Summary of Consolidated Financial Results for the Three Months Ended June 30, 2019
[Japanese GAAP]

July 30, 2019

Company Name: NGK INSULATORS, LTD.
Stock Exchange Listings: Tokyo and Nagoya
Listing Code: 5333
URL: https://www.ngk-insulators.com/en/
Representative: President Taku Oshima (Mr.)
Contact: Vice President, General Manager Finance & Accounting Department Hideaki Shindo (Mr.) (TEL) +81-52-872-7230
Date of the Filing of Securities Report “Shihanki Hokokusho” (Scheduled): August 6, 2019
Date of Dividend Payment (Scheduled): —
Availability of supplementary explanatory materials prepared for financial results: None
Briefing session on financial results to be held: None

1. Consolidated Financial Results for the Three Months Ended June 30, 2019 (from April 1, 2019 to June 30, 2019)

(1) Consolidated Operating Results

<table>
<thead>
<tr>
<th></th>
<th>Net sales</th>
<th>Operating income</th>
<th>Ordinary income</th>
<th>Profit attributable to owners of parent</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Millions of yen</td>
<td>%</td>
<td>Millions of yen</td>
<td>%</td>
</tr>
<tr>
<td>Three months Ended</td>
<td>108,510</td>
<td>(5.8)</td>
<td>16,200</td>
<td>(15.2)</td>
</tr>
<tr>
<td>June 30, 2019</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three months Ended</td>
<td>115,250</td>
<td>4.7</td>
<td>19,114</td>
<td>1.6</td>
</tr>
<tr>
<td>June 30, 2018</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(Note) Comprehensive income:
- Three months Ended June 30, 2019: 2,486 million yen (79.8)%
- Three months Ended June 30, 2018: 12,328 million yen (41.8)%

<table>
<thead>
<tr>
<th></th>
<th>Profit per share</th>
<th>Diluted profit per share</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Yen</td>
<td>Yen</td>
</tr>
<tr>
<td>Three months Ended</td>
<td>35.47</td>
<td>35.41</td>
</tr>
<tr>
<td>June 30, 2019</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Three months Ended</td>
<td>36.70</td>
<td>36.64</td>
</tr>
<tr>
<td>June 30, 2018</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(2) Consolidated Financial Position

<table>
<thead>
<tr>
<th></th>
<th>Total assets</th>
<th>Total net assets</th>
<th>Ratio of net worth to total assets</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Millions of yen</td>
<td>Millions of yen</td>
<td>%</td>
</tr>
<tr>
<td>June 30, 2019</td>
<td>854,872</td>
<td>484,069</td>
<td>55.3</td>
</tr>
<tr>
<td>March 31, 2019</td>
<td>863,636</td>
<td>489,245</td>
<td>55.3</td>
</tr>
</tbody>
</table>

(Reference) Net worth:
- As of June 30, 2019: 472,664 million yen
- As of March 31, 2019: 477,516 million yen

2. Dividend Payment

<table>
<thead>
<tr>
<th></th>
<th>Cash dividends per share</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First quarter-end</td>
</tr>
<tr>
<td></td>
<td>Yen</td>
</tr>
<tr>
<td>Year ended March 31, 2019</td>
<td>Yen</td>
</tr>
<tr>
<td>Year ending March 31, 2020 (forecast)</td>
<td>—</td>
</tr>
</tbody>
</table>

(Note) Revision of cash dividend forecast during this period: None
3. Forecasts of Consolidated Financial Results for the Fiscal Year Ending March 31, 2020

(Percentage figures represent increase (decrease) from previous period.)

<table>
<thead>
<tr>
<th></th>
<th>Net sales</th>
<th>Operating income</th>
<th>Ordinary income</th>
<th>Profit attributable to owners of parent</th>
<th>Profit per share</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Millions of yen</td>
<td>%</td>
<td>Millions of yen</td>
<td>%</td>
<td>Millions of yen</td>
</tr>
<tr>
<td>Six months ending</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>September 30, 2019</td>
<td>230,000</td>
<td>0.8</td>
<td>27,000</td>
<td>(24.4)</td>
<td>25,000</td>
</tr>
<tr>
<td>Year ending</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>March 31, 2020</td>
<td>490,000</td>
<td>5.7</td>
<td>70,000</td>
<td>8.2</td>
<td>71,000</td>
</tr>
</tbody>
</table>

(Note) Revision of forecasts of consolidated financial results during this period : None

Notes
(1) Significant changes in subsidiaries during this period (changes in specified subsidiaries, "tokutei kogaisha" defined in the "Cabinet Office Ordinance on Disclosure of Corporate Information, etc.", involving a change of the scope of consolidation during this period) : None

   New — company (               ), Exclusion — company (               )

(2) Application of special accounting methods for preparing quarterly consolidated financial statements : None

(3) Changes in accounting policies, accounting estimates or retrospective restatements
   i. Changes due to revisions of accounting standards : Yes
   ii. Changes in accounting policies other than the above (i) : None
   iii. Changes in accounting estimates : None
   iv. Retrospective restatement : None

(Note) For details, please refer to “2. Consolidated Financial Statements and Notes (3) Notes to Consolidated Financial Statements (Changes in accounting policy)” on page 7 of the Appendix.

(4) Number of shares outstanding (Common Shares)
   i. Number of shares outstanding at period end including treasury stocks
      June 30, 2019    327,560,196 shares         March 31, 2019    327,560,196 shares
   ii. Number of treasury stocks at period end
        June 30, 2019    5,752,957 shares         March 31, 2019    5,779,637 shares
   iii. Average number of shares outstanding over period
        June 30, 2019    321,792,662 shares        June 30, 2018    321,765,859 shares

* These quarterly financial statements are not subject to the quarterly review procedure of certified public accountant or audit firm

* Explanation of appropriate use of results forecasts and other notes
This document contains forward-looking statements that are based on information and certain assumption NGK INSULATORS, LTD. (*NGK*) has acquired and deemed reasonable as of the time of the release and NGK does not guarantee the achievement of them. Actual future results and trends may differ materially from those in the forecasts due to a variety of factors.
## Contents of Appendix

1. **Qualitative Information on Quarterly Financial Statements** ......................................................... 2
   - (1) Explanation of Business Results ........................................................................................................... 2
   - (2) Explanation of Financial Position ......................................................................................................... 2
   - (3) Explanation of Forward-looking Statements including Forecasts for Consolidated Financial Statements ........................................ 2

2. **Consolidated Financial Statements and Notes** ................................................................................. 3
   - (1) Consolidated Balance Sheet .................................................................................................................. 3
   - (2) Consolidated Statement of Income and Consolidated Statement of Comprehensive Income ................................. 5
     - Consolidated Statement of Income ........................................................................................................... 5
     - Consolidated Statement of Comprehensive Income ............................................................................. 6
   - (3) Notes to Consolidated Financial Statements ........................................................................................ 7
     - (Note on the Assumption as a Going Concern) ....................................................................................... 7
     - (Significant Changes in Stockholder's Equity) ......................................................................................... 7
     - (Changes in Accounting Policy) .............................................................................................................. 7
     - (Additional Information) ....................................................................................................................... 7
     - (Other Notes) ...................................................................................................................................... 7
     - (Segment Information) ........................................................................................................................... 8
1. Qualitative Information on Quarterly Financial Statements

(1) Explanation of Business Results

During the three months ended June 30, 2019, the Japanese economy continued to recover gradually due to improvements in the employment and income environments. The overseas economies, notably the U.S. economy, continued on a recovery path, while the Chinese economy decelerated as reflected in its slower rate of growth.

In the Power Business Segment, the NGK Group saw a drop in demand for insulators against a backdrop of reduced capital investment by domestic electric power companies and increased competition overseas. In addition, shipment volumes of NAS batteries were poor. In the Ceramics Business Segment, while shipments of ceramic substrates for automotive catalytic converters (HONEYCERAM) dropped due to a decline in global passenger car sales, the distribution volume of gasoline particulate filters (GPF) and sensors for gasoline-fueled vehicles increased, with tightened regulation of emissions in Europe and China. In the Electronics Business Segment, the volume of beryllium copper alloy products and noise filters used in industrial equipment declined. In the Process Technology Business Segment, the distribution volume of products for semiconductor manufacturing equipment dropped against a backdrop of reduced capital investment by semiconductor manufacturers.

As a result of the above, consolidated net sales for the three months ended June 30, 2019 decreased by 5.8% year on year to ¥108,510 million. In terms of earnings, an increase in depreciation costs in addition to a decrease in net sales, causing operating income to fall 15.2% year on year to ¥16,200 million, and ordinary income was down 17.1% to ¥15,040 million. Profit attributable to owners of the parent decreased 3.4% to ¥11,413 million due to a decrease in income before income taxes and non-controlling interests despite the recording of refund of income taxes.

By segment, the Power Business Segment posted ¥9,468 million in net sales, a decrease of 23.7% year on year, and an operating loss of ¥1,285 million, compared to an operating loss of ¥1,275 million in the same period of the previous year. In the Ceramics Business Segment, net sales increased by 4.2% year on year to ¥64,408 million and operating income increased by 4.2% year on year to ¥15,760 million. In the Electronics Business Segment, net sales decreased by 4.8% year on year to ¥14,147 million and operating income increased by 82.5% year on year to ¥247 million. In the Process Technology Business Segment, net sales decreased by 21.5% year on year to ¥21,053 million and operating income decreased by 71.2% year on year to ¥1,474 million.

(2) Explanation of Financial Position

As of June 30, 2019, total assets were ¥854,872 million, a decrease of ¥8,763 million from the previous fiscal year-end. This was mainly due to decreases of securities and notes and accounts receivable trade despite increases in tangible assets and inventories.

Total liabilities decreased by ¥3,588 million from the previous fiscal year-end to ¥370,802 million. This was mainly due to decreases in income taxes payable and notes and accounts payable trade.

Total net assets stood at ¥484,069 million, or ¥5,175 million lower than the previous fiscal year-end, due to decreases in foreign currency translation adjustments and unrealized gain on available-for-sale securities despite an increase in retained earnings.

(3) Explanation of Forward—looking Statements including Forecasts for Consolidated Financial Statements

With regard to the financial results forecasts for the full year ending March 31, 2020, no revisions have been made to those announced on April 26, 2019 and the previous forecasts remain unchanged. If there is any necessity to revise the full year forecasts, updated information will be disclosed immediately.

Financial results forecasts are based on information that are currently available and actual results may differ materially from those in the forecasts due to various factors.
2. Consolidated Financial Statements and Notes

(1) Consolidated Balance Sheet

<table>
<thead>
<tr>
<th>Assets</th>
<th>As of June 30, 2019</th>
<th>As of March 31, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cash and bank deposits</td>
<td>97,750</td>
<td>97,133</td>
</tr>
<tr>
<td>Notes and accounts receivable</td>
<td>99,148</td>
<td>106,413</td>
</tr>
<tr>
<td>Securities</td>
<td>52,030</td>
<td>67,029</td>
</tr>
<tr>
<td>Inventories</td>
<td>157,360</td>
<td>148,031</td>
</tr>
<tr>
<td>Other</td>
<td>20,424</td>
<td>24,886</td>
</tr>
<tr>
<td>Allowance for doubtful accounts</td>
<td>(119)</td>
<td>(124)</td>
</tr>
<tr>
<td>Total current assets</td>
<td>426,594</td>
<td>443,370</td>
</tr>
<tr>
<td><strong>Non-current assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Tangible assets</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Buildings and structures</td>
<td>96,941</td>
<td>94,934</td>
</tr>
<tr>
<td>Machinery and vehicles</td>
<td>146,287</td>
<td>135,880</td>
</tr>
<tr>
<td>Other</td>
<td>95,720</td>
<td>95,247</td>
</tr>
<tr>
<td>Total tangible assets</td>
<td>338,949</td>
<td>326,061</td>
</tr>
<tr>
<td><strong>Intangible assets</strong></td>
<td>3,180</td>
<td>3,700</td>
</tr>
<tr>
<td>Investments and other assets</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Investment securities</td>
<td>66,338</td>
<td>69,860</td>
</tr>
<tr>
<td>Other</td>
<td>20,081</td>
<td>20,790</td>
</tr>
<tr>
<td>Allowance for doubtful accounts</td>
<td>(270)</td>
<td>(147)</td>
</tr>
<tr>
<td>Total investments and other assets</td>
<td>86,149</td>
<td>90,503</td>
</tr>
<tr>
<td><strong>Total non-current assets</strong></td>
<td>428,278</td>
<td>420,265</td>
</tr>
<tr>
<td><strong>Total assets</strong></td>
<td>854,872</td>
<td>863,636</td>
</tr>
</tbody>
</table>
### Liabilities

<table>
<thead>
<tr>
<th></th>
<th>As of June 30, 2019</th>
<th>As of March 31, 2019</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Notes and accounts payable</td>
<td>49,169</td>
<td>51,353</td>
</tr>
<tr>
<td>Trade</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short-term borrowings</td>
<td>5,172</td>
<td>4,230</td>
</tr>
<tr>
<td>Current portion of long-term</td>
<td>28,114</td>
<td>29,198</td>
</tr>
<tr>
<td>borrowings</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Income taxes payable</td>
<td>7,346</td>
<td>11,731</td>
</tr>
<tr>
<td>Provision for NAS</td>
<td>1,922</td>
<td>2,029</td>
</tr>
<tr>
<td>battery safety measures</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Provision for loss related to</td>
<td>1,177</td>
<td>1,177</td>
</tr>
<tr>
<td>competition law</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other</td>
<td>45,889</td>
<td>48,065</td>
</tr>
<tr>
<td><strong>Total current liabilities</strong></td>
<td>138,793</td>
<td>147,786</td>
</tr>
<tr>
<td><strong>Long-term liabilities</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bonds payable</td>
<td>25,000</td>
<td>25,000</td>
</tr>
<tr>
<td>Net defined benefit liability</td>
<td>20,905</td>
<td>20,934</td>
</tr>
<tr>
<td>Other</td>
<td>9,805</td>
<td>9,675</td>
</tr>
<tr>
<td><strong>Total long-term liabilities</strong></td>
<td>232,009</td>
<td>226,604</td>
</tr>
<tr>
<td><strong>Total liabilities</strong></td>
<td>370,802</td>
<td>374,391</td>
</tr>
</tbody>
</table>

### Net assets

|                                |                     |                     |
| **Shareholders' equity**       |                     |                     |
| Common stock                   | 69,849              | 69,849              |
| Capital surplus                | 71,973              | 71,978              |
| Retained earnings              | 347,119             | 343,323             |
| Treasury stock                 | (12,065)            | (12,122)            |
| **Total shareholders' equity** | 476,876             | 473,029             |
| Accumulated other comprehensive income |                     |                     |
| Unrealized gain on             | 19,247              | 21,260              |
| available-for-sale securities  |                     |                     |
| Deferred gain (loss) on        | (68)                | (136)               |
| derivatives under hedge        |                     |                     |
| accounting                     |                     |                     |
| Foreign currency translation   | (17,942)            | (11,056)            |
| adjustments                    |                     |                     |
| Defined retirement benefit     | (5,448)             | (5,580)             |
| plans                          |                     |                     |
| **Total accumulated other      | (4,212)             | 4,486               |
| comprehensive income           |                     |                     |
| Stock acquisition rights       | 855                 | 923                 |
| Non-controlling interests      | 10,550              | 10,805              |
| **Total net assets**           | 484,069             | 489,245             |
| **Total liabilities and net    | 854,872             | 863,636             |
| assets**                       |                     |                     |
## Consolidated Statement of Income

### Consolidated Statement of Income

<table>
<thead>
<tr>
<th></th>
<th>Three months ended June 30, 2019</th>
<th>Three months ended June 30, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Net sales</strong></td>
<td>108,510</td>
<td>115,250</td>
</tr>
<tr>
<td>Cost of sales</td>
<td>73,525</td>
<td>78,033</td>
</tr>
<tr>
<td><strong>Gross profit</strong></td>
<td>34,985</td>
<td>37,217</td>
</tr>
<tr>
<td>Selling, general and administrative expenses</td>
<td>18,785</td>
<td>18,103</td>
</tr>
<tr>
<td><strong>Operating income</strong></td>
<td>16,200</td>
<td>19,114</td>
</tr>
<tr>
<td>Non-operating income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest income</td>
<td>134</td>
<td>183</td>
</tr>
<tr>
<td>Dividend income</td>
<td>674</td>
<td>626</td>
</tr>
<tr>
<td>Gain on valuation of derivatives</td>
<td>584</td>
<td>—</td>
</tr>
<tr>
<td>Other</td>
<td>327</td>
<td>177</td>
</tr>
<tr>
<td>Total non-operating income</td>
<td>1,721</td>
<td>987</td>
</tr>
<tr>
<td>Non-operating expenses</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Interest expense</td>
<td>724</td>
<td>659</td>
</tr>
<tr>
<td>Equity in loss of unconsolidated subsidiaries and associated companies</td>
<td>297</td>
<td>397</td>
</tr>
<tr>
<td>Foreign exchange loss</td>
<td>760</td>
<td>389</td>
</tr>
<tr>
<td>Loss on valuation of derivatives</td>
<td>—</td>
<td>309</td>
</tr>
<tr>
<td>Other</td>
<td>1,097</td>
<td>201</td>
</tr>
<tr>
<td>Total non-operating expense</td>
<td>2,880</td>
<td>1,957</td>
</tr>
<tr>
<td><strong>Ordinary income</strong></td>
<td>15,040</td>
<td>18,144</td>
</tr>
<tr>
<td>Extraordinary income</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gain on sales of fixed assets</td>
<td>37</td>
<td>28</td>
</tr>
<tr>
<td>Gain on sales of investment securities</td>
<td>10</td>
<td>35</td>
</tr>
<tr>
<td>Total extraordinary income</td>
<td>48</td>
<td>64</td>
</tr>
<tr>
<td>Extraordinary loss</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Loss on sales and disposals of fixed assets</td>
<td>173</td>
<td>92</td>
</tr>
<tr>
<td>Impairment loss</td>
<td>149</td>
<td>265</td>
</tr>
<tr>
<td>Provision of reserve for loss related to competition law</td>
<td>—</td>
<td>178</td>
</tr>
<tr>
<td>Total extraordinary loss</td>
<td>323</td>
<td>536</td>
</tr>
<tr>
<td><strong>Income before income taxes and non-controlling interests</strong></td>
<td>14,766</td>
<td>17,672</td>
</tr>
<tr>
<td>Income taxes-current</td>
<td>2,647</td>
<td>3,701</td>
</tr>
<tr>
<td>Refund of income taxes</td>
<td>※1 (425)</td>
<td>—</td>
</tr>
<tr>
<td>Income taxes-deferred</td>
<td>1,248</td>
<td>2,149</td>
</tr>
<tr>
<td>Income taxes-total</td>
<td>3,470</td>
<td>5,850</td>
</tr>
<tr>
<td><strong>Profit</strong></td>
<td>11,295</td>
<td>11,821</td>
</tr>
<tr>
<td>Profit (loss) attributable to non-controlling interests</td>
<td>(117)</td>
<td>12</td>
</tr>
<tr>
<td>Profit attributable to owners of parent</td>
<td>11,413</td>
<td>11,809</td>
</tr>
</tbody>
</table>
### Consolidated Statement of Comprehensive Income

(Millions of yen)

<table>
<thead>
<tr>
<th></th>
<th>Three months ended June 30, 2019</th>
<th>Three months ended June 30, 2018</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Profit</strong></td>
<td>11,295</td>
<td>11,821</td>
</tr>
<tr>
<td><strong>Other comprehensive income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Unrealized gain(loss) on available-for-sale securities</td>
<td>(2,013)</td>
<td>628</td>
</tr>
<tr>
<td>Deferred gain on derivatives under hedge accounting</td>
<td>72</td>
<td>33</td>
</tr>
<tr>
<td>Foreign currency translation adjustments</td>
<td>(7,037)</td>
<td>(213)</td>
</tr>
<tr>
<td>Defined retirement benefit plans</td>
<td>96</td>
<td>279</td>
</tr>
<tr>
<td>Share of other comprehensive (loss) income of associates accounted for by using the equity method</td>
<td>72</td>
<td>(221)</td>
</tr>
<tr>
<td><strong>Total other comprehensive income</strong></td>
<td>(8,809)</td>
<td>506</td>
</tr>
<tr>
<td><strong>Comprehensive income</strong></td>
<td>2,486</td>
<td>12,328</td>
</tr>
<tr>
<td><strong>Comprehensive income attributable to:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Owners of parent</td>
<td>2,714</td>
<td>12,358</td>
</tr>
<tr>
<td>Non-controlling interests</td>
<td>(227)</td>
<td>(30)</td>
</tr>
</tbody>
</table>
(3) Notes to Consolidated Financial Statements
(Note on the Assumption as a Going Concern)
Not applicable

(Significant Changes in Stockholder’s Equity)
Not applicable

(Changes in Accounting Policy)
The NGK Group’s subsidiaries reporting under IFRS have applied IFRS 16 “Leases” from the three months Ended June 30, 2019. Accordingly, lessees in principal recognize all leases as assets and liabilities on the balance sheet. In accordance with transitional treatment of IFRS 16, the Group has recognized the cumulative effect of applying this standard as an adjustment of the retained earnings at the beginning of the three months ended June 30, 2019.

The impact of this change on the consolidated financial statements for the three months ended June 30, 2019 is insignificant.

(Additional Information)

(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
(Additional Information)
## Segment Information

(1) Three months Ended June 30, 2019 (from April 1, 2019 to June 30, 2019)

<table>
<thead>
<tr>
<th>Business Segment</th>
<th>Sales to customers</th>
<th>Intersegment sales</th>
<th>Total</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>9,460</td>
<td>7</td>
<td>108,510</td>
<td>—</td>
</tr>
<tr>
<td>Ceramics</td>
<td>64,404</td>
<td>3</td>
<td>108,510</td>
<td>—</td>
</tr>
<tr>
<td>Electronics</td>
<td>14,146</td>
<td>1</td>
<td>109,078</td>
<td>(567)</td>
</tr>
<tr>
<td>Process Technology</td>
<td>20,499</td>
<td>554</td>
<td>108,510</td>
<td>—</td>
</tr>
<tr>
<td>Total</td>
<td>14,147</td>
<td>567</td>
<td>108,510</td>
<td>—</td>
</tr>
<tr>
<td>Operating income(loss)</td>
<td>(1,285)</td>
<td>15,760</td>
<td>16,197</td>
<td>2</td>
</tr>
</tbody>
</table>

(Notes) Elimination or adjustment of operating income (loss) is an adjustment of intersegment transactions.

(2) Three months Ended June 30, 2018 (from April 1, 2018 to June 30, 2018)

<table>
<thead>
<tr>
<th>Business Segment</th>
<th>Sales to customers</th>
<th>Intersegment sales</th>
<th>Total</th>
<th>Consolidated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>12,409</td>
<td>7</td>
<td>115,250</td>
<td>—</td>
</tr>
<tr>
<td>Ceramics</td>
<td>61,813</td>
<td>0</td>
<td>115,250</td>
<td>—</td>
</tr>
<tr>
<td>Electronics</td>
<td>14,859</td>
<td>—</td>
<td>115,912</td>
<td>(661)</td>
</tr>
<tr>
<td>Process Technology</td>
<td>26,169</td>
<td>653</td>
<td>115,250</td>
<td>—</td>
</tr>
<tr>
<td>Total</td>
<td>14,859</td>
<td>661</td>
<td>115,250</td>
<td>—</td>
</tr>
<tr>
<td>Operating income(loss)</td>
<td>(1,275)</td>
<td>15,131</td>
<td>19,112</td>
<td>2</td>
</tr>
</tbody>
</table>

(Notes) Elimination or adjustment of operating income (loss) is an adjustment of intersegment transactions.