

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). <p style="text-align: center;">▶ Complete all entries in accordance with the instructions to the Form 5500.</p>	OMB Nos. 1210-0110 1210-0089 2018 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information
For calendar plan year 2018 or fiscal plan year beginning <u>01/01/2018</u> and ending <u>12/31/2018</u>	
A This return/report is for:	☐ a multiemployer plan ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☒ a single-employer plan ☐ a DFE (specify) ____
B This return/report is:	☐ the first return/report ☐ the final return/report ☐ an amended return/report ☐ a short plan year return/report (less than 12 months)
C If the plan is a collectively-bargained plan, check here. ☐	
D Check box if filing under:	☒ Form 5558 ☐ automatic extension ☐ the DFVC program ☐ special extension (enter description)

Part II	Basic Plan Information —enter all requested information		
1a Name of plan <u>PPG INDUSTRIES EMPLOYEE SAVINGS PLAN</u>	1b Three-digit plan number (PN) ▶	<u>384</u>	
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>PPG INDUSTRIES, INC.</u> <u>ONE PPG PLACE</u> <u>PITTSBURGH, PA 15272</u>		1c Effective date of plan <u>07/01/1988</u>	
		2b Employer Identification Number (EIN) <u>25-0730780</u>	
		2c Plan Sponsor's telephone number <u>412-434-3916</u>	
		2d Business code (see instructions) <u>325500</u>	

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including accompanying schedules, statements and attachments, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	10/07/2019	KAREN RATHBURN
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Form 5500 (2018)
v. 171027

3a Plan administrator's name and address ☐ Same as Plan Sponsor KAREN P. RATHBURN PPG INDUSTRIES, INC. ONE PPG PLACE PITTSBURGH, PA 15272	3b Administrator's EIN 27-5040608 3c Administrator's telephone number 412-434-3916
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report: a Sponsor's name c Plan Name	4b EIN 4d PN
5 Total number of participants at the beginning of the plan year	5 24410
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	6a(1) 16585 6a(2) 17070 6b 455 6c 7587 6d 25112 6e 264 6f 25376 6g 23324 6h 485
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	7
8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions: 2E 2F 2H 2J 2K 2P 3H 3I b If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristics Codes in the instructions:	

9a Plan funding arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
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10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)

a Pension Schedules

- (1)** ☒ **R** (Retirement Plan Information)
- (2)** ☐ **MB** (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
- (3)** ☐ **SB** (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

b General Schedules

- (1)** ☒ **H** (Financial Information)
- (2)** ☐ **I** (Financial Information – Small Plan)
- (3)** ☐ 0 **A** (Insurance Information)
- (4)** ☒ **C** (Service Provider Information)
- (5)** ☒ **D** (DFE/Participating Plan Information)
- (6)** ☐ **G** (Financial Transaction Schedules)

Part III Form M-1 Compliance Information (to be completed by welfare benefit plans)

11a If the plan provides welfare benefits, was the plan subject to the Form M-1 filing requirements during the plan year? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

If "Yes" is checked, complete lines 11b and 11c.

11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) ☐ Yes ☐ No

11c Enter the Receipt Confirmation Code for the 2018 Form M-1 annual report. If the plan was not required to file the 2018 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE C (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Service Provider Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110
		2018
		This Form is Open to Public Inspection.

For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018	
A Name of plan PPG INDUSTRIES EMPLOYEE SAVINGS PLAN	B Three-digit plan number (PN) ▶ 384
C Plan sponsor's name as shown on line 2a of Form 5500 PPG INDUSTRIES, INC.	D Employer Identification Number (EIN) 25-0730780

Part I	Service Provider Information (see instructions)
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You must complete this Part, in accordance with the instructions, to report the information required for **each person** who received, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of monetary value) in connection with services rendered to the plan or the person's position with the plan during the plan year. If a person received **only** eligible indirect compensation for which the plan received the required disclosures, you are required to answer line 1 but are not required to include that person when completing the remainder of this Part.

1 Information on Persons Receiving Only Eligible Indirect Compensation

a Check "Yes" or "No" to indicate whether you are excluding a person from the remainder of this Part because they received only eligible indirect compensation for which the plan received the required disclosures (see instructions for definitions and conditions)..... ☒ Yes ☐ No

b If you answered line 1a "Yes," enter the name and EIN or address of each person providing the required disclosures for the service providers who received only eligible indirect compensation. Complete as many entries as needed (see instructions).

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
BLACKROCK INSTITUTIONAL TRUST CO	400 HOWARD STREET SAN FRANCISCO, CA 94105

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
THE BANK OF NEW YORK MELLON	240 GREENWICH STREET NEW YORK, NY 10286

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
ALIGHT FINANCIAL SOLUTIONS, LLC	82-1061233

(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation	
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(b) Enter name and EIN or address of person who provided you disclosures on eligible indirect compensation

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

ALIGHT SOLUTIONS LLC

82-1061233

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
15 50	NONE	842949	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

PPG INDUSTRIES, INC.

25-0730780

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	PLAN SPONSOR	407389	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

PRICEWATERHOUSECOOPERS LLC

13-4008324

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10 50	NONE	96000	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

WILSHIRE ASSOCIATES INCORPORATED

95-2755361

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
28 50	NONE	90200	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

FIDELITY MANAGEMENT TRUST COMPANY

04-2723880

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 28 50 52	NONE	82500	Yes ☒ No ☐	Yes ☒ No ☐	0	Yes ☐ No ☒

(a) Enter name and EIN or address (see instructions)

K & L GATES LLP

25-0921018

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
29 50	NONE	50670	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

2. Information on Other Service Providers Receiving Direct or Indirect Compensation. Except for those persons for whom you answered "Yes" to line 1a above, complete as many entries as needed to list each person receiving, directly or indirectly, \$5,000 or more in total compensation (i.e., money or anything else of value) in connection with services rendered to the plan or their position with the plan during the plan year. (See instructions).

(a) Enter name and EIN or address (see instructions)

AON CORPORATION

22-2232264

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
21 50	NONE	127311	Yes ☐ No ☒	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

(a) Enter name and EIN or address (see instructions)

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
			Yes ☐ No ☐	Yes ☐ No ☐		Yes ☐ No ☐

Part I Service Provider Information (continued)

3. If you reported on line 2 receipt of indirect compensation, other than eligible indirect compensation, by a service provider, and the service provider is a fiduciary or provides contract administrator, consulting, custodial, investment advisory, investment management, broker, or recordkeeping services, answer the following questions for (a) each source from whom the service provider received \$1,000 or more in indirect compensation and (b) each source for whom the service provider gave you a formula used to determine the indirect compensation instead of an amount or estimated amount of the indirect compensation. Complete as many entries as needed to report the required information for each source.

(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	
(a) Enter service provider name as it appears on line 2	(b) Service Codes (see instructions)	(c) Enter amount of indirect compensation
(d) Enter name and EIN (address) of source of indirect compensation	(e) Describe the indirect compensation, including any formula used to determine the service provider's eligibility for or the amount of the indirect compensation.	

Part II Service Providers Who Fail or Refuse to Provide Information

4 Provide, to the extent possible, the following information for each service provider who failed or refused to provide the information necessary to complete this Schedule.

(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide
(a) Enter name and EIN or address of service provider (see instructions)	(b) Nature of Service Code(s)	(c) Describe the information that the service provider failed or refused to provide

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)
(complete as many entries as needed)

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

a Name:	b EIN:
c Position:	
d Address:	e Telephone:

Explanation:

SCHEDULE D (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection.
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan <u>PPG INDUSTRIES EMPLOYEE SAVINGS PLAN</u>	B Three-digit plan number (PN) ►	<u>384</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>PPG INDUSTRIES, INC.</u>	D Employer Identification Number (EIN) <u>25-0730780</u>	

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: <u>EB DAILY LIQUIDITY ACWI EX-U.S.FD</u>		
b Name of sponsor of entity listed in (a): <u>MELLON BANK, N.A.</u>		
c EIN-PN <u>25-6078093-206</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>232784638</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX RETIREMENT FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>71-0986421-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>87411139</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX 2020 FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>71-0986422-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>64929500</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX 2025 FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>20-5114920-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>89186290</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX 2030 FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>71-0986424-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>79539141</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX 2035 FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>20-5114956-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>60577429</u>
a Name of MTIA, CCT, PSA, or 103-12 IE: <u>LIFEPATH INDEX 2040 FUND</u>		
b Name of sponsor of entity listed in (a): <u>BLACKROCK</u>		
c EIN-PN <u>71-0986419-001</u>	d Entity code <u>C</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>49830788</u>

a Name of MTIA, CCT, PSA, or 103-12 IE: [LIFEPATH INDEX 2045 FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 20-5115008-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 33337077
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a Name of MTIA, CCT, PSA, or 103-12 IE: [LIFEPATH INDEX 2050 FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 26-0896020-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 35446108
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a Name of MTIA, CCT, PSA, or 103-12 IE: [LIFEPATH INDEX 2055 FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 27-2470604-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 21549119
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a Name of MTIA, CCT, PSA, or 103-12 IE: [LIFEPATH INDEX 2060 FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 47-1878775-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 5915130
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a Name of MTIA, CCT, PSA, or 103-12 IE: [S & P 500 TARGET STRATEGY FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 94-3291426-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 484883160
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a Name of MTIA, CCT, PSA, or 103-12 IE: [TIPS INDEX FUND](#)**b** Name of sponsor of entity listed in (a): [BLACKROCK](#)

c EIN-PN 36-4495972-001	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 48647584
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a Name of MTIA, CCT, PSA, or 103-12 IE: [EB DAILY LIQUIDITY BOND INDEX FUND](#)**b** Name of sponsor of entity listed in (a): [MELLON BANK, N.A.](#)

c EIN-PN 25-6078093-085	d Entity code C	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) 194836140
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a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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a Name of MTIA, CCT, PSA, or 103-12 IE:**b** Name of sponsor of entity listed in (a):

c EIN-PN	d Entity code	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions)
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Part II Information on Participating Plans (to be completed by DFEs)

(Complete as many entries as needed to report all participating plans)

a Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN**a** Plan name**b** Name of
plan sponsor**c** EIN-PN

SCHEDULE H (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2018 This Form is Open to Public Inspection
For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018		
A Name of plan PPG INDUSTRIES EMPLOYEE SAVINGS PLAN	B Three-digit plan number (PN) ►	384
C Plan sponsor's name as shown on line 2a of Form 5500 PPG INDUSTRIES, INC.	D Employer Identification Number (EIN) 25-0730780	

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)	0	2766075
(2) Participant contributions	1b(2)	0	2091893
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)	8987846	12672653
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property).....	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans.....	1c(8)	41381110	42308232
(9) Value of interest in common/collective trusts	1c(9)	1612354516	1488873243
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)		
(12) Value of interest in 103-12 investment entities.....	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)	621448629	573132639
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)	637627747	629011243

1d Employer-related investments:

		(a) Beginning of Year	(b) End of Year
(1) Employer securities	1d(1)	881037917	707873438
(2) Employer real property	1d(2)		
e Buildings and other property used in plan operation	1e		
f Total assets (add all amounts in lines 1a through 1e)	1f	3802837765	3458729416

Liabilities

g Benefit claims payable	1g		
h Operating payables	1h		
i Acquisition indebtedness	1i		
j Other liabilities	1j		
k Total liabilities (add all amounts in lines 1g through 1j)	1k	0	0

Net Assets

l Net assets (subtract line 1k from line 1f)	1l	3802837765	3458729416
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Part II Income and Expense Statement

2 Plan income, expenses, and changes in net assets for the year. Include all income and expenses of the plan, including any trust(s) or separately maintained fund(s) and any payments/receipts to/from insurance carriers. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 2a, 2b(1)(E), 2e, 2f, and 2g.

Income

		(a) Amount	(b) Total
a Contributions:			
(1) Received or receivable in cash from: (A) Employers	2a(1)(A)	64123067	
(B) Participants	2a(1)(B)	75583991	
(C) Others (including rollovers)	2a(1)(C)	6039986	
(2) Noncash contributions	2a(2)		
(3) Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)		145747044
b Earnings on investments:			
(1) Interest:			
(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)		
(B) U.S. Government securities	2b(1)(B)		
(C) Corporate debt instruments	2b(1)(C)		
(D) Loans (other than to participants)	2b(1)(D)		
(E) Participant loans	2b(1)(E)	1797620	
(F) Other	2b(1)(F)	173995	
(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)		1971615
(2) Dividends: (A) Preferred stock	2b(2)(A)		
(B) Common stock	2b(2)(B)	28238576	
(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	2805119	
(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)		31043695
(3) Rents	2b(3)		
(4) Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)		
(B) Aggregate carrying amount (see instructions)	2b(4)(B)		
(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)		0
(5) Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)		
(B) Other	2b(5)(B)	-5556546	
(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)		-5556546

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		
(9) Net investment gain (loss) from 103-12 investment entities	2b(9)		
(10) Net investment gain (loss) from registered investment companies (e.g., mutual funds).....	2b(10)		-233307456
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		-60101648

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	314667314	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		314667314
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees.....	2i(1)		
(2) Contract administrator fees.....	2i(2)		
(3) Investment advisory and management fees.....	2i(3)		
(4) Other	2i(4)	939688	
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		939688
j Total expenses. Add all expense amounts in column (b) and enter total	2j		315607002

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-375708650
l Transfers of assets:			
(1) To this plan.....	2l(1)		31600301
(2) From this plan.....	2l(2)		

Part III Accountant's Opinion

3 Complete lines 3a through 3c if the opinion of an independent qualified public accountant is attached to this Form 5500. Complete line 3d if an opinion is not attached.

a The attached opinion of an independent qualified public accountant for this plan is (see instructions):

(1) ☒ Unqualified (2) ☐ Qualified (3) ☐ Disclaimer (4) ☐ Adverse

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)? ☐ Yes ☒ No

c Enter the name and EIN of the accountant (or accounting firm) below:

(1) Name: PRICEWATERHOUSECOOPERS LLC

(2) EIN: 13-4008324

d The opinion of an independent qualified public accountant is **not attached** because:

(1) ☐ This form is filed for a CCT, PSA, or MTIA. (2) ☐ It will be attached to the next Form 5500 pursuant to 29 CFR 2520.104-50.

Part IV Compliance Questions

4 CCTs and PSAs do not complete Part IV. MTIAs, 103-12 IEs, and GIAs do not complete lines 4a, 4e, 4f, 4g, 4h, 4k, 4m, 4n, or 5. 103-12 IEs also do not complete lines 4j and 4l. MTIAs also do not complete line 4l.

During the plan year:

a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? Continue to answer "Yes" for any prior year failures until fully corrected. (See instructions and DOL's Voluntary Fiduciary Correction Program.).....

b Were any loans by the plan or fixed income obligations due the plan in default as of the close of the plan year or classified during the year as uncollectible? Disregard participant loans secured by participant's account balance. (Attach Schedule G (Form 5500) Part I if "Yes" is checked.)

	Yes	No	Amount
4a		X	
4b		X	

		Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.).....	4d		X	
e Was this plan covered by a fidelity bond?	4e	X		500000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?.....	4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?.....	4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i	X		
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)	4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k		X	
l Has the plan failed to provide any benefit when due under the plan?.....	4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m		X	
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n			

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?..... ☐ Yes ☒ No
 If "Yes," enter the amount of any plan assets that reverted to the employer this year _____.

5b If, during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)

5b(1) Name of plan(s)	5b(2) EIN(s)	5b(3) PN(s)

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☐ Yes ☐ No ☐ Not determined
 If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year _____. (See instructions.)

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2018 This Form is Open to Public Inspection.
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For calendar plan year 2018 or fiscal plan year beginning 01/01/2018 and ending 12/31/2018

A Name of plan <u>PPG INDUSTRIES EMPLOYEE SAVINGS PLAN</u>	B Three-digit plan number (PN) ▶ <u>384</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>PPG INDUSTRIES, INC.</u>	D Employer Identification Number (EIN) <u>25-0730780</u>

Part I	Distributions
---------------	----------------------

All references to distributions relate only to payments of benefits during the plan year.

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions	1	<u>0</u>
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): <u>04-3516284</u>		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3	

Part II	Funding Information (If the plan is not subject to the minimum funding requirements of section 412 of the Internal Revenue Code or ERISA section 302, skip this Part.)
----------------	---

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)?	☐ Yes	☐ No	☐ N/A
If the plan is a defined benefit plan, go to line 8.			
5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. Date: Month _____ Day _____ Year _____ If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.			
6 a Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived)	6a		
b Enter the amount contributed by the employer to the plan for this plan year	6b		
c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount)	6c		
If you completed line 6c, skip lines 8 and 9.			
7 Will the minimum funding amount reported on line 6c be met by the funding deadline?	☐ Yes	☐ No	☐ N/A
8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change?	☐ Yes	☐ No	☐ N/A

Part III	Amendments
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9 If this is a defined benefit pension plan, were any amendments adopted during this plan year that increased or decreased the value of benefits? If yes, check the appropriate box. If no, check the "No" box.....	☐ Increase	☐ Decrease	☐ Both	☐ No
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Part IV	ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.
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10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan?	☐ Yes	☒ No
11 a Does the ESOP hold any preferred stock?	☐ Yes	☒ No
b If the ESOP has an outstanding exempt loan with the employer as lender, is such loan part of a "back-to-back" loan? (See instructions for definition of "back-to-back" loan.)	☐ Yes	☒ No
12 Does the ESOP hold any stock that is not readily tradable on an established securities market?	☐ Yes	☒ No

For Paperwork Reduction Act Notice, see the Instructions for Form 5500.

Schedule R (Form 5500) 2018
v. 171027

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

13 Enter the following information for each employer that contributed more than 5% of total contributions to the plan during the plan year (measured in dollars). See instructions. *Complete as many entries as needed to report all applicable employers.*

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

d Date collective bargaining agreement expires (If employer contributes under more than one collective bargaining agreement, check box ☐ and see instructions regarding required attachment. Otherwise, enter the applicable date.) Month _____ Day _____ Year _____

e Contribution rate information (If more than one rate applies, check this box ☐ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)

(1) Contribution rate (in dollars and cents) _____

(2) Base unit measure: ☐ Hourly ☐ Weekly ☐ Unit of production ☐ Other (specify): _____

- 14** Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:

a The current year

b The plan year immediately preceding the current plan year

c The second preceding plan year

14a**14b****14c**

- 15** Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:

a The corresponding number for the plan year immediately preceding the current plan year

b The corresponding number for the second preceding plan year

15a**15b**

- 16** Information with respect to any employers who withdrew from the plan during the preceding plan year:

a Enter the number of employers who withdrew during the preceding plan year

b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers

16a**16b**

- 17** If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐

Part VI Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans

- 18** If any liabilities to participants or their beneficiaries under the plan as of the end of the plan year consist (in whole or in part) of liabilities to such participants and beneficiaries under two or more pension plans as of immediately before such plan year, check box and see instructions regarding supplemental information to be included as an attachment ☐

- 19** If the total number of participants is 1,000 or more, complete lines (a) through (c)

- a** Enter the percentage of plan assets held as:

Stock: _____ % Investment-Grade Debt: _____ % High-Yield Debt: _____ % Real Estate: _____ % Other: _____ %

- b** Provide the average duration of the combined investment-grade and high-yield debt:

☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☐ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more

- c** What duration measure was used to calculate line 19(b)?

☐ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

PPG Industries

Employee Savings Plan

Employer ID No: 25-0730780

Plan No: 384

Financial Statements as of and for the Years Ended December 31, 2018 and 2017,
Supplemental Schedule as of December 31, 2018,
and Report of Independent Auditors

PPG Industries Employee Savings Plan
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<u>Statements of Net Assets Available for Benefits as of December 31, 2018 and 2017</u>	<u>3</u>
<u>Statements of Changes in Net Assets Available for Benefits for the years ended December 31, 2018 and 2017</u>	<u>4</u>
<u>Notes to the Financial Statements as of and for the Years Ended December 31, 2018 and 2017</u>	<u>5-10</u>
<u>Form 5500, Schedule H, Part IV, Line 4i — Schedule of Assets (Held at End of Year) as of December 31, 2018</u>	<u>11-19</u>

NOTE: All other schedules required by Section 2520.103-10 of the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 have been omitted because they are not applicable.

Report of Independent Auditors

To the Administrator of PPG Industries Employee Savings Plan

We have audited the accompanying financial statements of PPG Industries Employee Savings Plan (the “Plan”), which comprise the statements of net assets available for benefits as of December 31, 2018 and 2017, and the related statement of changes in net assets available for benefits for the years ended December 31, 2018, and 2017, and the related notes to the financial statements.

Management’s Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of the financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditors’ Responsibility

Our responsibility is to express an opinion on the financial statements based on our audits. We conducted our audits in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on our judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, we consider internal control relevant to the entity’s preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the entity’s internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the net assets available for benefits of the Plan as of December 31, 2018 and 2017 and the changes in net assets available for benefits for the years ended December 31, 2018, and 2017, in accordance with accounting principles generally accepted in the United States of America.

Other Matter

Our audits were conducted for the purpose of forming an opinion on the financial statements as a whole. The supplemental schedule of Form 5500, Schedule H, Part IV, Line 4i - Schedule of Assets (Held as of December 31, 2018) are presented for the purpose of additional analysis and are not a required part of the financial statements but are supplementary information required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974. Such information is the responsibility of the Plan's management and was derived from and relates directly to the underlying accounting and other records used to prepare the financial statements. The information has been subjected to the auditing procedures applied in the audits of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves and other additional procedures, in accordance with auditing standards generally accepted in the United States of America. In our opinion, the information is fairly stated in all material respects in relation to the financial statements as a whole.

/s/PricewaterhouseCoopers LLP
Pittsburgh, Pennsylvania
June 17, 2019

PPG Industries Employee Savings Plan

Statements of Net Assets Available for Benefits

As of December 31, 2018 and 2017

(\$ in millions)	2018	2017
Net Assets:		
Investments at fair value		
Mutual funds	\$ 573	\$ 621
PPG Industries, Inc. common stock	708	881
Money market funds	13	9
Common-collective trusts	1,489	1,612
Investments at contract value		
Stable value fund account	635	638
Total investments	\$ 3,418	\$ 3,761
Receivables:		
Employer contributions	3	—
Employee contributions	2	—
Notes receivable from participants	42	42
Net Assets Available for Benefits	\$ 3,465	\$ 3,803

The accompanying notes to the financial statements are an integral part of this statement.

PPG Industries Employee Savings Plan

Statements of Changes in Net Assets Available for Benefits For the Years Ended December 31, 2018 and 2017

(\$ in millions)	2018	2017
Additions:		
Net appreciation in fair value of investments	\$ —	\$ 551
Interest and dividend income	31	31
Interest income on notes receivable from participants	2	2
Total net investment income	33	584
Contributions:		
Employer	64	61
Employee	82	85
Total contributions	146	146
Assets transferred into PPG Industries Employee Savings Plan (Note 1)	32	30
Total additions	211	760
Deductions:		
Net depreciation in fair value of investments	233	—
Withdrawals	315	349
Administration expenses	1	1
Assets transferred out of PPG Industries Employee Savings Plan (Note 1)	—	43
Total deductions	549	393
Net (decrease)/increase	(338)	367
Net Assets Available for Benefits:		
Beginning of year	\$ 3,803	\$ 3,436
End of year	<u>\$ 3,465</u>	<u>\$ 3,803</u>

The accompanying notes to the financial statements are an integral part of this statement.

PPG Industries Employee Savings Plan
Notes to the Financial Statements
As of and for the Years Ended December 31, 2018 and 2017

1. Description of the Plan

The PPG Industries Employee Savings Plan (the "Plan") is a defined contribution plan subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA"). The plan was established in 1965 for employees residing in the United States. Eligible participants include employees of PPG Industries, Inc. (the "Company" or "PPG") and certain of its subsidiaries and collective bargaining units. The Plan was converted to an Employee Stock Ownership Plan ("ESOP") on December 1, 1988, and was amended effective January 1, 2006, to reflect that only the PPG Stock Fund is an ESOP.

The named fiduciary for the operation and administration of the Plan (the "Plan Administrator") is the PPG HR Director, Global Benefits and Mobility. The named fiduciary with respect to control and management of the assets of the Plan is the PPG Executive Committee and the PPG Benefits Investment Committee. Their responsibilities include, but are not limited to, approval of trustees, investment options, and investment managers and establishing performance benchmarks. The PPG Employee Benefits Committee also has responsibility for establishing, maintaining, and amending the Plan.

Trustee of the Plan Assets - Fidelity Management Trust Company ("FMTTC") was the trustee of the Plan assets for the years ended December 31, 2018 and 2017.

Recordkeeper of the Plan - Alight Solutions was the recordkeeper of the Plan for the years ended December 31, 2018 and 2017.

Administrative Expenses - The Plan pays all reasonable and necessary costs to manage and operate the Plan as determined by the Plan Administrator. These expenses, including recordkeeping fees, administrative charges, professional costs, and trustee costs, are paid from Plan assets. The Plan Administrator has adopted uniform and nondiscriminatory procedures to allocate these expenses to participant accounts.

Eligibility to Participate in the Plan - The Plan is available to most U.S. salaried and hourly employees of PPG and its wholly owned subsidiaries who are not covered by a collective bargaining agreement and hourly employees whose employment is covered by a collective bargaining agreement where the collective bargaining agreement provides for participation. An eligible employee may become a participant of the Plan as soon as administratively possible after enrollment.

Investment Options - Participants of the Plan are eligible to invest in money market funds, mutual funds, PPG Industries, Inc. common stock, the Stable Value Fund, and common-collective trusts.

Contributions - Contributions under the Plan are made by the participants and, for certain participants, by the Company.

Employee

The participants' maximum contribution rate for the years ended December 31, 2018 and 2017 was 50% of eligible participant compensation, up to \$18,500 and \$18,000, respectively. Participants can contribute on a before-tax basis, an after-tax basis, and on a Roth 401(k) after-tax contribution basis. Catch-up contributions, including Roth 401(k) catch-up contributions, are permitted for eligible participants (catch-up contributions are not eligible for the Company match) and were limited to \$6,000 in 2018 and 2017. Employee contributions also include rollovers from other qualified plans. The amount of individual rollovers from other plans totaled \$6 million and \$12 million in 2018 and 2017, respectively.

Employer

For most participants not covered by a collective bargaining agreement, Company-matching contributions are applied to each participant's contribution subject to a maximum of 6% of the eligible participant's compensation contributed. The Company-matching contribution was 100% during 2018 and 2017. For those participants whose employment is covered by a collective bargaining agreement, the level of Company matching contributions, if any, is determined by the relevant collective bargaining agreement.

Employer contributions also include "Employer Additional Contributions" where the Company deposits additional retirement plan monies into eligible participant accounts. These contributions are between 2% and 5% of the eligible participants' eligible Plan compensation. The applicable contribution percentage is based on a combination of the participants' age and years of service. The Employer Additional Contributions were \$19 million and \$18 million in 2018 and 2017, respectively.

Participant Accounts - Individual accounts are maintained for each Plan participant. Each participant's account is credited with the participants' contribution, the Company's matching contribution, the Employer Additional Contribution, if applicable, and allocations of fund earnings and is charged with an allocation of fund losses and administrative expenses. Allocations are based on participant account balances, as defined by the Plan. Participants direct the investment of their contributions and Company matching contributions into various investment options offered by the Plan.

Vesting - All participant contributions and Company matching contributions and their related earnings are vested immediately. The Employer Additional Contributions are generally vested over a three year service period.

Payment of Benefits - Upon termination from service as a result of a voluntary or involuntary separation, retirement, or being approved for a Company sponsored long-term disability program, a participant may elect how to receive payment of his or her account from several options, including a total distribution, a partial lump-sum distribution, or recurring payments. The benefit to which a participant is entitled is the participant's vested account balance. Participants who separate from service with a vested balance between \$1,000 and \$5,000 will have their vested account balance rolled over into an individual retirement account as soon as administratively possible unless instructions are provided by the participant. Those participants with vested balances of less than \$1,000 will receive a taxable cash distribution as soon as administratively possible unless instructions are provided by the participant. Those participants with vested balances of greater than \$5,000 may defer the distribution of their account. Those participants must begin receiving a required minimum distribution by April 1 of the year following termination from PPG, and each year thereafter. Required minimum distributions may not be rolled over to another retirement plan, IRA, or Roth IRA.

Payments to designated beneficiaries upon the death of the participant are made as a lump-sum distribution as soon as administratively possible from the date such payments are requested by the designated beneficiary or beneficiaries.

Notes Receivable from Participants - All Plan participants, excluding (a) those with a vested account balance less than \$2,000, (b) those who have two existing loans, (c) those who have defaulted on an existing loan within the past 36 months, (d) those who have paid off a loan in the past 30 calendar days, (e) those who are not receiving a paycheck, and (f) those who are suspended from making contributions due to an in-service or hardship withdrawal, may borrow, for either general purposes or for a primary residence, from their account a minimum of \$1,000, up to a maximum equal to the lesser of \$50,000 or 50% of their vested account balance, reduced by the highest outstanding participant loan balance over the past 12 months. General purpose loans have a loan term of 12 to 60 months. Primary residence loans have a loan term of 61 to 360 months. The loans are secured by the participants' account balance and are issued at an interest rate equal to the prime interest rate on the 15th of the previous month plus 1%. Principal and interest payments are generally repaid by payroll deductions. Company contributions, based on age and years of service, are not available for loans.

Transfers - Transfers in primarily occur when PPG acquires a new business and the existing plan(s) of the acquired company are legally moved into the Plan. Transfers out primarily occur when PPG divests part or all of one of its strategic business units and portions of the Plan related to the divested business are legally moved out of the Plan.

On January 5, 2018, assets valued at approximately \$32 million were transferred into the plan from another U.S. defined contribution plan through PPG's acquisition of MetoKote Corporation.

On September 1, 2017, assets valued at approximately \$43 million were transferred out of the Plan to other U.S. defined contribution plans after PPG's sale of the North American fiber glass business. Additionally, on October 1, 2017, assets valued at approximately \$30 million were transferred into the plan from other U.S. defined contribution plans through PPG's acquisition of The Crown Group.

The above brief description of the Plan is provided for general information purposes only. Participants should refer to the Summary Plan Description for a complete description of the Plan, which is available from the Plan Administrator.

2. Summary of Significant Accounting Policies and Related Matters

Basis of Accounting - The financial statements of the Plan are prepared on the accrual basis of accounting, except for amounts due to participants who had requested withdrawals, which are not recorded as a liability of the Plan as of December 31, 2018 and 2017, in accordance with the American Institute of Certified Public Accountants Audit and Accounting Guide, *Audits of Employee Benefit Plans*.

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends on the PPG Industries common stock are recorded as investment income on the ex-dividend date.

Certain prior period amounts have been reclassified to conform to the current period presentation. These reclassifications had no impact on our previously reported net assets available for benefit.

Use of Estimates - The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America (GAAP) requires Plan management to make estimates and assumptions that affect the reported amounts of assets and liabilities and changes therein. Actual results could differ from those estimates.

Benefit Payments - Benefits are recorded when paid.

Risk and Uncertainties - The Plan invests in various investment securities. Investment securities, in general, are exposed to various risks, such as interest rate risk, credit risk, and overall market volatility. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near term and that such changes could be material in relation to the amounts reported in the financial statements.

Investment Valuation - Investments are generally stated at fair value. Investments in securities traded on securities exchanges are valued at the closing sales price on the last business day of the Plan year. Listed securities for which no sale was reported on that date are valued at bid quotations. See Note 3 for further information pertaining to fair value measurement.

The Stable Value Fund is a separate account with FMTC as the investment manager, which invests in a diversified portfolio of fixed income securities, such as U.S. government obligations, mortgage-related and asset-backed securities, and corporate bonds. The Stable Value Fund is measured at contract value. See Note 4 for additional information regarding the Stable Value Fund.

Notes Receivable from Participants - Notes receivable from participants are measured at their unpaid principal balance plus any accrued but unpaid interest. Delinquent participant loans are recorded as withdrawals based on the terms of the Plan document.

3. Fair Value Measurement

Accounting guidance on fair value measurements establishes a hierarchy of inputs employed to determine fair value measurements, which has three levels.

Level 1 inputs are quoted prices in active markets for identical assets and liabilities. Level 1 inputs are considered to be the most reliable evidence of fair value as they are based on unadjusted quoted market prices from various financial information service providers and securities exchanges.

Level 2 inputs are directly or indirectly observable prices that are not quoted on active exchanges, which include quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the asset or liability and inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 inputs are unobservable inputs employed for measuring the fair value of assets or liabilities.

The availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or model-based valuation techniques may require the transfer of financial instruments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period. PPG evaluates the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets available for benefits. For the years ended December 31, 2018 and 2017, there were no transfers between levels.

The financial assets that are reported at fair value on a recurring basis as of December 31, 2018, were as follows:

(\$ in millions)	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
PPG Industries, Inc. common stock	\$ 708	\$ —	\$ —	\$ 708
Mutual funds	573	—	—	573
Money market funds	13	—	—	13
Total assets in the fair value hierarchy	\$ 1,294	\$ —	\$ —	\$ 1,294
Common-collective trusts ^(a)	—	—	—	1,489
Investments at fair value	\$ 1,294	\$ —	\$ —	\$ 2,783

^(a) Certain investments that are measured at net asset value per share (or its equivalent) are not required to be classified in the fair value hierarchy.

The financial assets that are reported at fair value on a recurring basis as of December 31, 2017, were as follows:

(\$ in millions)	Level 1	Level 2	Level 3	Total
Investments in the fair value hierarchy:				
PPG Industries, Inc. common stock	\$ 881	\$ —	\$ —	\$ 881
Mutual funds	621	—	—	621
Money market funds	9	—	—	9
Total assets in the fair value hierarchy	\$ 1,511	\$ —	\$ —	\$ 1,511
Common-collective trusts ^(a)	—	—	—	1,612
Investments at fair value	\$ 1,511	\$ —	\$ —	\$ 3,123

^(a) Certain investments that are measured at net asset value per share (or its equivalent) are not required to be classified in the fair value hierarchy.

Common-Collective Trusts

The investment in Common-Collective Trusts is comprised of investments in the BlackRock Institutional Trust Company ("BlackRock") S&P 500 Index Fund, the Mellon Capital Management Company ("Mellon") International Equity Fund, BlackRock LifePath Portfolio Funds, the Mellon Bond Index Fund and the BlackRock U.S. Treasury Inflation Protected Securities (TIPS) Index Fund. The BlackRock S&P 500 Index Fund's objective is to provide a total return that closely corresponds to the investment performance of the S&P 500 with dividends reinvested. The BlackRock S&P 500 Fund is invested in the Equity Index Fund T, which is not a mutual fund and is only available to qualified institutional investors. The Mellon International Equity Fund is a pooled separate account consisting of institutionally managed commingled pools. The Mellon International Equity Fund is invested in the Mellon EB Daily Liquidity ACWI ex-U.S. Fund and is available only to qualified institutional investors. The objective of the BlackRock LifePath Portfolio Funds is to maximize total return while maintaining an investment mix of stocks and fixed income instruments relative to a participant's retirement time frame. The Mellon Bond Index Fund's objective is to provide a total return that closely corresponds to the investment performance of the Index. The BlackRock U.S. TIPS Index Fund's objective is to provide a total return that seeks to match the investment performance of the TIPS Index. This commingled pool is not a mutual fund and is only available to qualified institutional investors. The fair value of the common-collective trust is based upon the net asset value of the underlying investments held by each of the funds. These investments are valued at their respective net asset value per share or unit on the valuation date.

4. Stable Value Fund

The objective of the Stable Value Fund is to preserve the invested principal and accumulated interest, while earning a competitive level of income over time. The Stable Value Fund is a separate account managed by FMTC. The Stable Value Fund is fully benefit-responsive and consists of synthetic guaranteed investment contracts.

The Stable Value Fund invests in a diversified portfolio of short-term bonds and other fixed income securities, such as U.S. Treasury bonds, government agency securities, corporate bonds, mortgage-backed securities, commercial mortgage-backed securities, and asset-backed securities. The Stable Value Fund also invests in money market funds to provide daily liquidity and purchases third party wrap contracts that are designed to permit the Fund to use contract value accounting to provide for the payment of participant directed withdrawals and exchanges at contract value under most circumstances. Interest is credited to the Stable Value Fund under the wrap contracts. There is no immediate recognition of gains and losses on the fixed income securities. Instead, gains or losses are recognized over time by adjusting the interest rate credited to the Stable Value Fund.

The wrap contracts have been issued by State Street Bank and Trust, J.P. Morgan Chase, Prudential Insurance Company of America, American General Life, Nationwide Life Insurance Company, and Transamerica Premier Life. The S&P credit rating at December 31, 2018 of the issuing financial institutions is AA-, A+, AA-, A+, A+ and AA-, respectively. The underlying investments of the Stable Value Fund are stated at contract value.

The third party wrap contracts provide that participant fund transactions are executed at contract value. Contract value represents contributions made to the fund, plus net investment income, less participant withdrawals. The interest crediting rates are reset quarterly based upon market rates of similar investments, the current yield of the underlying investments, and the spread between market value and contract value, but the rate cannot be less than 0%.

Certain events, such as a Plan termination or Plan merger initiated by the Plan Administrator may limit the ability of the Plan to transact at contract value or may allow for the termination of the wrap contract at less than contract value. The Plan Administrator does not believe that any events that may limit the ability of the Plan to transact at contract value are probable.

5. Related-Party Transactions

FMTC manages the Stable Value Fund. These transactions are considered exempt party-in-interest transactions. Eligible participants may borrow from their individual account balance in the Plan as discussed in Note 1, and these transactions are considered exempt party-in-interest transactions.

At December 31, 2018 and 2017, respectively, the Plan held approximately 6,924,322 and 7,551,935 shares of PPG Industries, Inc. common stock, the Plan Sponsor. These transactions are considered exempt party-in-interest transactions. Dividends earned on PPG Industries, Inc. common stock were \$13 million and \$14 million in 2018 and 2017, respectively.

6. Plan Termination

Although it has not expressed any intent to do so, the Company has the right under the Plan to terminate the Plan, subject to the provisions of ERISA. In the event the Plan is terminated, Plan participants will receive all amounts credited to their accounts.

7. Federal Income Tax Status

The Internal Revenue Service has determined and informed the Company by a letter dated April 28, 2017 that the Plan continues to be qualified and the trust established under the Plan is tax-exempt under the appropriate sections of the Internal Revenue Code. Therefore, no provision for income taxes has been included in the Plan's financial statements.

Plan management evaluates tax positions taken by the Plan and recognizes a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The plan administrator has analyzed the tax positions taken by the Plan and has concluded that as of December 31, 2018, there are no uncertain tax positions taken or expected to be taken that would require recognition of a liability (or asset) or disclosure in the financial statements.

Participants in the Plan are not liable for federal income tax on amounts allocated to their accounts resulting from their before-tax deferrals, employer contributions, or investment income until such time as a withdrawal is requested.

8. Reconciliation of Financial Statements to Form 5500

A reconciliation of net assets available for benefits per the financial statements to the total net assets per the Form 5500 as of December 31, 2018 and 2017, and the change in net assets per the financial statements to the net income per the Form 5500 for the years ended December 31, 2018 and 2017, is as follows:

<i>(\$ in millions)</i>	2018	2017
Net assets available for benefits per the financial statements	\$ 3,465	\$ 3,803
Adjustment from contract value to fair value for fully benefit-responsive investment contracts	(6)	—
Total net assets per the Form 5500	<u>\$ 3,459</u>	<u>\$ 3,803</u>
Net (decrease)/increase in net assets per the financial statements	(338)	367
Change in the adjustment from contract value to fair value for fully benefit-responsive investment contracts	(6)	(4)
Net (loss)/income per the Form 5500	<u>\$ (344)</u>	<u>\$ 363</u>

9. Subsequent Events

The Plan's management evaluated subsequent events through June 17, 2019, the date on which the financial statements were available to be issued, and no items were noted that required adjustment to the financial statements or additional disclosure.

PPG Industries Employee Savings Plan

Supplemental Schedule

Form 5500, Schedule H, Part IV, Line 4i - Schedule of Assets (Held at End of Year)

As of December 31, 2018

(\$ in millions)

	Current Value
Mutual funds — at fair value:	
Fidelity Contrafund*	\$ 184
Fidelity Growth Company Fund*	224
Vanguard Small Capitalization Index Fund	165
Investment in PPG Industries, Inc. common stock — at fair value*	708
Money market funds — at fair value:	
FMTC Institutional Cash Portfolio*	13
Common-collective trusts — at fair value:	
BlackRock Lifepath Index Retirement Fund	87
BlackRock Lifepath Index 2020 Fund	65
BlackRock Lifepath Index 2025 Fund	89
BlackRock Lifepath Index 2030 Fund	80
BlackRock Lifepath Index 2035 Fund	61
BlackRock Lifepath Index 2040 Fund	50
BlackRock Lifepath Index 2045 Fund	33
BlackRock Lifepath Index 2050 Fund	35
BlackRock Lifepath Index 2055 Fund	21
BlackRock Lifepath Index 2060 Fund	6
BlackRock Target Strategy Fund (S&P 500 Index)	485
BlackRock TIPS Index Fund	49
Mellon EB Daily Liquidity Bond Index Fund	195
Mellon EB Daily Liquidity ACWI ex-U.S. Fund	233
Stable value fund - at market value:	
Cash & Cash equivalents	9
FMTC Institutional Cash Portfolio*	15
Total Cash & Cash Equivalents	24
U.S. Government Obligations - at market value:	
New York State Urban Development Corporation 2.67% 3/15/23	1
New York State Urban Development Corporation 2.7% 03/15/23	1
US Treasury Note 1.375% 08/31/23	17
US Treasury Note 1.875% 07/31/22	46
US Treasury Note 1.625% 08/31/22	4
US Treasury Note 1.75% 12/31/20	31
US Treasury Note 1.75% 11/30/21	32
US Treasury Note 1.875% 03/31/22	53
Total U.S. Government Obligations	185
Corporate Debt - at market value:	
AON PLC 2.8% 03/15/21	1

ABBVIE INC 2.5% 05/14/20	1
AMERICAN EXPRESS CREDIT C 2.25% 5/5/21	1
AMERICAN HONDA FINANCE CO 2.65% 2/12/21	1
AMERICAN HONDA FINANCE CO 1.7% 9/9/21	1
AMGEN INC 2.125% 5/1/20	1
ANHUESER-BUSCH INBEV FIN 2.65% 2/1/21	1
ANHUESER-BUSCH INBEV FIN 3.3% 2/1/23	2
ANTHEM INC 2.95% 12/1/22	1
APPLE INC 2.85% 5/6/2021	1
AUSTRALIA & NZ BKG GRP NY 2.125% 8/19/20	1
AUSTRALIA & NZ BKG GRP NY 2.25% 6/13/19	1
BAT INTL FINANCE PLC 2.75% 6/15/20	1
BAT INTL FINANCE PLC 3.5% 6/15/22	1
BMW US CAPITAL LLC 2.7% 4/6/22	1
BP CAPITAL MARKETS PLC 2.315% 2/13/20	1
BPCE SA MEDIUM TERM NTS B 2.5% 7/15/19	2
BANK AMER FDG CORP 2.25% 4/21/20	1
BANK OF AMERICA 3.004%/VAR 12/20/23	1
BANK OF AMERICA CORP 3.864% 7/23/24	2
BANK NOVA SCOTIA BC 2.8% 7/21/21	1
BANK OF NOVA SCOTIA 2.7% 3/7/22	1
BANK TOKYO-MITSUBISHI UFJ 2.3% 3/5/20	1
BANK TOKYO-MITSUBISHI UFJ 2.35% 9/8/19	1
BANK OF THE WEST AUTO TR	1
BARCLAYS PLC (UNGTD) 2.75% 11/8/19	1
BARCLAYS BANK PLC 2.65% 1/11/21	3
BERKSHIRE HATHAWAY ENERGY 2.8% 1/15/23	1
BERKSHIRE HATHAWAY INC DE 2.75% 3/15/23	1
CANADIAN IMPERIAL BK OF C 2.55% 6/16/22	1
CAPITAL ONE BK 2.25% 2/13/19	2
CATERPILLAR FINL SVCS COR 2.1% 1/10/20	1
CHEVRON PHIL CHEM LLC /CH 2.45% 5/1/20	1
CHEVRON PHIL CHEM LLC /CH 3.3% 5/1/23	1
CISCO SYS INC 2.125% 3/1/19	2
CISCO SYS INC 1.85% 09/20/21	1
CITIGROUP INC 2.55% 4/8/19	5
CITIGROUP INC 2.5% 7/29/19	1
CITIZENS BK MTN 2.45% 12/4/19	2
CITIZENS BANK NA 2.55% 5/13/21	2
CITIZENS BANK NA 2.65% 5/26/22	1
COMCAST CORP NEW 1.625% 1/15/22	2
COMCAST CORP NEW 3.7% 4/15/24	1
COMCAST CORP 3.95% 10/15/25	1
COMERICA INC 2.125% 5/23/19	1
COMMONWEALTH BK ASTL NYB 2.3% 3/12/20	1
CONSOLIDATED EDISON INC 2% 5/15/21	1

CREDIT SUISSE MTN BE 2.3% 5/28/19	1
CREDIT SUISSE MTN BE 3.0% 10/29/21	1
DAIMLER FIN NORTH AMER LL 2.25% 9/3/19	2
DAIMLER FIN NORTH AMER LL 2.25% 3/2/20	1
DAIMLER FIN NORTH AMER LL 1.5% 7/5/19	2
DAIMLER FIN NORTH AMER LL 2.85% 1/6/22	1
DEERE JOHN CAPITAL CORP M 2.55% 1/8/21	1
DEUTSCHE BANK AG 2.5% 2/13/19	2
DISNEY (WALT)MTN 2.35% 12/1/22	1
DUKE ENERGY CORP(CAROLINA 3.05% 3/15/23	1
ERP OPERATING LP 3.375% 6/1/25	1
EVERSOURCE ENERGY 2.5% 3/15/21	1
EVERSOURCE ENERGY 2.75% 3/15/22	1
EXXON MOBIL CORP 2.726% 3/1/23	1
EXXON MOBIL CORP 2.222% 3/1/21	1
FIFTH THIRD BK MT SR BK N 2.875% 10/1/21	1
GE CAP INTL FDG CO 2.342% 11/15/20	1
GEN ELECTRIC CO 3.375% 3/11/24	1
GLAXOSMITHKLINE CAP PLC 3.125% 5/14/21	1
GSINC 5.25% 7/27/21	1
GOLDMAN SACHS GROUP INC 2.75% 9/15/20	2
GOLDMAN SACHS GROUP INC 3.2% 2/23/23	1
GOLDMAN SACHS GROUP INC 2.55% 10/23/19	1
GOLDMAN SACHS BANK USA 3.2% 6/5/20	1
GOLDMAN SACHS GROUP INC 2.876% 10/31/22	1
GUARDIAN LIFE GLOBAL FUND 3.4% 4/25/23	1
HSBC HLDGS PLC 3.262%/VAR 3/13/23	1
HSBC HLDGS PLC 3.95%/VAR 5/18/24	1
HSBC USA INC NEW 2.25% 6/23/19	1
HALFMOON PARENT INC 3.4% 9/17/21	1
HALFMOON PARENT INC 3.75% 7/15/23	1
HUNTINGTON NATL BK OHIO C 2.5% 8/7/22	1
HUNTINGTON NATL BK COLUMB 3.25% 5/14/21	1
HYUNDAI CAPITAL AMERICA 2.6% 3/19/20	2
HYUNDAI CAP AMER 1.75% 9/27/19	1
INTERCONTINENTAL EXCHANGE 3.45% 9/21/23	1
INTERCONTINENTAL EXCHANGE 2.75% 12/1/20	1
ITC HLDGS CORP 2.7% 11/15/22	1
JPMORGAN CHASE & CO 2.75% 6/23/20	2
JPMORGAN CHASE & CO 2.55% 10/29/20	1
JPMORGAN CHASE & CO 3.559% 4/23/24	1
JPMORGAN CHASE & CO 3.514% 6/18/22	1
JPMORGAN CHASE & CO 4.023%/VAR 12/5/24	2
JAPAN BANK INTL COOPERATI 1.5% 7/21/21	1
KEYBANK NATL ASSN CLVLD M 2.5% 12/15/19	1
KEYBANK NATL ASSN CLVLD M 2.25% 3/16/20	1

MFRS & TRADERS TR CO BK N 2.5% 5/18/22	1
MANUFACTURERS & TRADERS T 2.1% 2/6/20	1
MARSH & MCLENNAN COS INC 2.35% 3/6/20	1
MARSH & MCLENNAN COS INC 2.75% 1/30/22	1
MASSMUTUAL GLBL FD II MTN 2.45% 11/23/20	1
MASSMUTUAL GLBL FD II MTN 2.35% 4/9/19	1
MET LIFE GLOB FUNDING I 2.65% 4/8/22	1
MITSUBISHI UFJ FIN GRP IN 2.95% 3/1/21	1
MITSUBISHI UFJ FIN GRP IN 2.998% 2/22/22	1
MITSUBISHI UFJ FIN GRP IN 3.455% 3/2/23	1
MITSUBISHI UFJ TR & BK CO 2.45% 10/16/19	1
MIZUHO FINL 2.273% 9/13/21	1
MIZUHO BANK LTD 2.45% 4/16/19	2
MORGAN STANLEY 2.75% 5/19/22	1
MORGAN STANLEY 3.125% 1/23/23	1
MORGAN STANLEY 3.737%/VAR 4/24/24	1
MORGAN STANLEY 2.5% 1/24/19	3
MORGAN STANLEY 2.375% 7/23/19	1
MORGAN STANLEY 2.5% 4/21/21	1
MORGAN STANLEY 2.625% 11/17/21	1
MORGAN STANLEY 2.65% 1/27/20	1
NEW YORK LIFE GLB FD MTN 1.95% 2/11/20	2
NEW YORK LIFE GLB FD MTN 1.7% 9/14/21	2
NEW YORK LIFE GLB FD MTN 2.3% 6/10/22	1
ONTARIO PROV 4% 10/7/19	4
ONTARIO PROVINCE CDA 2.4% 2/8/22	1
PECO ENERGY COMPANY 1.7% 9/15/21	1
PNC BK N A PITTSBURGH PA 2.4% 10/18/19	1
PEPSICO INC 1.7% 10/6/21	1
PHILIP MORS INT 1.875% 1/15/19	1
PHILIP MORRIS INTL INC 1.875% 2/25/21	2
PRICOA GLOBAL FDG I MTN 2.45% 9/21/22	1
PRINCIPAL LIFE GLB FDG II 2.375% 9/11/19	1
PRINCIPAL LIFE GLB FDG II 2.2% 4/8/20	1
PROTECTIVE LIFE GLOBAL FD 2.161% 9/25/20	1
PROTECTIVE LIFE GLOBAL FD 2.615% 8/22/22	1
QUEBEC PROVINCE CDA 2.375% 1/31/22	2
REGIONS BANK OF ALABAMA 2.75% 4/1/21	1
ROYAL BK CDA GLB MTN SR N 2.35% 10/30/20	1
ROYAL BK CDA GLB MTN SR N 3.2% 4/30/21	1
ROYAL BANK OF CANADA 3.7% 10/5/23	1
SSM HEALTH CARE CORP 3.688% 6/1/23	1
SHELL INTL FIN B V 2.125% 5/11/20	1
SHELL INTL FIN B V 2.25% 11/10/20	1
SIMON PROPERTY GROUP LP 2.625% 6/15/22	1
SIMON PROPERTY GROUP LP 2.75% 6/1/23	1

SUMITOMO MITSUI BKG CORP 2.25% 7/11/19	1
SUMITOMO MITSUI BKG CORP 2.45% 1/16/20	1
SUMITOMO MITSUI FINL GRP 2.934% 3/9/21	1
SUNTR BANK ATLNTA GA MTN 3.502%/VAR 8/2/22	1
TJX COMPANIES INC 2.75% 6/15/21	1
TORONTO DOMINION SR MTN B 2.25% 11/5/19	1
TOTAL CAP INTL 2.75% 6/19/21	1
TOYOTA MOTOR CREDIT CORP 2.6% 1/11/22	2
TRANSCANADA PIP 2.5% 8/1/22	1
TRANSCANADA PIP 3.125% 1/15/19	1
TRANSCANADA PIPELINES LTD 2.125% 11/15/19	1
UBS AG STAM 2.375% 8/14/19	1
UBS AG LON BRANCH 2.45% 12/1/20	1
USAA CAPITAL CORP 2% 6/1/21	1
UNITEDHEALTH GROUP INC 2.875% 12/15/21	1
VISA INC 2.8% 12/14/22	1
VOLKSWAGEN GROUP AMER FIN 2.125% 5/23/19	1
VOLKSWAGEN GROUP AMER FIN 2.4% 5/22/20	1
WELLPOINT INC 2.25% 8/15/19	1
WELLS FARGO & CO NEW 2.1% 7/26/21	1
WELLS FARGO CO NEW MTN SR 3.55% 8/14/23	1
WELLS FARGO & CO MTN 2.6% 7/22/20	1
WELLS FARGO BK NATL ASSN 3% 1/22/21	1
WESTPAC BANKING CORP 1.6% 8/19/19	1
WESTPAC BANKING CORP 2.8% 1/11/22	1
WESTPAC BANKING CORP 2.15% 3/6/20	1
WISCONSIN ENERGY CORP 2.45% 6/15/20	1
Total Corporate Debt	198
Mortgage Backed Securities - at market value:	
AMOT 2.04% 6/15/22	1
AMOT 2.70% 1/17/23	1
AMOT 3.29% 5/15/23	2
AMXCA 1.93% 9/15/22	1
AMXCA 1.77% 11/15/22	1
AMXCA 2.99% 12/15/23	1
AMXCA 3.06% 2/15/24	1
AMXCA 3.30% 2/2/23	2
BACCT 1.95% 8/15/22	2
BACCT 1.84% 1/17/23	1
BACCT 2.70% 9/15/23	2
BACCT 3.00% 4/21/20	1
BMWFT 3.15% 5/15/23	1
BMWLT 2.07% 10/20/20	1
BMWLT 3.26% 7/20/21	1
BMARK 3.66% 2/15/21	1
BMARK 4.34% 5/15/53	1

BMARK 4.18% 1/15/52	1
COMM 3.257% 5/10/48	1
CSAIL 17-CX9 A2 3.05% 9/15/50	1
COMM 2012-LC4 A4 3.29% 12/10/44	1
COMM 2010-C1 A3 4.21% 7/10/46	2
COMM 2012-CR2 A3 2.84% 8/15/45	2
COMM 2012-CR3 ASB 2.37% 10/15/45	1
COMM 2012-CR3 A3 2.82% 10/15/45	1
COMM 2013-CR6 A4 3.10% 3/10/46	1
COMM 2013-CR7 A4 3.21% 3/10/46	1
COMM 2014-CR18 A2 2.92% 7/15/47	1
CNH 2018-A A3 3.12% 7/17/23	1
CPART 2018-1A A3 3.00% 11/19/21	1
CPART 17-1A A3 2.05% 3/19/21	1
CPART 18-2A A3 3.27% 12/19/22	1
COMET 2015-A8 A8 2.05% 8/15/23	1
COMET 2016-A3 A3 1.34% 4/15/22	1
COMET 2016-A4 A4 1.33% 6/15/22	1
COMET 2017-A1 A1 2.0% 1/17/23	1
COMET 2017-A\$ A4 1.99% 7/17/23	2
COMET 2018-A1 3.01% 2/15/24	1
CARMX 16-4 A3 1.40% 8/15/21	1
CARMX 2017-4 A3 2.11% 10/17/22	1
CARMX 2017-3 A3 1.97% 4/15/22	1
CARMX 2018-2 A3 2.98% 1/17/23	1
CARMX 2018-4 A3 3.36% 9/15/23	1
CHAIT 2016-A2 A 1.37% 6/15/21	2
CHAIT 2016-A5 A5 1.27% 7/15/21	1
CCCIT 2016-A1 A1 1.75% 11/19/21	2
CCCIT 2017-A3 1.92% 4/7/22	1
CCCIT 2017-A8 A8 1.86% 8/8/22	1
CCCIT 2017-A9 A9 1.80% 9/20/21	1
CCCIT 2018-A1 A1 2.49% 1/20/23	1
CGCMT 2012-GC8 A4 3.02% 9/10/45	1
CGCMT 13-GC17 A4 4.13% 11/10/46	1
CGCMT 2014-GC23 A3 3.36% 7/10/47	1
CGCMT 16-GC36 AAB 3.37% 2/10/49	1
CGCMT 2017-P7 A2 3.21% 4/15/50	1
DBUBS 2011-LC2A A4 4.54% 7/10/44	1
DEFT 2018-2 A3 3.37% 10/22/23	1
DCENT 2015-A2 A 1.90% 10/17/22	1
DCENT 2016-A3 A3 1.85% 10/16/23	1
DCENT 2016-A4 A4 1.39% 3/15/22	1
DCENT 2017-A6 A6 1.88% 2/15/23	1
DCENT 2018-A5 A5 3.32% 3/15/24	2
FHLG 15 YR 3.50% 8/1/26	1

FHLG 15 YR 2.50% 10/1/31	1
FHLG 20YR 3.50% 6/1/32	1
FHLG 15YR 3.00% 5/1/29	2
FHLG 5.50% 5/1/34	1
FHLG 20YR 3.00% 11/1/33	1
FHLG 20YR 3.50% 7/1/32	1
FNR 2013-16 GP 3.00% 3/25/33	1
FNR 2014-83 P 3.00% 6/25/43	1
FNR 2015-49 LE 3.00% 7/25/45	1
FNR 2015-32 PA 3.00% 4/25/44	1
FNR 2015-28 P 2.50% 5/25/45	2
FNR 2015-28 JE 3.00% 5/25/45	1
FNR 2015-42 LE 3.00% 6/25/45	1
FNR 2015-54 GA 2.50% 7/25/45	1
FNR 2016-26 CG 3.00% 5/25/46	2
FNR 2016-19 AH 3.00% 4/25/46	1
FNR 2016-27 HK 3.00% 1/25/41	1
FNR 2016-27 KG 3.00% 1/25/40	1
FNR 2016-37 BK 3.00% 6/25/46	3
FNR 2016-34 GH 3.00% 6/25/46	2
FNR 2016-105 PA 3.50% 4/25/45	1
FNR 2016-100 P 3.50% 11/25/44	2
FNR 2017-20 AP 3.50% 3/25/45	2
FNR 2017-11 HA 3.50% 12/25/45	2
FNR 2017-74 PA 3.50% 11/25/45	2
FNR 2017-97 P 3.00% 1/25/47	1
FNR 2018-3 LP 3.00% 2/25/47	4
FNR 2018-44 PA 3.50% 6/25/44	8
FNR 2018-16 NB 3.25% 12/25/44	1
FNR 2018-11 LA 3.50% 7/25/45	2
FNR 2018-88 BA 4.00% 11/25/43	3
FNMA 5.50% 11/1/34	1
FHMS K035 A2 3.46% 8/25/23	1
FHR 2015-4472 WL 3.00% 5/15/45	1
FHR 4656 PA 3.50% 10/15/45	1
FHR 4683 EA 2.50% 5/15/47	2
FHR 2018-4766 MA 3.50% 2/15/46	3
FHR 2018-4765 QA 3.00% 2/15/46	3
FHR 4847 CA 3.50% 11/15/45	2
FNMA 15 YR 3.50% 3/1/27	1
FNMA 15 YR 3.5% 9/1/29	1
FNMA 15YR 3.00% 7/1/30	3
FNR 2011-26 PA 4.50% 4/25/41	1
FNMA 3.50% 7/1/32	2
FNMA 15YR 4.00% 8/1/27	2
FNMA 10YR 2.00% 8/1/23	1

FITAT 2017-1 A3 1.80% 2/15/22	1
FORDO 2018-A A3 3.03% 11/15/22	1
FORDF 2016-1 A1 1.76% 2/15/21	1
FORDF 2017-1 A1 2.07% 5/15/22	1
FORDF 2017-2 2.16% 9/15/22	1
FORDF 2018-1 2.95% 5/15/23	2
FORDR 14-1 A 2.26% 11/15/25	1
FORDR 2014-2 A 2.31% 4/15/26	1
FORDR 2015-1 A 2.12% 7/15/26	1
FORD CRD 16-1 A 2.31% 8/15/27	2
FORDO 2016-C A3 1.22% 3/15/23	1
FORDO 2017-A A3 1.67% 6/15/21	1
GFORT 2015 -1 A1 1.96% 5/17/21	1
GFORT 2017-1 A1 2.22% 1/18/22	1
GFORT 2018-2 A1 3.13% 3/15/23	1
GSMS 2012-GC6 A3 3.48% 1/10/45	1
GSMS 2013-GC10 A5 2.94% 2/10/46	1
GSMS 2012-GCJ9 A3 2.77% 11/10/45	1
GSMC 14-GC26 AAB 3.37% 11/10/47	1
GSMS 2015-GC28 AAB 3.21% 2/10/48	1
GMALT 2018-2 A3 3.06% 6/21/21	1
GMCAR 2018-1A A3 2.39% 7/18/22	1
HAROT 2016-4 A3 1.21% 12/18/20	1
HAROT 2017-1 A3 1.72% 7/21/21	1
HART 2016-B A3 1.29% 4/15/21	1
HART 2018-A A3 2.79% 7/15/22	1
HFMOT 2016-1A A2 1.81% 3/15/21	1
JPMCC 2015-JP1 A2 3.14% 1/15/49	1
JPMCC 2012-C8 A3 2.83% 10/15/45	1
JPMCC 13-C10 A5 3.14% 1/15/49	1
JPMBB 14-C22 ASB 3.50% 9/15/47	1
JPMCC 16-JP4 A2 2.93% 12/15/49	1
KCOT 2018-1A A3 3.10% 8/15/22	2
MSBAM 2013-C7 A4 2.92% 2/15/46	1
MSC 2011-C2 A4 4.67% 6/15/44	1
MSBAM 2013-C8 A4 3.13% 12/15/48	1
MSBAM 13-C13 ASB 3.56 11/15/46	1
MSBAM 2014-C16 ASB 3.47% 6/15/47	1
MSBAM 2014-C17 ASB 3.47% 8/15/47	1
NAROT 2017-A A3 1.74% 8/16/21	1
NMOTR 2016-A A2 1.54% 6/15/21	1
SRT 2017-A A3 2.22% 1/20/21	1
SRT 2018-A A3 2.93% 5/20/21	1
SSTRT 17-2A A3 2.04% 4/26/21	1
SSTRT 2018-2A A3 3.33% 8/25/22	2
SSTRT 17-1A A3 1.89% 8/25/20	1

TAOT 2018-B A3 2.96% 9/15/22	1
UBSBB 2012-C2 A4 3.53% 5/10/63	1
VZOT 16-1A A 1.42% 1/20/21	1
VZOT 17-2A A 1.92% 12/20/21	1
VZOT 2017-3A A1A 2.06% 4/20/22	1
VZOT 2018-A A1A 3.23% 4/20/23	2
VALET 2018-1 A3 3.02% 11/21/22	1
WFRBS 2014-C22 ASB 3.46% 9/15/57	1
WFRBS 2013-C14 A5 3.34% 6/15/46	1
WFRBS 2012-C9 A3 2.87% 11/15/45	1
WFRBS 2011-C3 A4 4.38% 3/15/44	1
WFRBS 2012-C7 A2 3.43% 6/15/45	1
WFRBS 2013-C11 A5 3.07% 3/15/45	2
WFRBS 2013-C16 A5 4.42% 9/15/46	1
WFCM 2015-C27 ASB 3.28% 2/15/48	1
WFCM 2016-C34 A2 2.60% 6/15/49	1
WFCM 2016-C37 A2 3.10% 12/15/49	1
WOART 16-B A3 1.30% 2/15/22	1
Total Mortgage Backed Securities	222
Total Stable Value Fund at market value	629
Employer contribution receivable	3
Employee contribution receivable	2
Loans to participants with interest rates ranging from 4.25% to 11.0% and maturity dates through November 2048*	42
Total	<u>\$ 3,459</u>

* Party-in-interest

PPG Industries Employee Savings Plan

Supplemental Schedule

Form 5500, Schedule H, Part IV, Line 4i - Schedule of Assets (Held at End of Year)

As of December 31, 2018

(\$ in millions)

	Current Value
Mutual funds — at fair value:	
Fidelity Contrafund*	\$ 184
Fidelity Growth Company Fund*	224
Vanguard Small Capitalization Index Fund	165
Investment in PPG Industries, Inc. common stock — at fair value*	708
Money market funds — at fair value:	
FMTC Institutional Cash Portfolio*	13
Common-collective trusts — at fair value:	
BlackRock Lifepath Index Retirement Fund	87
BlackRock Lifepath Index 2020 Fund	65
BlackRock Lifepath Index 2025 Fund	89
BlackRock Lifepath Index 2030 Fund	80
BlackRock Lifepath Index 2035 Fund	61
BlackRock Lifepath Index 2040 Fund	50
BlackRock Lifepath Index 2045 Fund	33
BlackRock Lifepath Index 2050 Fund	35
BlackRock Lifepath Index 2055 Fund	21
BlackRock Lifepath Index 2060 Fund	6
BlackRock Target Strategy Fund (S&P 500 Index)	485
BlackRock TIPS Index Fund	49
Mellon EB Daily Liquidity Bond Index Fund	195
Mellon EB Daily Liquidity ACWI ex-U.S. Fund	233
Stable value fund - at market value:	
Cash & Cash equivalents	9
FMTC Institutional Cash Portfolio*	15
Total Cash & Cash Equivalents	24
U.S. Government Obligations - at market value:	
New York State Urban Development Corporation 2.67% 3/15/23	1
New York State Urban Development Corporation 2.7% 03/15/23	1
US Treasury Note 1.375% 08/31/23	17
US Treasury Note 1.875% 07/31/22	46
US Treasury Note 1.625% 08/31/22	4
US Treasury Note 1.75% 12/31/20	31
US Treasury Note 1.75% 11/30/21	32
US Treasury Note 1.875% 03/31/22	53
Total U.S. Government Obligations	185
Corporate Debt - at market value:	
AON PLC 2.8% 03/15/21	1

ABBVIE INC 2.5% 05/14/20	1
AMERICAN EXPRESS CREDIT C 2.25% 5/5/21	1
AMERICAN HONDA FINANCE CO 2.65% 2/12/21	1
AMERICAN HONDA FINANCE CO 1.7% 9/9/21	1
AMGEN INC 2.125% 5/1/20	1
ANHUESER-BUSCH INBEV FIN 2.65% 2/1/21	1
ANHUESER-BUSCH INBEV FIN 3.3% 2/1/23	2
ANTHEM INC 2.95% 12/1/22	1
APPLE INC 2.85% 5/6/2021	1
AUSTRALIA & NZ BKG GRP NY 2.125% 8/19/20	1
AUSTRALIA & NZ BKG GRP NY 2.25% 6/13/19	1
BAT INTL FINANCE PLC 2.75% 6/15/20	1
BAT INTL FINANCE PLC 3.5% 6/15/22	1
BMW US CAPITAL LLC 2.7% 4/6/22	1
BP CAPITAL MARKETS PLC 2.315% 2/13/20	1
BPCE SA MEDIUM TERM NTS B 2.5% 7/15/19	2
BANK AMER FDG CORP 2.25% 4/21/20	1
BANK OF AMERICA 3.004%/VAR 12/20/23	1
BANK OF AMERICA CORP 3.864% 7/23/24	2
BANK NOVA SCOTIA BC 2.8% 7/21/21	1
BANK OF NOVA SCOTIA 2.7% 3/7/22	1
BANK TOKYO-MITSUBISHI UFJ 2.3% 3/5/20	1
BANK TOKYO-MITSUBISHI UFJ 2.35% 9/8/19	1
BANK OF THE WEST AUTO TR	1
BARCLAYS PLC (UNGTD) 2.75% 11/8/19	1
BARCLAYS BANK PLC 2.65% 1/11/21	3
BERKSHIRE HATHAWAY ENERGY 2.8% 1/15/23	1
BERKSHIRE HATHAWAY INC DE 2.75% 3/15/23	1
CANADIAN IMPERIAL BK OF C 2.55% 6/16/22	1
CAPITAL ONE BK 2.25% 2/13/19	2
CATERPILLAR FINL SVCS COR 2.1% 1/10/20	1
CHEVRON PHIL CHEM LLC /CH 2.45% 5/1/20	1
CHEVRON PHIL CHEM LLC /CH 3.3% 5/1/23	1
CISCO SYS INC 2.125% 3/1/19	2
CISCO SYS INC 1.85% 09/20/21	1
CITIGROUP INC 2.55% 4/8/19	5
CITIGROUP INC 2.5% 7/29/19	1
CITIZENS BK MTN 2.45% 12/4/19	2
CITIZENS BANK NA 2.55% 5/13/21	2
CITIZENS BANK NA 2.65% 5/26/22	1
COMCAST CORP NEW 1.625% 1/15/22	2
COMCAST CORP NEW 3.7% 4/15/24	1
COMCAST CORP 3.95% 10/15/25	1
COMERICA INC 2.125% 5/23/19	1
COMMONWEALTH BK ASTL NYB 2.3% 3/12/20	1
CONSOLIDATED EDISON INC 2% 5/15/21	1

CREDIT SUISSE MTN BE 2.3% 5/28/19	1
CREDIT SUISSE MTN BE 3.0% 10/29/21	1
DAIMLER FIN NORTH AMER LL 2.25% 9/3/19	2
DAIMLER FIN NORTH AMER LL 2.25% 3/2/20	1
DAIMLER FIN NORTH AMER LL 1.5% 7/5/19	2
DAIMLER FIN NORTH AMER LL 2.85% 1/6/22	1
DEERE JOHN CAPITAL CORP M 2.55% 1/8/21	1
DEUTSCHE BANK AG 2.5% 2/13/19	2
DISNEY (WALT)MTN 2.35% 12/1/22	1
DUKE ENERGY CORP(CAROLINA 3.05% 3/15/23	1
ERP OPERATING LP 3.375% 6/1/25	1
EVERSOURCE ENERGY 2.5% 3/15/21	1
EVERSOURCE ENERGY 2.75% 3/15/22	1
EXXON MOBIL CORP 2.726% 3/1/23	1
EXXON MOBIL CORP 2.222% 3/1/21	1
FIFTH THIRD BK MT SR BK N 2.875% 10/1/21	1
GE CAP INTL FDG CO 2.342% 11/15/20	1
GEN ELECTRIC CO 3.375% 3/11/24	1
GLAXOSMITHKLINE CAP PLC 3.125% 5/14/21	1
GSINC 5.25% 7/27/21	1
GOLDMAN SACHS GROUP INC 2.75% 9/15/20	2
GOLDMAN SACHS GROUP INC 3.2% 2/23/23	1
GOLDMAN SACHS GROUP INC 2.55% 10/23/19	1
GOLDMAN SACHS BANK USA 3.2% 6/5/20	1
GOLDMAN SACHS GROUP INC 2.876% 10/31/22	1
GUARDIAN LIFE GLOBAL FUND 3.4% 4/25/23	1
HSBC HLDGS PLC 3.262%/VAR 3/13/23	1
HSBC HLDGS PLC 3.95%/VAR 5/18/24	1
HSBC USA INC NEW 2.25% 6/23/19	1
HALFMOON PARENT INC 3.4% 9/17/21	1
HALFMOON PARENT INC 3.75% 7/15/23	1
HUNTINGTON NATL BK OHIO C 2.5% 8/7/22	1
HUNTINGTON NATL BK COLUMB 3.25% 5/14/21	1
HYUNDAI CAPITAL AMERICA 2.6% 3/19/20	2
HYUNDAI CAP AMER 1.75% 9/27/19	1
INTERCONTINENTAL EXCHANGE 3.45% 9/21/23	1
INTERCONTINENTAL EXCHANGE 2.75% 12/1/20	1
ITC HLDGS CORP 2.7% 11/15/22	1
JPMORGAN CHASE & CO 2.75% 6/23/20	2
JPMORGAN CHASE & CO 2.55% 10/29/20	1
JPMORGAN CHASE & CO 3.559% 4/23/24	1
JPMORGAN CHASE & CO 3.514% 6/18/22	1
JPMORGAN CHASE & CO 4.023%/VAR 12/5/24	2
JAPAN BANK INTL COOPERATI 1.5% 7/21/21	1
KEYBANK NATL ASSN CLVLD M 2.5% 12/15/19	1
KEYBANK NATL ASSN CLVLD M 2.25% 3/16/20	1

MFRS & TRADERS TR CO BK N 2.5% 5/18/22	1
MANUFACTURERS & TRADERS T 2.1% 2/6/20	1
MARSH & MCLENNAN COS INC 2.35% 3/6/20	1
MARSH & MCLENNAN COS INC 2.75% 1/30/22	1
MASSMUTUAL GLBL FD II MTN 2.45% 11/23/20	1
MASSMUTUAL GLBL FD II MTN 2.35% 4/9/19	1
MET LIFE GLOB FUNDING I 2.65% 4/8/22	1
MITSUBISHI UFJ FIN GRP IN 2.95% 3/1/21	1
MITSUBISHI UFJ FIN GRP IN 2.998% 2/22/22	1
MITSUBISHI UFJ FIN GRP IN 3.455% 3/2/23	1
MITSUBISHI UFJ TR & BK CO 2.45% 10/16/19	1
MIZUHO FINL 2.273% 9/13/21	1
MIZUHO BANK LTD 2.45% 4/16/19	2
MORGAN STANLEY 2.75% 5/19/22	1
MORGAN STANLEY 3.125% 1/23/23	1
MORGAN STANLEY 3.737%/VAR 4/24/24	1
MORGAN STANLEY 2.5% 1/24/19	3
MORGAN STANLEY 2.375% 7/23/19	1
MORGAN STANLEY 2.5% 4/21/21	1
MORGAN STANLEY 2.625% 11/17/21	1
MORGAN STANLEY 2.65% 1/27/20	1
NEW YORK LIFE GLB FD MTN 1.95% 2/11/20	2
NEW YORK LIFE GLB FD MTN 1.7% 9/14/21	2
NEW YORK LIFE GLB FD MTN 2.3% 6/10/22	1
ONTARIO PROV 4% 10/7/19	4
ONTARIO PROVINCE CDA 2.4% 2/8/22	1
PECO ENERGY COMPANY 1.7% 9/15/21	1
PNC BK N A PITTSBURGH PA 2.4% 10/18/19	1
PEPSICO INC 1.7% 10/6/21	1
PHILIP MORS INT 1.875% 1/15/19	1
PHILIP MORRIS INTL INC 1.875% 2/25/21	2
PRICOA GLOBAL FDG I MTN 2.45% 9/21/22	1
PRINCIPAL LIFE GLB FDG II 2.375% 9/11/19	1
PRINCIPAL LIFE GLB FDG II 2.2% 4/8/20	1
PROTECTIVE LIFE GLOBAL FD 2.161% 9/25/20	1
PROTECTIVE LIFE GLOBAL FD 2.615% 8/22/22	1
QUEBEC PROVINCE CDA 2.375% 1/31/22	2
REGIONS BANK OF ALABAMA 2.75% 4/1/21	1
ROYAL BK CDA GLB MTN SR N 2.35% 10/30/20	1
ROYAL BK CDA GLB MTN SR N 3.2% 4/30/21	1
ROYAL BANK OF CANADA 3.7% 10/5/23	1
SSM HEALTH CARE CORP 3.688% 6/1/23	1
SHELL INTL FIN B V 2.125% 5/11/20	1
SHELL INTL FIN B V 2.25% 11/10/20	1
SIMON PROPERTY GROUP LP 2.625% 6/15/22	1
SIMON PROPERTY GROUP LP 2.75% 6/1/23	1

SUMITOMO MITSUI BKG CORP 2.25% 7/11/19	1
SUMITOMO MITSUI BKG CORP 2.45% 1/16/20	1
SUMITOMO MITSUI FINL GRP 2.934% 3/9/21	1
SUNTR BANK ATLNTA GA MTN 3.502%/VAR 8/2/22	1
TJX COMPANIES INC 2.75% 6/15/21	1
TORONTO DOMINION SR MTN B 2.25% 11/5/19	1
TOTAL CAP INTL 2.75% 6/19/21	1
TOYOTA MOTOR CREDIT CORP 2.6% 1/11/22	2
TRANSCANADA PIP 2.5% 8/1/22	1
TRANSCANADA PIP 3.125% 1/15/19	1
TRANSCANADA PIPELINES LTD 2.125% 11/15/19	1
UBS AG STAM 2.375% 8/14/19	1
UBS AG LON BRANCH 2.45% 12/1/20	1
USAA CAPITAL CORP 2% 6/1/21	1
UNITEDHEALTH GROUP INC 2.875% 12/15/21	1
VISA INC 2.8% 12/14/22	1
VOLKSWAGEN GROUP AMER FIN 2.125% 5/23/19	1
VOLKSWAGEN GROUP AMER FIN 2.4% 5/22/20	1
WELLPOINT INC 2.25% 8/15/19	1
WELLS FARGO & CO NEW 2.1% 7/26/21	1
WELLS FARGO CO NEW MTN SR 3.55% 8/14/23	1
WELLS FARGO & CO MTN 2.6% 7/22/20	1
WELLS FARGO BK NATL ASSN 3% 1/22/21	1
WESTPAC BANKING CORP 1.6% 8/19/19	1
WESTPAC BANKING CORP 2.8% 1/11/22	1
WESTPAC BANKING CORP 2.15% 3/6/20	1
WISCONSIN ENERGY CORP 2.45% 6/15/20	1
Total Corporate Debt	198
Mortgage Backed Securities - at market value:	
AMOT 2.04% 6/15/22	1
AMOT 2.70% 1/17/23	1
AMOT 3.29% 5/15/23	2
AMXCA 1.93% 9/15/22	1
AMXCA 1.77% 11/15/22	1
AMXCA 2.99% 12/15/23	1
AMXCA 3.06% 2/15/24	1
AMXCA 3.30% 2/2/23	2
BACCT 1.95% 8/15/22	2
BACCT 1.84% 1/17/23	1
BACCT 2.70% 9/15/23	2
BACCT 3.00% 4/21/20	1
BMWFT 3.15% 5/15/23	1
BMWLT 2.07% 10/20/20	1
BMWLT 3.26% 7/20/21	1
BMARK 3.66% 2/15/21	1
BMARK 4.34% 5/15/53	1

BMARK 4.18% 1/15/52	1
COMM 3.257% 5/10/48	1
CSAIL 17-CX9 A2 3.05% 9/15/50	1
COMM 2012-LC4 A4 3.29% 12/10/44	1
COMM 2010-C1 A3 4.21% 7/10/46	2
COMM 2012-CR2 A3 2.84% 8/15/45	2
COMM 2012-CR3 ASB 2.37% 10/15/45	1
COMM 2012-CR3 A3 2.82% 10/15/45	1
COMM 2013-CR6 A4 3.10% 3/10/46	1
COMM 2013-CR7 A4 3.21% 3/10/46	1
COMM 2014-CR18 A2 2.92% 7/15/47	1
CNH 2018-A A3 3.12% 7/17/23	1
CPART 2018-1A A3 3.00% 11/19/21	1
CPART 17-1A A3 2.05% 3/19/21	1
CPART 18-2A A3 3.27% 12/19/22	1
COMET 2015-A8 A8 2.05% 8/15/23	1
COMET 2016-A3 A3 1.34% 4/15/22	1
COMET 2016-A4 A4 1.33% 6/15/22	1
COMET 2017-A1 A1 2.0% 1/17/23	1
COMET 2017-A\$ A4 1.99% 7/17/23	2
COMET 2018-A1 3.01% 2/15/24	1
CARMX 16-4 A3 1.40% 8/15/21	1
CARMX 2017-4 A3 2.11% 10/17/22	1
CARMX 2017-3 A3 1.97% 4/15/22	1
CARMX 2018-2 A3 2.98% 1/17/23	1
CARMX 2018-4 A3 3.36% 9/15/23	1
CHAIT 2016-A2 A 1.37% 6/15/21	2
CHAIT 2016-A5 A5 1.27% 7/15/21	1
CCCIT 2016-A1 A1 1.75% 11/19/21	2
CCCIT 2017-A3 1.92% 4/7/22	1
CCCIT 2017-A8 A8 1.86% 8/8/22	1
CCCIT 2017-A9 A9 1.80% 9/20/21	1
CCCIT 2018-A1 A1 2.49% 1/20/23	1
CGCMT 2012-GC8 A4 3.02% 9/10/45	1
CGCMT 13-GC17 A4 4.13% 11/10/46	1
CGCMT 2014-GC23 A3 3.36% 7/10/47	1
CGCMT 16-GC36 AAB 3.37% 2/10/49	1
CGCMT 2017-P7 A2 3.21% 4/15/50	1
DBUBS 2011-LC2A A4 4.54% 7/10/44	1
DEFT 2018-2 A3 3.37% 10/22/23	1
DCENT 2015-A2 A 1.90% 10/17/22	1
DCENT 2016-A3 A3 1.85% 10/16/23	1
DCENT 2016-A4 A4 1.39% 3/15/22	1
DCENT 2017-A6 A6 1.88% 2/15/23	1
DCENT 2018-A5 A5 3.32% 3/15/24	2
FHLG 15 YR 3.50% 8/1/26	1

FHLG 15 YR 2.50% 10/1/31	1
FHLG 20YR 3.50% 6/1/32	1
FHLG 15YR 3.00% 5/1/29	2
FHLG 5.50% 5/1/34	1
FHLG 20YR 3.00% 11/1/33	1
FHLG 20YR 3.50% 7/1/32	1
FNR 2013-16 GP 3.00% 3/25/33	1
FNR 2014-83 P 3.00% 6/25/43	1
FNR 2015-49 LE 3.00% 7/25/45	1
FNR 2015-32 PA 3.00% 4/25/44	1
FNR 2015-28 P 2.50% 5/25/45	2
FNR 2015-28 JE 3.00% 5/25/45	1
FNR 2015-42 LE 3.00% 6/25/45	1
FNR 2015-54 GA 2.50% 7/25/45	1
FNR 2016-26 CG 3.00% 5/25/46	2
FNR 2016-19 AH 3.00% 4/25/46	1
FNR 2016-27 HK 3.00% 1/25/41	1
FNR 2016-27 KG 3.00% 1/25/40	1
FNR 2016-37 BK 3.00% 6/25/46	3
FNR 2016-34 GH 3.00% 6/25/46	2
FNR 2016-105 PA 3.50% 4/25/45	1
FNR 2016-100 P 3.50% 11/25/44	2
FNR 2017-20 AP 3.50% 3/25/45	2
FNR 2017-11 HA 3.50% 12/25/45	2
FNR 2017-74 PA 3.50% 11/25/45	2
FNR 2017-97 P 3.00% 1/25/47	1
FNR 2018-3 LP 3.00% 2/25/47	4
FNR 2018-44 PA 3.50% 6/25/44	8
FNR 2018-16 NB 3.25% 12/25/44	1
FNR 2018-11 LA 3.50% 7/25/45	2
FNR 2018-88 BA 4.00% 11/25/43	3
FNMA 5.50% 11/1/34	1
FHMS K035 A2 3.46% 8/25/23	1
FHR 2015-4472 WL 3.00% 5/15/45	1
FHR 4656 PA 3.50% 10/15/45	1
FHR 4683 EA 2.50% 5/15/47	2
FHR 2018-4766 MA 3.50% 2/15/46	3
FHR 2018-4765 QA 3.00% 2/15/46	3
FHR 4847 CA 3.50% 11/15/45	2
FNMA 15 YR 3.50% 3/1/27	1
FNMA 15 YR 3.5% 9/1/29	1
FNMA 15YR 3.00% 7/1/30	3
FNR 2011-26 PA 4.50% 4/25/41	1
FNMA 3.50% 7/1/32	2
FNMA 15YR 4.00% 8/1/27	2
FNMA 10YR 2.00% 8/1/23	1

FITAT 2017-1 A3 1.80% 2/15/22	1
FORDO 2018-A A3 3.03% 11/15/22	1
FORDF 2016-1 A1 1.76% 2/15/21	1
FORDF 2017-1 A1 2.07% 5/15/22	1
FORDF 2017-2 2.16% 9/15/22	1
FORDF 2018-1 2.95% 5/15/23	2
FORDR 14-1 A 2.26% 11/15/25	1
FORDR 2014-2 A 2.31% 4/15/26	1
FORDR 2015-1 A 2.12% 7/15/26	1
FORD CRD 16-1 A 2.31% 8/15/27	2
FORDO 2016-C A3 1.22% 3/15/23	1
FORDO 2017-A A3 1.67% 6/15/21	1
GFORT 2015 -1 A1 1.96% 5/17/21	1
GFORT 2017-1 A1 2.22% 1/18/22	1
GFORT 2018-2 A1 3.13% 3/15/23	1
GSMS 2012-GC6 A3 3.48% 1/10/45	1
GSMS 2013-GC10 A5 2.94% 2/10/46	1
GSMS 2012-GCJ9 A3 2.77% 11/10/45	1
GSMC 14-GC26 AAB 3.37% 11/10/47	1
GSMS 2015-GC28 AAB 3.21% 2/10/48	1
GMALT 2018-2 A3 3.06% 6/21/21	1
GMCAR 2018-1A A3 2.39% 7/18/22	1
HAROT 2016-4 A3 1.21% 12/18/20	1
HAROT 2017-1 A3 1.72% 7/21/21	1
HART 2016-B A3 1.29% 4/15/21	1
HART 2018-A A3 2.79% 7/15/22	1
HFMOT 2016-1A A2 1.81% 3/15/21	1
JPMCC 2015-JP1 A2 3.14% 1/15/49	1
JPMCC 2012-C8 A3 2.83% 10/15/45	1
JPMCC 13-C10 A5 3.14% 1/15/49	1
JPMBB 14-C22 ASB 3.50% 9/15/47	1
JPMCC 16-JP4 A2 2.93% 12/15/49	1
KCOT 2018-1A A3 3.10% 8/15/22	2
MSBAM 2013-C7 A4 2.92% 2/15/46	1
MSC 2011-C2 A4 4.67% 6/15/44	1
MSBAM 2013-C8 A4 3.13% 12/15/48	1
MSBAM 13-C13 ASB 3.56 11/15/46	1
MSBAM 2014-C16 ASB 3.47% 6/15/47	1
MSBAM 2014-C17 ASB 3.47% 8/15/47	1
NAROT 2017-A A3 1.74% 8/16/21	1
NMOTR 2016-A A2 1.54% 6/15/21	1
SRT 2017-A A3 2.22% 1/20/21	1
SRT 2018-A A3 2.93% 5/20/21	1
SSTRT 17-2A A3 2.04% 4/26/21	1
SSTRT 2018-2A A3 3.33% 8/25/22	2
SSTRT 17-1A A3 1.89% 8/25/20	1

TAOT 2018-B A3 2.96% 9/15/22	1
UBSBB 2012-C2 A4 3.53% 5/10/63	1
VZOT 16-1A A 1.42% 1/20/21	1
VZOT 17-2A A 1.92% 12/20/21	1
VZOT 2017-3A A1A 2.06% 4/20/22	1
VZOT 2018-A A1A 3.23% 4/20/23	2
VALET 2018-1 A3 3.02% 11/21/22	1
WFRBS 2014-C22 ASB 3.46% 9/15/57	1
WFRBS 2013-C14 A5 3.34% 6/15/46	1
WFRBS 2012-C9 A3 2.87% 11/15/45	1
WFRBS 2011-C3 A4 4.38% 3/15/44	1
WFRBS 2012-C7 A2 3.43% 6/15/45	1
WFRBS 2013-C11 A5 3.07% 3/15/45	2
WFRBS 2013-C16 A5 4.42% 9/15/46	1
WFCM 2015-C27 ASB 3.28% 2/15/48	1
WFCM 2016-C34 A2 2.60% 6/15/49	1
WFCM 2016-C37 A2 3.10% 12/15/49	1
WOART 16-B A3 1.30% 2/15/22	1
Total Mortgage Backed Securities	222
Total Stable Value Fund at market value	629
Employer contribution receivable	3
Employee contribution receivable	2
Loans to participants with interest rates ranging from 4.25% to 11.0% and maturity dates through November 2048*	42
Total	\$ 3,459

* Party-in-interest