos-related lawsuits over the past several years, including lawsuits by plaintiffs with mesothelioma-related claims. A large percentage of these suits have not presented viable legal claims and, as a result, have been dismissed or withdrawn. Our strategy has been, and continues to be, to mount a vigorous defense aimed at having unsubstantiated suits dismissed, and, only where appropriate, settling claims before trial. As of June 30, 2017, there were approximately 600 claims pending against our subsidiaries. We cannot predict with certainty the extent to which we will be successful in litigating or

otherwise resolving lawsuits in the future and we continue to evaluate different strategies related to asbestos claims filed against us including entity restructuring and judicial relief. Unfavorable rulings, judgments or settlement terms could have a material adverse impact on our business and financial condition, results of operations and cash flows. We are exposed to potential regulatory, financial and reputational risks related to certain "conflict minerals." In 2012, the SEC adopted disclosure requirements related to certain minerals sourced from the Democratic Republic of Congo or adjoining countries, as required by Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act. The final rules impose inquiry, diligence and disclosure obligations with respect to "conflict minerals," defined as tin, tantalum, tungsten and gold, that are necessary to the functionality of a product manufactured, or contracted to be manufactured, by an SEC reporting company. Certain of these minerals are used extensively in components manufactured by our suppliers (or in components incorporated by our suppliers into components supplied to us) for use in our products. Under the final rules, an

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SEC reporting company must conduct a country of origin inquiry that is reasonably designed to determine whether any of the "conflict minerals" that are necessary to the functionality of a product manufactured, or contracted to be manufactured, by the company originated in the Democratic Republic of the Congo or an adjoining country. If any such "conflict minerals" originated in the Democratic Republic of Congo or an adjoining country, the final rules require the issuer to exercise due diligence on the source of such "conflict minerals" and their chain of custody with the ultimate objective of determining whether the "conflict minerals" directly or indirectly financed or benefited armed groups in the Democratic Republic of the Congo or an adjoining country. The issuer must then prepare and file with the SEC annually a report regarding its diligence efforts, which we have done since the SEC's reporting requirements became effective. We have incurred, and expect to continue to incur, significant costs to conduct country of origin inquiries and to exercise such due diligence.

We have a very large number of suppliers and our supply chain is very complex and multifaceted. While we have no intention to use minerals sourced from the Democratic Republic of Congo or adjoining countries that are not "conflict free" (meaning that they do not contain "conflict minerals" that directly or indirectly finance or benefit armed groups in the Democratic Republic of the Congo or an adjoining country), a significant number of our suppliers are small businesses, and those small businesses have limited or no resources to track their sources of minerals. As a result, we have experienced, and expect to continue to experience, ongoing significant difficulty in determining the country of origin or the source and chain of custody for all "conflict minerals" used in our products and disclosing that our products are "conflict free." We may face reputational challenges if we are unable to verify the country of origin or the source and chain of custody for all "conflict minerals" used in our products or if we continue to be unable to disclose that our products are "conflict free." The ongoing implementation of these rules may also affect the sourcing and availability of some minerals necessary to the manufacture of our products and may affect the availability and price of "conflict minerals" capable of certification as "conflict free." Accordingly, we have incurred, and expect to continue to incur, significant costs as a consequence of these rules, which may adversely affect our business, financial condition or results of operations.

We are exposed to certain regulatory and financial risks related to climate change.

Climate change is receiving ever increasing attention worldwide. Many scientists, legislators and others attribute global warming to increased levels of greenhouse gases, including carbon dioxide, which has led to significant legislative and regulatory efforts to limit greenhouse gas emissions. The U.S. Congress and federal and state regulatory agencies have been considering legislation and regulatory proposals that would regulate and limit greenhouse gas emissions. It is uncertain whether, when and in what form a federal mandatory carbon dioxide emissions reduction program may be adopted. Similarly, certain countries have adopted the Kyoto Protocol and this and other existing international initiatives or those under consideration could affect our international operations. To the extent our customers, particularly our energy and industrial customers, are subject to any of these or other similar proposed or newly enacted laws and regulations, we are exposed to risks that the additional costs by customers to comply with such laws and regulations could impact their ability or desire to continue to operate at similar levels in certain jurisdictions as historically seen or as currently anticipated, which could negatively impact their demand for our products and services. These actions could also increase costs associated with our operations, including costs for raw materials and transportation. Because it is uncertain what laws will be enacted, we cannot predict the potential impact of such laws on our future financial condition, results of operations and cash flows.

Increased information technology security threats and more sophisticated computer crime pose a risk to our systems, networks, products and services. We are exposed to potential regulatory, financial and reputational risks relating to the protection of our data.

We rely upon information technology systems and networks in connection with a variety of business activities, some of which are managed by third parties. Additionally, we collect and store data that is sensitive to Pentair and its employees, customers, dealers and suppliers. The secure operation of these information technology systems and networks, and the processing and maintenance of this data is critical to our business operations and strategy.

Information technology security threats -- from user error to attacks designed to gain unauthorized access to our systems, networks and data -- are increasing in frequency and sophistication. Attacks may range from random attempts to coordinated and targeted attacks, including sophisticated computer crime and advanced persistent threats.

These threats pose a risk to the security of our systems and networks and the confidentiality, availability and integrity of the data we process and maintain. Establishing systems and processes to address these threats and changes in legal requirements relating to data collection and storage may increase our costs. We have identified attempts to gain unauthorized access to our information technology systems and networks. To our knowledge, no such attack was ultimately successful in exporting sensitive data or controlling sensitive systems or networks. Should such an attack succeed it could expose us and our employees, customers, dealers and suppliers to misuse of information or systems, the compromising of confidential information, theft of assets, manipulation and destruction of data, defective products, production downtimes and operations disruptions, and breach of privacy, which may require notification under data privacy and other applicable laws. The occurrence of any of these events could adversely affect our reputation, competitive position, business and results of operations. In addition, such breaches in security could result in litigation, regulatory action and potential liability and the costs and operational consequences of implementing further data protection measures.

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Our results of operations may be negatively impacted by litigation.

Our businesses expose us to potential litigation, such as product liability claims relating to the design, manufacture and sale of our products. While we currently maintain what we believe to be suitable product liability insurance, we cannot provide assurance that we will be able to maintain this insurance on acceptable terms or that this insurance will provide adequate protection against potential or previously existing liabilities. In addition, we self-insure a portion of product liability claims. Successful claims against us for significant amounts could materially and adversely affect our product reputation, financial condition, results of operations and cash flows.

We share responsibility for certain income tax liabilities for tax periods prior to and including the date of the Distribution.

In connection with the Distribution, we entered into a tax sharing agreement (the "2012 Tax Sharing Agreement") with Tyco (now known as Johnson Controls International plc, "Johnson Controls") and The ADT Corporation ("ADT"), which governs the rights and obligations of ADT, Johnson Controls and us for certain pre-Distribution tax liabilities, including Johnson Controls' obligations under a separate tax sharing agreement (the "2007 Tax Sharing Agreement") entered into by Johnson Controls, Covidien Ltd. (now known as Medtronic plc, "Medtronic") and TE Connectivity Ltd. ("TE Connectivity") in connection with the 2007 distributions of Medtronic and TE Connectivity by Johnson Controls.

The 2012 Tax Sharing Agreement provides that we, Johnson Controls and ADT will share (i) certain pre-Distribution income tax liabilities that arise from adjustments made by tax authorities to our, Johnson Controls' and ADT's U.S. income tax returns, including withholding tax, income tax, or other tax liabilities that could arise if the Merger, Distribution or certain internal transactions undertaken in anticipation of the Distribution are determined to be taxable for U.S. federal or Swiss tax purposes, and (ii) payments required to be made by Johnson Controls with respect to the 2007 Tax Sharing Agreement (the liabilities in clauses (i) and (ii) collectively, "Shared Tax Liabilities"). Johnson Controls is responsible for the first \$500 million of Shared Tax Liabilities. As of June 30, 2017, Johnson Controls has paid \$210.5 million of Shared Tax Liabilities. We and ADT will share 42% and 58%, respectively, of the next \$225 million of Shared Tax Liabilities. We, ADT and Johnson Controls will share 20%, 27.5% and 52.5%, respectively, of Shared Tax Liabilities above \$725 million. Costs and expenses associated with the management of Shared Tax Liabilities will generally be shared 20% by us, 27.5% by ADT and 52.5% by Johnson Controls. The ultimate resolution of these matters, and the impact of that resolution, are uncertain. To the extent we are responsible for any liability under the 2012 Tax Sharing Agreement, and indirectly the 2007 Tax Sharing Agreement, there could be a material adverse impact on our financial condition, results of operations, cash flows or our effective tax rate in future reporting periods.

In addition, under the terms of the 2012 Tax Sharing Agreement, in the event the Distribution, the ADT distribution, the internal transactions or the Merger were determined to be taxable as a result of actions taken after the Distribution by us, ADT or Johnson Controls, the party responsible for such failure would be responsible for all taxes imposed as a result thereof. If such failure is not the result of actions taken after the Distribution by us, ADT or Johnson Controls, then we, ADT and Johnson Controls would be responsible for any taxes imposed as a result of such determination in the same manner and in the same proportions as we, ADT and Johnson Controls are responsible for Shared Tax Liabilities. Such tax amounts could be significant.

Risks Relating to Our Liquidity

Disruptions in the financial markets could adversely affect us, our customers and our suppliers by increasing funding costs or reducing availability of credit.

In the normal course of our business, we may access credit markets for general corporate purposes, which may include repayment of indebtedness, acquisitions, additions to working capital, repurchase of shares, capital expenditures and investments in our subsidiaries. Although we expect to have sufficient liquidity to meet our foreseeable needs, our access to and the cost of capital could be negatively impacted by disruptions in the credit markets, which have occurred in the past and made financing terms for borrowers unattractive or unavailable. These factors may make it more difficult or expensive for us to access credit markets if the need arises. In addition, these factors may make it more difficult for our suppliers to meet demand for their products or for prospective customers to commence new

projects, as customers and suppliers may experience increased costs of debt financing or difficulties in obtaining debt financing. Disruptions in the financial markets have had adverse effects on other areas of the economy and have led to a slowdown in general economic activity that may continue to adversely affect our businesses. These disruptions may have other unknown adverse effects. One or more of these factors could adversely affect our business, financial condition, results of operations or cash flows.

Covenants in our debt instruments may adversely affect us.

Our credit agreements and indentures contain customary financial covenants, including those that limit the amount of our debt, which may restrict the operations of our business and our ability to incur additional debt to finance acquisitions. Our ability to meet the financial covenants can be affected by events beyond our control, and we cannot provide assurance that we will meet those tests. A breach of any of these covenants could result in a default under our credit agreements or indentures. Upon the occurrence of an event of default under any of our credit facilities or indentures, the lenders or trustees could elect to declare all

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amounts outstanding thereunder to be immediately due and payable and, in the case of credit facility lenders, terminate all commitments to extend further credit. If the lenders or trustees accelerate the repayment of borrowings, we cannot provide assurance that we will have sufficient assets to repay our credit facilities and our other indebtedness. Furthermore, acceleration of any obligation under any of our material debt instruments will permit the holders of our other material debt to accelerate their obligations, which could have a material adverse effect on our financial condition.

We may increase our debt or raise additional capital in the future, which could affect our financial condition, and may decrease our profitability.

As of June 30, 2017, we had \$1,698.9 million of total debt outstanding. We may increase our debt or raise additional capital in the future, subject to restrictions in our debt agreements. If our cash flow from operations is less than we anticipate, if our cash requirements are more than we expect, or if we intend to finance acquisitions, we may require more financing. However, debt or equity financing may not be available to us on acceptable terms, if at all. If we incur additional debt or raise equity through the issuance of additional capital shares, the terms of the debt or capital shares issued may give the holders rights, preferences and privileges senior to those of holders of our ordinary shares, particularly in the event of liquidation. The terms of the debt may also impose additional and more stringent restrictions on our operations than we currently have. If we raise funds through the issuance of additional equity, the percentage ownership of existing shareholders in our company would decline. If we are unable to raise additional capital when needed, our financial condition could be adversely affected.

Our leverage could have a material adverse effect on our business, financial condition or results of operations.

Our ability to make payments on and to refinance our indebtedness, including our existing debt as well as any future debt that we may incur, will depend on our ability to generate cash in the future from operations, financings or asset sales. Our ability to generate cash is subject to general economic, financial, competitive, legislative, regulatory and other factors that are beyond our control. If we are not able to repay or refinance our debt as it becomes due, we may be forced to sell assets or take other disadvantageous actions, including (i) reducing financing in the future for working capital, capital expenditures and general corporate purposes or (ii) dedicating an unsustainable level of our cash flow from operations to the payment of principal and interest on our indebtedness. The lenders who hold such debt could also accelerate amounts due, which could potentially trigger a default or acceleration of any of our other debt.

Risks Relating to Our Jurisdiction of Incorporation in Ireland and Tax Residency in the United Kingdom

We are subject to changes in law and other factors that may not allow us to maintain a worldwide effective corporate tax rate that is competitive in our industry.

While we believe that we should be able to maintain a worldwide effective corporate tax rate that is competitive in our industry, we cannot give any assurance as to what our effective tax rate will be in the future because of, among other things, uncertainty regarding tax policies of the jurisdictions where we operate. Also, the tax laws of the U.S., the U.K., Ireland and other jurisdictions could change in the future, and such changes could cause a material change in our worldwide effective corporate tax rate. In particular, legislative action could be taken by the U.S., the U.K., Ireland or the European Union which could override tax treaties or modify tax statutes or regulations upon which we expect to rely and adversely affect our effective tax rate. We cannot predict the outcome of any specific legislative proposals. If proposals were enacted that had the effect of disregarding our incorporation in Ireland or limiting our ability as an Irish company to maintain tax residency in the U.K. and take advantage of the tax treaties among the U.S., the U.K. and Ireland, we could be subject to increased taxation, which could materially adversely affect our financial condition, results of operations, cash flows or our effective tax rate in future reporting periods.

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A change in our tax residency could have a negative effect on our future profitability and taxes on dividends. Under current Irish legislation, a company is regarded as resident for tax purposes in Ireland if it is centrally managed and controlled in Ireland, or, in certain circumstances, if it is incorporated in Ireland. Under current U.K. legislation, a company that is centrally managed and controlled in the U.K. is regarded as resident in the U.K. for taxation purposes. Where a company is treated as tax resident under the domestic laws of both the U.K. and Ireland then the provisions of article 4(3) of the Double Tax Convention between Ireland and the U.K. provide that such enterprise shall be treated as resident only in the jurisdiction in which its place of effective management is situated. We have managed, and we intend to continue to manage, our affairs so that we are centrally managed and controlled in the U.K. and therefore have our tax residency only in the U.K. However, we cannot provide assurance that we will continue to be resident only in the U.K. for tax purposes. It is possible that in the future, whether as a result of a change in law or the practice of any relevant tax authority or as a result of any change in the conduct of its affairs, we could become, or be regarded as having become resident in a jurisdiction other than the U.K. If we were considered to be a tax resident of Ireland, we could become liable for Irish corporation tax and any dividends paid by us could be subject to Irish dividend withholding tax.

Irish law differs from the laws in effect in the United States and may afford less protection to holders of our securities. It may not be possible to enforce court judgments obtained in the U.S. against us in Ireland based on the civil liability provisions of the U.S. federal or state securities laws. In addition, there is some uncertainty as to whether the courts of Ireland would recognize or enforce judgments of U.S. courts obtained against us or our directors or officers based on the civil liabilities provisions of the U.S. federal or state securities laws or hear actions against us or those persons based on those laws. We have been advised that the United States currently does not have a treaty with Ireland providing for the reciprocal recognition and enforcement of judgments in civil and commercial matters. Therefore, a final judgment for the payment of money rendered by any U.S. federal or state court based on civil liability, whether or not based solely on U.S. federal or state securities laws, would not automatically be enforceable in Ireland.

As an Irish company, we are governed by the Irish Companies Act, which differs in some material respects from laws generally applicable to U.S. corporations and shareholders, including, among others, differences relating to interested director and officer transactions and shareholder lawsuits. Likewise, the duties of directors and officers of an Irish company generally are owed to the company only. Shareholders of Irish companies generally do not have a personal right of action against directors or officers of the company and may exercise such rights of action on behalf of the company only in limited circumstances. Accordingly, holders of our securities may have more difficulty protecting their interests than would holders of securities of a corporation incorporated in a jurisdiction of the U.S.

Transfers of our ordinary shares may be subject to Irish stamp duty.

Transfers of our ordinary shares effected by means of the transfer of book entry interests in the Depository Trust Company ("DTC") will not be subject to Irish stamp duty. However, if you hold your ordinary shares directly rather than beneficially through DTC, any transfer of your ordinary shares could be subject to Irish stamp duty (currently at the rate of 1% of the higher of the price paid or the market value of the shares acquired). Payment of Irish stamp duty is generally a legal obligation of the transferee.

We currently intend to pay, or cause one of our affiliates to pay, stamp duty in connection with share transfers made in the ordinary course of trading by a seller who holds shares directly to a buyer who holds the acquired shares beneficially. In other cases we may, in our absolute discretion, pay or cause one of our affiliates to pay any stamp duty. Our articles of association provide that, in the event of any such payment, we (i) may seek reimbursement from the buyer, (ii) will have a lien against the shares acquired by such buyer and any dividends paid on such shares and (iii) may set-off the amount of the stamp duty against future dividends on such shares. Parties to a share transfer may assume that any stamp duty arising in respect of a transaction in our shares has been paid unless one or both of such parties is otherwise notified by us.

Our ordinary shares, received by means of a gift or inheritance could be subject to Irish capital acquisitions tax. Irish capital acquisitions tax ("CAT") could apply to a gift or inheritance of our ordinary shares irrespective of the place of residence, ordinary residence or domicile of the parties. This is because our shares will be regarded as property situated in Ireland. The person who receives the gift or inheritance has primary liability for CAT. Gifts and inheritances passing between spouses are exempt from CAT. Children have a tax-free threshold of €310,000 per

lifetime in respect of taxable gifts or inheritances received from their parents for periods on or after October 12, 2016.

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The following table provides information with respect to purchases we made of our ordinary shares during the second quarter of 2017:

Period	(a) Total number of shares purchased	(b) Average price paid per share	(c) Total number of shares purchased as part of publicly announced plans or programs	(d) Dollar value of shares that may yet be purchased under the plans or programs
April 1 - April 29	1,974	\$ 62.98	—	\$ 800,000,049
April 30 - May 27	1,534,604	\$ 65.34	1,529,887	\$ 700,000,054
May 28 - June 30	782	\$ 66.37	—	\$ 700,000,054
Total	1,537,360		1,529,887	

The purchases in this column include 1,974 shares for the period April 1 - April 29, 4,717 shares for the period April 30 - May 27 and 782 shares for the period May 28 - June 30 deemed surrendered to us by participants in our (a) 2012 Stock and Incentive Plan (the "2012 Plan") and earlier stock incentive plans that are now outstanding under the 2012 Plan (collectively "the Plans") to satisfy the exercise price or withholding of tax obligations related to the exercise of stock options and vesting of restricted and performance shares.

The average price paid in this column includes shares deemed surrendered to us by participants in the Plans to (b) satisfy the exercise price for the exercise price of stock options and withholding tax obligations due upon stock option exercises and vesting of restricted and performance shares.

(c) The number of shares in this column represents the number of shares repurchased as part of our publicly announced plans to repurchase our ordinary shares up to a maximum dollar limit of \$1.0 billion.

In December 2014, our Board of Directors authorized the repurchase of our ordinary shares up to a maximum (d) dollar limit of \$1.0 billion. This authorization expires on December 31, 2019. We have \$700.0 million remaining availability for repurchases under the 2014 authorization.

ITEM 6. EXHIBITS

The exhibits listed in the accompanying Exhibit Index are filed as part of this Quarterly Report on Form 10-Q.

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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, on July 25, 2017.

Pentair plc
Registrant

By/s/ John L. Stauch
John L. Stauch
Executive Vice President and Chief Financial Officer

By/s/ Mark C. Borin
Mark C. Borin
Senior Vice President, Chief Accounting Officer and Treasurer

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Exhibit Index to Form 10-Q for the Period Ended June 30, 2017

- 3.1 Amended and Restated Memorandum and Articles of Association of Pentair plc (Incorporated by reference to Exhibit 3.1 in the Current Report on Form 8-K of Pentair plc filed with the Commission on May 9, 2017 (File No. 001-11625)).

- 4.1 Seventh Supplemental Indenture, dated as of May 26, 2017, among Pentair Finance S.A., Pentair plc, Pentair Investments Switzerland GmbH and Wells Fargo Bank, National Association as trustee (Incorporated by reference to Exhibit 4.1 in the Current Report on Form 8-K of Pentair plc filed with the Commission on May 31, 2017 (File No. 001-11625)).

- 4.2 Sixth Supplemental Indenture, dated as of May 26, 2017, among Pentair, Inc., Pentair plc, Pentair Investments Switzerland GmbH and Wells Fargo Bank, National Association, as trustee (Incorporated by reference to Exhibit 4.2 in the Current Report on Form 8-K of Pentair plc filed with the Commission on May 31, 2017 (File No. 001-11625)).

- 4.3 Fifth Supplemental Indenture, dated as of May 26, 2017, among Pentair Finance S.A., Pentair plc, Pentair Investments Switzerland GmbH and U.S. Bank National Association, as trustee (Incorporated by reference to Exhibit 4.3 in the Current Report on Form 8-K of Pentair plc filed with the Commission on May 31, 2017 (File No. 001-11625)).

- 10.1 Confidential Separation Agreement, dated as of May 2, 2017, between Pentair Management Company and Dennis J. Cassidy, Jr. (Incorporated by reference to Exhibit 10.1 in the Current Report on Form 8-K of Pentair plc filed with the Commission on June 5, 2017 (File No. 001-11625)).

- 31.1 Certification of Chief Executive Officer.

- 31.2 Certification of Chief Financial Officer.

- 32.1 Certification of Chief Executive Officer, Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

- 32.2 Certification of Chief Financial Officer, Pursuant to 18 U.S.C. Section 1350, as Adopted Pursuant to Section 906 of the Sarbanes-Oxley Act of 2002.

- 101 The following materials from Pentair plc's Quarterly Report on Form 10-Q for the quarter ended June 30, 2017 are filed herewith, formatted in XBRL (Extensible Business Reporting Language): (i) the Condensed Consolidated Statements of Operations and Comprehensive Income (Loss) for the three and six months ended June 30, 2017 and 2016, (ii) the Condensed Consolidated Balance Sheets as of June 30, 2017 and December 31, 2016, (iii) the Condensed Consolidated Statements of Cash Flows for the six months ended June 30, 2017 and 2016, (iv) the Condensed Consolidated Statements of Changes in Equity for the six months ended June 30, 2017 and 2016, and (v) Notes to Condensed Consolidated Financial Statements.