

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 <br> HERE | Filed with authorized/valid electronic signature. |  |  |
| :--- | :--- | :--- | :--- |
|  | Signature of plan administrator | Date | EnRIT/2020 |

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

| 3a Plan administrator's name and address $\square$ Same as Plan Sponsor | 3b Administrator's EIN 20-1730106 |  |
| :---: | :---: | :---: |
| BENEFITS COMMITTEE R.R. DONNELLEY 35 W. WACKER DRIVE CHICAGO, IL 60601 | 3c Administrator's telephone number312-326-8000 |  |
| 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, | 4b EIN |  |
| a Sponsor's name | 4d PN |  |
| C Plan Name |  |  |
| 5 Total number of participants at the beginning of the plan year | 5 | 15011 |
| 6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1), $\mathbf{6 a ( 2 )}, \mathbf{6 b}, 6 \mathrm{c}$, and $\mathbf{6 d}$ ). |  |  |
| $\mathbf{a}(1)$ Total number of active participants at the beginning of the plan year | 6a(1) | 5743 |
| a(2) Total number of active participants at the end of the plan year | 6a(2) | 5131 |
| b Retired or separated participants receiving benefits. | 6b | 6886 |
| C Other retired or separated participants entitled to future benefits. | 6c | 1733 |
| d Subtotal. Add lines 6a(2), 6b, and 6c. | 6d | 13750 |
| e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. | 6 e | 904 |
| f Total. Add lines 6d and 6e. | $6 f$ | 14654 |
| g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) | 6 g |  |
| h Number of participants who terminated employment during the plan year with accrued benefits that were less than $100 \%$ vested | 6h | 0 |
| 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:
1A 1C 1I 1F 3H
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) | $\square$ | Insurance |
| :--- | :--- | :--- |
| (2) | $\square$ | Code section 412(e)(3) insurance contracts |
| (3) | $\square$ | Trust |
| (4) | $\square$ | General assets of the sponsor |

9b Plan benefit arrangement (check all that apply)

| (1) | $\square$ | Insurance |
| :--- | :--- | :--- |
| (2) | $\square$ | Code section 412(e)(3) insurance contracts |
| (3) | $\searrow$ | Trust |
| (4) | $\square$ | General assets of the sponsor |

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) X R (Retirement Plan Information)
(2) $\quad \square$ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary
(3) $\searrow$ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary

## b General Schedules

| (1) | Q | H (Financial Information) |
| :--- | :--- | :--- |
| (2) | $\square$ | I (Financial Information - Small Plan) |
| (3) | $\square$ | A (Insurance Information) |
| (4) | X | C (Service Provider Information) |
| (5) | D | D (DFE/Participating Plan Information) |
| (6) | $\square$ | G (Financial Transaction Schedules) |


\section*{| 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.)
$\square$ Yes No

If "Yes" is checked, complete lines 11 b and 11 c .
11b Is the plan currently in compliance with the Form M-1 filing requirements? (See instructions and 29 CFR 2520.101-2.) $\square$ 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


## Statement by Enrolled Actuary


 combination, offer my best estimate of anticipated experience under the plan.

| SIGN HERE |  | 08/31/2020 |
| :---: | :---: | :---: |
| JULIE L. SOLUM Signature of actuary |  | Date |
|  |  | 20-06838 |
| AON CONSULTING, INC. Type or print name of actuary |  | Most recent enrollment number |
|  |  | 847-295-5000 |
| 4 OVERL LINCOLN | Firm name | Telephone number (including area code) |

Address of the firm
If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions

## Part II Beginning of Year Carryover and Prefunding Balances

|  | (a) Carryover balance | (b) Prefunding balance |
| :---: | :---: | :---: |
| Balance at beginning of prior year after applicable adjustments (line 13 from prior year) | 0 | 2233654 |
| 8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year) | 0 | 0 |
| 9 Amount remaining (line 7 minus line 8)............. | 0 | 2233654 |
| 10 Interest on line 9 using prior year's actual return of -1.64\%. | 0 | -36632 |
| 11 Prior year's excess contributions to be added to prefunding balance: <br> a Present value of excess contributions (line 38a from prior year). |  | 0 |
| $\mathbf{b}(1)$ Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of $\qquad$ 5.90\%...... |  | 0 |
| b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return |  | 0 |
| C Total available at beginning of current plan year to add to prefunding balance |  | 0 |
| d Portion of (c) to be added to prefunding balance. |  | 0 |
| 12 Other reductions in balances due to elections or deemed elections. | 0 | 0 |
| 13 Balance at beginning of current year (line $9+$ line $10+$ line 11d - line 12). | 0 | 2197022 |

## Part III Funding Percentages

| 14 | Funding target attainment percentage | 14 | 115.40\% |
| :---: | :---: | :---: | :---: |
| 15 | Adjusted funding target attainment percentage | 15 | 115.90\% |
| 16 | Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement | 16 | 112.58\% |
| 17 | If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage. | 17 | \% |

## Part IV Contributions and Liquidity Shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

| (a) Date <br> (MM-DD-YYYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees | (a) Date <br> (MM-DD-YYYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |


|  | a Contributions allocated toward unpaid minimum required contributions from prior years. | 19a |  | 0 |
| :---: | :---: | :---: | :---: | :---: |
|  | b Contributions made to avoid restrictions adjusted to valuation date | 19b |  | 0 |
|  | c Contributions allocated toward minimum required contribution for current year adjusted to valuation date... | 19c |  | 0 |
| 20 | Quarterly contributions and liquidity shortfalls: |  |  |  |
|  | a Did the plan have a "funding shortfall" for the prior year?.................................................................................................... $\square$ Yes X No |  |  |  |
|  | b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? |  | Yes $\square$ | No |
|  | C If line 20a is "Yes," see instructions and complete the following table as applicable: |  |  |  |

Liquidity shortfall as of end of quarter of this plan year
(1) 1 st
(2) 2nd
(3) 3rd
(4) 4th

## Part V $\quad$ Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:


## Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment. ......................................................................................................................................................................... $\square$ Yes 区 No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment............................. $\square$ Yes $\boxtimes$ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment...................... $\begin{aligned} & \text { Y Yes } \square \text { No }\end{aligned}$

27 | If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding |
| :--- |
| attachment.................................................................................................................................... |

| Part VII | Reconciliation of Unpaid Minimum Required Contributions For Prior Years |
| :--- | :--- |



## Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):
a Target normal cost (line 6)............................................................................................................................ 31 3
b Excess assets, if applicable, but not greater than line 31a
.........................................

32 Amortization installments:
a Net shortfall amortization installment $\qquad$
b Waiver amortization installment

| Outstanding Balance |
| ---: |
| 0 |

3620000

If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month

Day
Year $\qquad$ ) and the waived amount
34 Total funding requirement before reflecting carryover/prefunding balances (lines $31 a-31 b+32 a+32 b-33$ ).....
33

38 Present value of excess contributions for current year (see instructions)
a Total (excess, if any, of line 37 over line 36)
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances .......... 38 b
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)
40 Unpaid minimum required contributions for all years

| 38 a | 0 |
| :---: | :---: |
| 38 b | 0 |
| 39 | 0 |
| $\mathbf{4 0}$ | 0 |


\section*{| Part IX | Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions) |
| :--- | :--- |}

41 If an election was made to use PRA 2010 funding relief for this plan:
a Schedule elected ................................................................................................................................................. $\square 2$ plus 7 years $\square 15$ years
b Eligible plan year(s) for which the election in line 41a was made ...................................................................... $\square 2008 \quad \square 2009 \square 2010 \square 2011$

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

PENSION BENEFIT GUARANTY CORPORATIO

## 52-1042410

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 23 | NONE | 2627470 | Yes $\square$ No X | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

MILLIMAN USA, INC.

91-0675641

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0- | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15 | NONE | 568189 | Yes $\square$ No $\boxtimes$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

LEGAL AND GENERAL INVESTMENT

20-8058531

| (b) <br> Service Code(s | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0-. | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 330384 | Yes $\square$ No $\boxtimes$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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)

## NORTHERN TRUST COMPANY

## 36-1561860

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 285051 | NONE | 294625 | Yes $\square$ No X | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## ROCATON INVESTMENT ADVISORS

04-3638035

| (b) Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 180701 | Yes $\square$ No $\backslash$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## ARROWSTREET CAPITAL, LP

04-3472863

| (b) <br> Service <br> Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 153383 | Yes $\square$ No $\backslash$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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)

JP MORGAN INVESTMENT MANAGEMENT INC

## 13-3200244

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 110472 | Yes $\square$ No X | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## WESTERN ASSET MANAGEMENT CO.

95-2705767

| (b) Service Code(s | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0-. | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 102388 | Yes $\square$ No $\chi$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## ALIGHT SOLUTIONS, LLC

36-2235791

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 64 | NONE | 73378 | Yes $\square$ No 区 | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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)

DIMENSIONAL FUND ADVISORS

## 22-2370029

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 68712 | Yes $\square$ No X | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## WELLINGTON TRUST COMPANY

04-2715549

| (b) <br> Service Code(s) | (c) <br> Relationship to <br> employer, employee <br> organization, or <br> person known to be <br> a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0-. | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 28 | NONE | 58084 | Yes $\square$ No 区 | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## BAKER TILLY VIRCHOW KRAUSE LLP

39-0859910

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 10 | NONE | 55413 | Yes $\square$ No 区 | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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)

## WELLS CAPITAL MANAGEMENT

## 95-3692822

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> 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) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2850 | NONE | 28114 | Yes $\square$ No X | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

## R R DONNELLEY AND SONS COMPANY

## 36-1004130

| (b) <br> Service Code(s) | (c) <br> Relationship to employer, employee organization, or person known to be a party-in-interest | (d) <br> Enter direct compensation paid by the plan. If none, enter -0- | (e) <br> Did service provider receive indirect compensation? (sources other than plan or plan sponsor) | (f) <br> Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures? | (g) <br> Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element <br> (f). If none, enter -0-. | (h) <br> Did the service provider give you a formula instead of an amount or estimated amount? |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 17 | NONE | 13073 | Yes $\square$ No $\boxtimes$ | Yes $\square$ No $\square$ |  | Yes $\square$ No $\square$ |

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

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

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


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

## Part II $\quad$ 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

| instructions) | Service <br> Code(s) |  |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |


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

\(\left.$$
\begin{array}{c|c|c}\hline \text { (a) Enter name and EIN or address of service provider (see } \\
\text { instructions) }\end{array}
$$ \begin{array}{c}(b) Nature of <br>
Service <br>

Code(s)\end{array}\right)\) (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) <br> (complete as many entries as needed) |  |
| :--- | :--- | :--- |
| a | Name: | b EIN: |
| c | Position: | e Telephone: |
| d | Address: |  |
|  |  |  |

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:



## a Name of MTIA, CCT, PSA, or 103-12 IE: INT EQ ACWI EX US FUND <br> b Name of sponsor of entity listed in (a): <br> ARROWSTREET CAPITAL


a Name of MTIA, CCT, PSA, or 103-12 IE:
b Name of sponsor of entity listed in (a):

| c EIN-PN | d Entity <br> code | e Dollar value of interest in MTIA, CCT, PSA, or <br> $103-12$ IE at end of year (see instructions) |
| :--- | ---: | ---: |

a Name of MTIA, CCT, PSA, or 103-12 IE:
b Name of sponsor of entity listed in (a):

| c EIN-PN | d Entity <br> code | eDollar value of interest in MTIA, CCT, PSA, or <br> $103-12$ IE at end of year (see instructions)  <br> a Name of MTIA, CCT, PSA, or 103-12 IE:  <br>   <br> b Name of sponsor of entity listed in (a):  <br> c EIN-PN d Entity <br> code |
| :--- | :--- | :--- |

a Name of MTIA, CCT, PSA, or 103-12 IE:
b Name of sponsor of entity listed in (a):

| c EIN-PN | d Entity <br> code | e Dollar value of interest in MTIA, CCT, PSA, or |
| :--- | ---: | ---: |
| $103-12$ IE at end of year (see instructions) |  |  |

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) |
| :---: | :---: | :---: |
| 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) |

a Name of MTIA, CCT, PSA, or 103-12 IE:
b Name of sponsor of entity listed in (a):

| c EIN-PN | d Entity <br> code | e Dollar value of interest in MTIA, CCT, PSA, or <br> $103-12$ IE at end of year (see instructions) |
| :---: | :---: | :---: |

a Name of MTIA, CCT, PSA, or 103-12 IE:
b Name of sponsor of entity listed in (a):

| c EIN-PN | d Entity <br> code | e Dollar value of interest in MTIA, CCT, PSA, or <br> $103-12$ IE at end of year (see instructions) |
| :--- | :---: | :---: |


\section*{| Part II | Information on Participating Plans (to be completed by DFEs) |
| :--- | :--- | <br> (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 |$\quad$ C EIN-PN

a Plan name


| SCHEDULE H <br> (Form 5500) <br> Department of the Treasury Internal Revenue Service | Financial Information |  | OMB No. 1210-0110 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 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). <br> File as an attachment to Form 5500. |  | 2018 |  |  |
| Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation |  |  | This Form is Open to Public Inspection |  |  |
| For calendar plan year 2018 or fiscal plan year beginning 12/01/2018 <br> A Name of plan <br> RR DONNELLEY PENSION PLAN |  |  |  |  |  |
|  |  | B Threeplan n | r (PN) | - | 022 |
| C Plan sponsor's name as shown on line 2a of Form 5500 R.R. DONNELLEY |  | D Employer Identification Number (EIN) 36-1004130 |  |  |  |

## 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 $1 \mathrm{c}(9)$ 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 $1 \mathrm{~b}(1), 1 \mathrm{~b}(2), 1 \mathrm{c}(8), 1 \mathrm{~g}, 1 \mathrm{~h}$, 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.. | 12 | 356352 | 152211 |
| b Receivables (less allowance for doubtful accounts): |  |  |  |
| (1) Employer contributions. | 1b(1) |  |  |
| (2) Participant contributions.. | 1b(2) |  |  |
| (3) Other... | 1b(3) | 2486739 | 2941229 |
| C General investments: |  |  |  |
| (1) Interest-bearing cash (include money market accounts \& certificates of deposit). | 1c(1) | 3865553 | 3416535 |
| (2) U.S. Government securities ... | 1c(2) | 98443200 | 123706214 |
| (3) Corporate debt instruments (other than employer securities): |  |  |  |
| (A) Preferred ................................................................ | 1c(3)(A) |  |  |
| (B) All other.. | 1c(3)(B) | 55774667 | 64055993 |
| (4) Corporate stocks (other than employer securities): |  |  |  |
| (A) Preferred | 1c(4)(A) | 0 |  |
| (B) Common.. | 1c(4)(B) | 14038 | 14168 |
| (5) Partnership/joint venture interests | 1c(5) | 365834 | 2842938 |
| (6) Real estate (other than employer real property).. | 1c(6) | 0 |  |
| (7) Loans (other than to participants) ...................... | 1c(7) |  |  |
| (8) Participant loans... | 1c(8) |  |  |
| (9) Value of interest in common/collective trusts ................................... | 1c(9) | 221482752 | 268844028 |
| (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) | 21829448 | 0 |
| (13) Value of interest in registered investment companies (e.g., mutual funds). | 1c(13) | 64147677 | 70085431 |
| (14) Value of funds held in insurance company general account (unallocated contracts) | 1c(14) |  |  |
| (15) Other....................................................................................... | 1c(15) | 106049263 | 97294427 |


| 1d Employer-related investments: |  | (a) Beginning of Year | (b) End of Year |
| :---: | :---: | :---: | :---: |
| (1) Employer securities.. | 1d(1) |  |  |
| (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) | $1 f$ | 574815523 | 633353174 |
| Liabilities |  |  |  |
| g Benefit claims payable.. | 19 |  |  |
| h Operating payables | 1h |  |  |
| i Acquisition indebtedness. | 1 i |  |  |
| j Other liabilities. | 1j | 69379628 | 61823534 |
| k Total liabilities (add all amounts in lines 1g through1j).. | 1k | 69379628 | 61823534 |
| Net Assets |  |  |  |
| I Net assets (subtract line 1k from line 1f). | 11 | 505435895 | 571529640 |

## 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 $2 \mathrm{a}, 2 \mathrm{~b}(1)(\mathrm{E}), 2 \mathrm{e}, 2 \mathrm{f}$, and 2 g .

## Income

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

|  | (a) Amount | (b) Total |
| :---: | :---: | :---: |
| 2a(1)(A) |  |  |
| 2a(1)(B) |  |  |
| 2a(1)(C) |  |  |
| 2a(2) |  |  |
| 2a(3) |  | 0 |
| 2b(1)(A) | 99587 |  |
| 2b(1)(B) | 1586627 |  |
| 2b(1)(C) | 2716701 |  |
| 2b(1)(D) |  |  |
| 2b(1)(E) |  |  |
| 2b(1)(F) | 310323 |  |
| 2b(1)(G) |  | 4713238 |
| 2b(2)(A) | -147 |  |
| 2b(2)(B) | -4444 |  |
| 2b(2)(C) | 2027631 |  |
| 2b(2)(D) |  | 2023040 |
| 2b(3) |  |  |
| 2b(4)(A) | 199322424 |  |
| 2b(4)(B) | 181442323 |  |
| 2b(4)(C) |  | 17880101 |
| 2b(5)(A) | 0 |  |
| 2b(5)(B) | 27800905 |  |
| 2b(5)(C) |  | 27800905 |


|  |  | (a) Amount | (b) Total |
| :---: | :---: | :---: | :---: |
| (6) Net investment gain (loss) from common/collective trusts. | 2b(6) |  | 38022316 |
| (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) |  | 5078678 |
| c Other income.. | 2c |  | 978184 |
| d Total income. Add all income amounts in column (b) and enter total. | 2d |  | 96496462 |
| Expenses |  |  |  |
| e Benefit payment and payments to provide benefits: |  |  |  |
| (1) Directly to participants or beneficiaries, including direct rollovers. | 2e(1) | 25532261 |  |
| (2) To insurance carriers for the provision of benefits. | 2e(2) |  |  |
| (3) Other. | 2e(3) |  |  |
| (4) Total benefit payments. Add lines $\mathbf{2 e} \mathbf{e} \mathbf{1}$ ) through (3). | 2e(4) |  | 25532261 |
| f Corrective distributions (see instructions) | $2 f$ |  |  |
| $g$ Certain deemed distributions of participant loans (see instructions) | 2 g |  |  |
| h Interest expense. | 2h |  |  |
| i Administrative expenses: (1) Professional fees. | 2i(1) | 543812 |  |
| (2) Contract administrator fees. | 2i(2) | 73378 |  |
| (3) Investment advisory and management fees. | 2i(3) | 922419 |  |
| (4) Other | 2i(4) | 3330847 |  |
| (5) Total administrative expenses. Add lines $\mathbf{2 i} \mathbf{( 1 )}$ through (4).. | 2i(5) |  | 4870456 |
| I Total expenses. Add all expense amounts in column (b) and enter total | 2j |  | 30402717 |
| Net Income and Reconciliation |  |  |  |
| k Net income (loss). Subtract line $\mathbf{2 j}$ from line 2d | 2k |  | 66093745 |
| I Transfers of assets: |  |  |  |
| (1) To this plan....... | 21(1) |  |  |
| (2) From this plan.. | 21(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) $\square$ Unqualified
(2) $\square$ Qualified
(3) X Disclaimer
(4) $\square$ Adverse
b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?
C Enter the name and EIN of the accountant (or accounting firm) below:
(1) Name:BAKER TILLY VIRCHOW KRAUSE LLP
(2) EIN: 39-0859910
d The opinion of an independent qualified public accountant is not attached because:
(1) $\square$ This form is filed for a CCT, PSA, or MTIA.
(2) $\square$
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 $4 \mathrm{a}, 4 \mathrm{e}, 4 \mathrm{f}, 4 \mathrm{~g}, 4 \mathrm{~h}, 4 \mathrm{k}, 4 \mathrm{~m}, 4 \mathrm{n}$, or 5. 103-12 IEs also do not complete lines 4 j and 41 . MTIAs also do not complete line 41 .
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 |  | $X$ |  |

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.)
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.).
e Was this plan covered by a fidelity bond?
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?
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?
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?
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.).
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.)
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?

I Has the plan failed to provide any benefit when due under the plan?
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)
n If 4 m 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.

|  | Yes | No | Amount |
| :---: | :---: | :---: | :---: |
| $\mathbf{4 c}$ |  | $X$ |  |
|  |  |  |  |
| $\mathbf{4 d}$ |  | $X$ |  |
| $\mathbf{4 e}$ | $X$ |  |  |
| $\mathbf{4 f}$ |  | $X$ |  |
| $\mathbf{4 g}$ |  | $X$ |  |
| $\mathbf{4 h}$ |  |  |  |
| $\mathbf{4 i}$ | $X$ |  |  |
|  |  |  |  |
| $\mathbf{4 j}$ | $X$ |  |  |
| $\mathbf{4 k}$ |  | $X$ |  |
| $\mathbf{4 l}$ |  | $X$ |  |
| $\mathbf{4 m}$ |  | $X$ |  |
| $\mathbf{4 n}$ |  |  |  |

5a Has a resolution to terminate the plan been adopted during the plan year or any prior plan year?........ $\square$ Yes 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.)

| $\mathbf{5 b}(\mathbf{1}$ Name of plan(s) | $\mathbf{5 b}(2) \operatorname{EIN}(\mathrm{s})$ | $\mathbf{5 b}(3) \mathrm{PN}(\mathrm{s})$ |
| :--- | :--- | :--- |
|  |  |  |
|  |  |  |
|  |  |  |

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ...... 区 Yes $\square$ No
Not determined If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4224661 . See instructions.)


## Part III Amendments

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.......................................................................................... $\square$ Increase $\square$ Decrease $\square$ Both No

## 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.

| 10 | Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? .. | $\square$ Yes | $\square$ No |
| :---: | :---: | :---: | :---: |
|  | a Does the ESOP hold any preferred stock?. | $\square$ Yes | $\square$ 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? <br> (See instructions for definition of "back-to-back" loan.) | $\square$ Yes | $\square$ No |
|  | Does the ESOP hold any stock that is not readily tradable on an established securities market? ............................................... | $\square$ Yes | $\square$ No |

## Part V $\quad$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines $13 e(1)$ and $13 e(2)$.)
(1) Contribution rate (in dollars and cents)
(2) Base unit measure: $\square$ Hourly $\square$ Weekly $\square$ Unit of production $\square$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines $13 e(1)$ and $13 e(2)$.)
(1) Contribution rate (in dollars and cents)
(2) Base unit measure: $\square$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines $13 e(1)$ and $13 e(2)$.)
(1) Contribution rate (in dollars and cents)
(2) Base unit measure: $\square$ Hourly $\square$ Weekly $\square$ Unit of production $\square$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines $13 e(1)$ and $13 e(2)$.)
(1) Contribution rate (in dollars and cents)
(2) Base unit measure: $\square$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines $13 e(1)$ and $13 e(2)$.
(1) Contribution rate (in dollars and cents)
(2) Base unit measure: $\square$ Hourly $\square$ Weekly $\square$ Unit of production $\square$ 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 $\square$ 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 $\square$ and see instructions regarding required attachment. Otherwise, complete lines 13e(1) and 13e(2).)
(1) Contribution rate (in dollars and cents)

Base unit measure: $\square$
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

| $14 a$ |  |
| :---: | :--- |
| $14 b$ |  |
| 14 c |  |

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
15a
b The corresponding number for the second preceding plan year ...................................................................... 15b
16 Information with respect to any employers who withdrew from the plan during the preceding plan year:

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 $\quad$ 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: $50 \%$ Investment-Grade Debt: $\qquad$ 1\% Real Estate: $\qquad$ $0 \%$ Other: $\qquad$
b Provide the average duration of the combined investment-grade and high-yield debt:
$\square 0-3$ years $\quad \square 3-6$ years $\quad \square 6$-9 years $\quad \square 9-12$ years $\quad \square 12-15$ years $\quad$ 15-18 years $\quad \square 18-21$ years $\square 21$ years or more

C What duration measure was used to calculate line 19(b)?
区Effective duration $\quad \square$ Macaulay duration $\quad \square$ Modified duration $\quad \square$ Other (specify):

## RR DONNELLEY PENSION PLAN

## FINANCIAL STATEMENTS AND SUPPLEMENTAL INFORMATION

## AS OF AND FOR THE YEARS ENDED

NOVEMBER 30, 2019 AND 2018
TOGETHER WITH INDEPENDENT AUDITORS' REPORT

## RR DONNELLEY PENSION PLAN

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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 TO THE RR DONNELLY PENSION PLAN.

# Independent Auditors' Report 

To the Plan Administrator of the
RR Donnelley Pension Plan

## Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the RR Donnelley Pension Plan (the Plan), which comprise the statements of net assets available for benefits as of November 30, 2019 and 2018, and the related statements of changes in net assets available for benefits for the years then ended, 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 these 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 these financial statements based on conducting the audits in accordance with auditing standards generally accepted in the United States of America. Because of the matter described in the Basis for Disclaimer of Opinion paragraph, we were not able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion.

## Basis for Disclaimer of Opinion

As permitted by 29 CFR 2520.103-8 of the Department of Labor's (DOL) Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 (ERISA), the plan administrator instructed us not to perform, and we did not perform, any auditing procedures with respect to the information summarized in Note 4, which was certified by Northern Trust Company, the trustee of the Plan (the Trustee), except for comparing such information with the related information included in the financial statements. We have been informed by the plan administrator that the Trustee held the Plan's investments and executed Plan transactions for the years ended November 30, 2018 and 2017. The plan administrator has obtained a certification from the Trustee as of and for the years ended November 30, 2019 and 2018, that the information provided to the plan administrator by the Trustee is complete and accurate.

## Disclaimer of Opinion

Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we have not been able to obtain sufficient appropriate audit evidence to provide a basis for an audit opinion. Accordingly, we do not express an opinion on these financial statements.

[^0]
## Other Matter

The supplemental schedules, Schedule H, Line 4(i) - Schedule of Assets (Held at End of Year) and Schedule H, Line 4(j) - Schedule of Reportable Transactions, as of and for the year ended November 30, 2019, are required by the DOL's Rules and Regulations for Reporting and Disclosure under ERISA and are presented for the purpose of additional analysis and are not a required part of the financial statements. Because of the significance of the matter described in the Basis for Disclaimer of Opinion paragraph, we do not express an opinion on these supplemental schedules.

## Report on Form and Content in Compliance with DOL's Rules and Regulations

The form and content of the information included in the financial statements and supplemental schedules, other than that derived from the information certified by the Trustee, have been audited by us in accordance with auditing standards generally accepted in the United States of America and, in our opinion, are presented in compliance with the DOL's Rules and Regulations for Reporting and Disclosure under the ERISA.
Baker Filly US, LLP
BAKER TILLY US, LLP (formerly known as Baker Pily Virchow Krause, LLP)
Chicago, Illinois
September 8, 2020

## RR DONNELLEY PENSION PLAN

## STATEMENTS OF NET ASSETS AVAILABLE FOR PLAN BENEFITS

## AS OF NOVEMBER 30, 2019 AND 2018

## Employer Identification Number: 13-2618477, Plan Number 001

## ASSETS:

Investments
Investments, at fair value

| Interest bearing cash | $\$$ | $3,416,535$ |
| :--- | ---: | ---: |
| U.S. government securities | $\mathbf{\$ 1}, 255,397$ | $3,865,553$ |
| Foreign government securities | $3,727,981$ | $3,093,588$ |
| Municipal bonds | $2,455,874$ | $2,745,852$ |
| Corporate debt securities | $64,055,993$ | $55,774,667$ |
| Common stock | 7,410 | 6,692 |
| Short-term investments and common collective trusts | $245,471,934$ | $222,313,926$ |
| Pooled separate account | $23,372,094$ | $20,998,274$ |
| Registered investment companies | $70,085,431$ | $64,147,677$ |
| Partnership | $2,842,938$ | 365,834 |
| Hedge funds | $31,925,203$ | $31,714,056$ |

Total investments, at fair value
508,616,790
435,504,888

Investments pledged under securities lending agreements, at fair value

| U.S. government securities | $62,450,817$ | $68,349,612$ |
| :--- | ---: | ---: | ---: |
| Common stock | 6,758 |  |

Total investments pledged under securities lending agreements, at fair value

Total investments

| $62,457,575$ | $68,356,958$ |  |
| ---: | ---: | ---: |
| $571,074,365$ |  | $503,861,846$ |
| $59,185,369$ |  | $68,110,586$ |

Receivables

| Due from brokers for unsettled transactions | $1,500,000$ | 334,860 |
| :--- | ---: | ---: |
| Reimbursement receivable | - | 495,964 |
| Accrued interest and dividends | $1,441,229$ | $1,655,915$ |
|  |  |  |
| Total receivables | $2,941,229$ | $2,486,739$ |
| Cash - non-interest bearing | 152,211 | 356,352 |

Total assets
633,353,174
574,815,523

LIABILITIES:
Liability to return collateral held under securities lending agreements
59,185,369
540,936
68,110,586
513,289
Accrued expenses and other liabilities
2,067,857
726,381
Other payables
29,372 29,372

Total liabilities

|  | $61,823,534$ |  | $69,379,628$ |
| :--- | :--- | :--- | :--- |
|  |  |  |  |

The accompanying notes are an integral part of these statements.

## RR DONNELLEY PENSION PLAN

## STATEMENTS OF CHANGES IN NET ASSETS AVAILABLE FOR PLAN BENEFITS

## FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## Employer Identification Number: 13-2618477, Plan Number 001

|  | 2019 |  | 2018 |  |
| :---: | :---: | :---: | :---: | :---: |
| Investment income (loss): |  |  |  |  |
| Net appreciation (depreciation) in fair value of investments | \$ | 87,247,801 | \$ | $(17,593,877)$ |
| Interest, dividends and other |  | 9,248,661 |  | 10,409,457 |
| Net investment income (loss) |  | 96,496,462 |  | $(7,184,420)$ |
| Deductions from plan net assets: |  |  |  |  |
| Benefits paid to participants |  | 25,532,261 |  | 25,384,667 |
| Administrative expenses |  | 4,870,456 |  | 3,513,638 |
| Total deductions |  | 30,402,717 |  | 28,898,305 |
| Net increase (decrease) in plan net assets |  | 66,093,745 |  | $(36,082,725)$ |
| NET ASSETS AVAILABLE FOR PLAN BENEFITS: |  |  |  |  |
| Beginning of Year |  | 505,435,895 |  | 541,518,620 |
| End of Year | \$ | 571,529,640 | \$ | 505,435,895 |

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 1 - DESCRIPTION OF THE PLAN

The following description of the RR Donnelley Pension Plan (the "Plan") is provided for general information purposes only. For more complete information, refer to the Summary Plan Descriptions and the Plan document, including any modifications and amendments thereto.

## General

The Plan is a defined benefit pension plan sponsored by R. R. Donnelley \& Sons Company (the "Company" or "RR Donnelley") for the benefit of certain of its employees and former employees, certain employees and former employees of certain of its affiliates and certain beneficiaries and alternate payees. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended ("ERISA").

The Plan is comprised of the following Component Plans, each of which reflects historical terms of the Plan, a plan that was merged into the Plan or into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company (the "Legacy Donnelley Plan") prior to the Legacy Donnelley Plan’s merger into the Plan on December 31, 2013: (i) the RR Donnelley Component Plan (which reflects historical terms of the Legacy Donnelley Plan as in effect prior to the merger into the Legacy Donnelley Plan of other "Legacy Plans" (as defined below)); (ii) the R.R. Donnelley Printing Companies Component Plan (which reflects historical terms of the Merged Retirement Income Plan for Employees of R.R. Donnelley Print Company, L.P. and R.R. Donnelley Printing Company (sometimes referred to as the Meredith Burda Plan)) (the "Printing Companies Component Plan"); (iii) the Banta Employees Component Plan (which reflects historical terms of the Banta Corporation Employees Pension Plan); (iv) the Banta Book Group Component Plan; (v) the Banta Danbury Component Plan; (vi) the Banta Specialty Converting Component Plan (which collectively with the Component Plans described in clauses (iv) and (v) reflect historical terms of the Banta Hourly Pension Plan and are referred to herein as the "Banta Hourly Component Plans"); (vii) the Haddon Component Plan (which reflects historical terms of the Haddon Craftsmen, Inc. Retirement Plan); (viii) the Moore Wallace Component Plan (which reflects historical terms or the Retirement Income Plan of Moore Wallace North America, Inc.), which was merged into the Legacy Donnelley Plan on December 31, 2012; and (ix) the Bowne Component Plan (which reflects historical terms of the Plan as in effect prior to the Legacy Donnelley Plan's merger into the Plan). The term "Legacy Plan" is used herein to refer to a plan prior to the time it was merged with and into another Legacy Plan or with and into the Legacy Donnelley Plan or to the terms of the Legacy Donnelley Plan or the Plan prior to the relevant mergers, as applicable. The Plan consists of (i) a base document, which includes terms generally applicable to all participants in the Plan, and (ii) multiple supplements, each of which includes terms applicable to only one Component Plan.

The Plan is administered by the Plan’s Benefits Committee and its delegatees and allocates ("Plan Administrator"). Milliman serves as the Plan recordkeeper. Pursuant to a trust agreement with RR Donnelley, The Northern Trust Company (the "Trustee") acts as the trustee of the Retirement Benefit Trust of R. R. Donnelley \& Sons Company (the "Trust"), which is maintained for the purpose of holding assets of, and paying benefits under, the Plan.

## Pension Benefits

The Plan was frozen effective December 31, 2011, such that no participant (other than those participants covered by a collective bargaining agreement that required continued benefit accruals through 2014), may earn an accrued benefit under the Plan with respect to any plan year which begins on or after January 1, 2012. For plan benefits that were available prior to January 1, 2012, refer to the plan documents, including the Summary Plan Description. Participants generally vested in their accrued benefits after three to five years of service as specified in the plan documents.

The Plan's normal form of payment is a single life annuity for single participants and a $50 \%$ qualified joint and survivor annuity for married participants. Participants may also elect to have monthly benefits paid under other actuarially equivalent joint and survivor annuities and, in certain circumstances, a social security leveling option.

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 1 - DESCRIPTION OF THE PLAN (continued)

## Pension Benefits (continued)

Individual Component Plans may also provide for benefits to be taken as a lump sum payment and for a preretirement death benefit to the participant's surviving spouse should the participant die between the age at which the participant becomes fully vested and his or her benefit commencement date. For more information about plan payments refer to the Plan documents.

## Employee After-Tax Contributions

Pursuant to certain Component Plans, certain participants have made contributions, some of which may still be withdrawn in certain circumstances. Such Component Plans no longer permit participants to make contributions. Interest is currently credited with respect to such contributions at $120 \%$ of the federal mid-term rate. On November 30, 2019, there was less than $\$ 10,000$ in employee contributions remaining in the Plan. If the contributions are not withdrawn before benefits commence, they may be available to provide a minimum survivor benefit.

## Plan Expenses

Administrative expenses paid by the Plan include recordkeeping fees, investment consulting fees, and most other administrative fees, including various printing and postage fees. Expenses paid by the Company and its participating affiliates include audit fees, legal fees, and some actuarial and other administrative fees.

## NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

## Basis of Accounting

The accompanying financial statements have been prepared on the accrual basis of accounting in accordance with accounting principles generally accepted in the United States of America ("U.S. GAAP").

## Use of Estimates

The preparation of financial statements in conformity with U.S. GAAP requires the Plan Administrator to make estimates and assumptions that affect the reported amounts of assets and liabilities, the disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of additions and deductions during the reporting period. Actual results could differ from those estimates.

## New Accounting Guidance

In August 2018, the Financial Accounting Standards Board issued ASU 2018-13, Fair Value Measurement (Topic 820) - Disclosure Framework - Changes to the Disclosure Requirements for Fair Value Measurement. The ASU modifies the disclosure requirements for the fair value measurements in Topic 820, including the elimination, modification to, and addition of certain disclosures. The ASU is effective for fiscal years beginning after December 15, 2019. The provisions of the ASU are not expected to have a material impact on the Plan's financial statement disclosures.

## Investment Valuation and Income Recognition

The Plan's investments held in the Trust are stated at fair value. Fair value is the price that would be received or paid, as applicable, to sell an asset or to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 5, Fair Value Measurements, for further discussion.

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 2 - SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (continued)

## Investment Valuation and Income Recognition (continued)

Purchases and sales of securities are recorded on a trade-date basis. Interest income is recorded on the accrual basis. Dividends are recorded on the ex-dividend date. Net appreciation (depreciation) includes the plan's gains and losses on investments bought and sold as well as held during the year.

## Payment of Benefits

Benefit payments are recorded when paid.

## Parties-in-Interest

The Plan invests in certain collective funds issued by the Trustee and, therefore, the related sales and purchases of interests in such collective funds qualify as party-in-interest transactions. Fees paid by the Plan for investment management services of these collective funds are paid to the Trustee and consequently are also party-in-interest transactions. In addition, the Plan pays administrative fees for services provided by the Plan's recordkeeper and reimburses RR Donnelley for administrative services performed, which are considered party-in-interest transactions. The cost of RR Donnelley's services reimbursed by the Plan did not exceed the cost of the services performed.

These fees are included as part of administrative expenses in the statements of net assets available for plan benefits for the years ended November 30, 2019 and 2018. None of the forgoing party-in-interest transactions constitute prohibited transactions for which an exemption is not available under ERISA.

## Risks and Uncertainties

The actuarial present value of accumulated Plan benefits is determined based on certain assumptions pertaining to interest rates, inflation rates and participant demographics, all of which are subject to change. Due to uncertainties inherent in the estimation and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term could materially affect the actuarial present value of accumulated Plan benefits.

The Plan invests in various investment instruments including government securities, corporate debt instruments, and corporate stocks. Investment securities, in general, are exposed to various risks, such as interest rates, foreign exchange rates, credit, 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 those changes could materially affect the amounts reported in the statements of net assets available for plan benefits.

## Concentration of Credit Risk

The Trust invests primarily in equity securities, corporate bonds and government securities, or funds that invest in such securities and bonds. The investment managers invest in a large number of corporate and industry instruments to limit loss exposure. The equity securities are within a diverse portfolio of common stocks in multiple industries. The corporate bond securities include a broad range of debt securities with various maturities and in various industries to diversify Trust investments.

## NOTE 3 - ACTUARIAL INFORMATION

Accumulated Plan benefits are those future periodic payments, including lump-sum distributions, which are attributable to the service employees have rendered to the valuation date. Accumulated Plan benefits include benefits expected to be paid to (a) retired or terminated employees or their beneficiaries, (b) beneficiaries of employees who have died, and (c) present employees or their beneficiaries.

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 3 - ACTUARIAL INFORMATION (continued)

Previously, certain Legacy Bowne and Legacy RR Donnelley participant's accumulated benefits under a cash balance formula for service rendered as an active participant on and after January 1, 2008 and January 1, 2002, respectively. Effective January 1, 2012 and January 1, 2005 respectively, the component plans' notional cash balance accounts only earn monthly interest credits.

Benefits payable under all circumstances (retirement, death, disability and termination of employment) are included to the extent they are deemed attributable to employee service rendered to the valuation date.

The actuarial present value of accumulated Plan benefits is determined by Aon, the Plan's actuary, and is the amount that results from applying actuarial assumptions to adjust the accumulated Plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal or retirement) between the valuation date and the expected date of payment. The principal actuarial assumptions and methods used in the valuation were as follows:

| Mortality | December 1, 2018 | December 1, 2017 |
| :--- | :---: | :---: | :---: |
|  | Amounts-weighted <br> aggregate rates from the <br> exposure draft of the Pri- <br> 2012 mortality study <br> projected generationally <br> from 2012 with Scale <br> MP-2019 | 2006 base rates from the <br> RP-2014 mortality study <br> projected generationally <br> from 2006 with Scale <br> MP-2018 |
| Discount Rate | $4.42 \%$ | $3.74 \%$ |
| Normal Retirement Age | 65 | 65 |
| Credit Balance Interest Crediting Rate | 3egacy Bowne: 3.50\% | Legacy Bowne: 3.50\% |

The actuarial valuations are done using the beginning-of-the-year method. Therefore, the accumulated plan benefits for the Plan years ended November 30, 2019 and 2018 respectively, are presented from information provided by the actuary as of December 1, 2018 and December 1, 2017, respectively.

The foregoing actuarial assumptions are based on the presumption that the Plan will continue. Were the Plan to terminate, different actuarial assumptions and other factors might be applicable in determining the actuarial present value of accumulated Plan benefits.

The accumulated Plan benefits information as of December 1, 2018 is as follows:
Actuarial present value of accumulated Plan benefits -
Vested

Participants and beneficiaries currently receiving payments Vested benefits for other participants

Non-vested benefits

## TOTAL ACTUARIAL PRESENT VALUE OF

 ACCUMULATED PLAN BENEFITS| $\$ 248,432,773$ |
| ---: |
| $280,574,786$ |
| $529,007,559$ |
| $1,932,238$ |

\$ 530,939,797

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 3 - ACTUARIAL INFORMATION (continued)

For the year beginning December 1, 2018, the change in actuarial present value of accumulated Plan benefits is as follows:


## NOTE 4 - INFORMATION CERTIFIED BY THE TRUSTEE

The Plan Administrator has elected the method of annual reporting permitted by 29 CFR 2520.103-8 of the DOL’s Rules and Regulations for Reporting and Disclosure under ERISA. Accordingly, the Trustee has certified that the following data included in the accompanying financial statements and supplemental schedules is complete and accurate as specified:

- Investments, collateral held under securities lending agreements, receivables, cash - non-interest bearing, liability to return collateral held under securities lending agreements, due to brokers for unsettled transactions, and other payables as shown in the statements of net assets available for plan benefits as of November 30, 2019 and 2018
- Net investment income(loss) as shown in the statements of changes in net assets available for plan benefits for the years ended November 30, 2019 and 2018
- Supplemental Schedule H, Line 4 i - Schedule of Assets (Held at End of Year)
- Supplemental Schedule H, Line 4 j - Schedule of Reportable Transactions.

The Plan's independent accountants did not perform auditing procedures with respect to this information, except for comparing such information to the related information included in the financial statements and supplemental schedules.

## NOTE 5 - FAIR VALUE MEASUREMENTS

Various inputs are used in determining the fair value of the Plan's investments. These inputs are categorized in the three tier value hierarchy, which prioritizes valuation methodology based on the reliability of inputs, as listed below:

Level 1 - Valuation based on quoted prices for identical assets and liabilities in active markets.
Level 2 - Valuations based on observable inputs other than quoted prices included in Level 1, such as quoted prices for similar assets and liabilities in active markets, quoted prices for identical or similar assets and liabilities in markets that are not active, or other inputs that are observable or can be corroborated by observable market data.

Level 3 - Valuations based on unobservable inputs reflecting the Plan's own assumptions, consistent with reasonably available assumptions made by other market participants.

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 5 - FAIR VALUE MEASUREMENTS (continued)

The following is a description by major asset category of the valuation methodologies and levels used for determining fair value. There have been no changes in the methodology used at November 30, 2019 and 2018. All Plan assets that are valued using the net asset value ("NAV") practical expedient have not been included in the fair value hierarchy but are separately disclosed.

Cash and cash equivalents - Carrying value approximates fair value. As such, these assets were classified as Level 1.

Short-term investments - A cash equivalent collective trust fund valued using amortized cost method. Accordingly, this security is classified as Level 2. The collective trust has no redemption restrictions and can be redeemed daily.

Equity - The values of individual equity securities were based on quoted prices in active markets. Primarily, common stock and publicly traded registered investment companies are classified as equities. As such, these assets are classified as Level 1.

Fixed income - Fixed income securities are typically priced based on a valuation model rather than a last trade basis and are not exchange-traded. These valuation models involve utilizing dealer quotes, analyzing market information, estimating prepayment speeds and evaluating underlying collateral. Accordingly, these fixed income securities are classified as Level 2.

Collateral held under securities lending agreements - The category includes cash collateral that has been invested in a cash equivalent collective trust fund valued using amortized cost method. Accordingly, this security is classified as Level 2. The collective trust has no redemption restrictions and can be redeemed daily.

Collective trust funds, Pooled separate account, Equity fund, Partnership, Hedge funds and Real estate -The fair market value of these funds is based on the NAV reported by the respective fund manager as of the financial statement date. The NAV is used as a practical expedient.

The valuation methodologies described above may generate a fair value calculation that may not be indicative of net realizable value or future fair values. While the Plan believes the valuation methodologies used are appropriate, the use of different methodologies or assumptions in calculating fair value could result in different amounts. The Plan invests in various assets in which valuation is determined by NAV. The Plan believes that the NAV is representative of fair value at the reporting date, as there are no significant restrictions on redemption of these investments or other reasons to indicate that the investment would be redeemed at an amount different than the NAV.

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 5 - FAIR VALUE MEASUREMENTS (continued)

The fair values of the Plan's assets at November 30, 2019, by asset category are as follows:

| Asset Category | Level 1 |  | Level 2 |  | Level 3 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and cash equivalents.......... | \$ | 3,416,535 | \$ | - | \$ | - | \$ | 3,416,535 |
| Short-term investments ............. |  | - |  | 4,616,542 |  | - |  | 4,616,542 |
| Equity*.................................. |  | 14,168 |  | - |  | - |  | 14,168 |
| Fixed income* ......................... |  | - |  | 245,541,291 |  | - |  | 245,541,291 |
| Collateral held under securities lending agreements. |  | - |  | 59,185,369 |  | - |  | 59,185,369 |
| Subtotal |  | 3,430,703 |  | 309,343,202 |  | - |  | 312,773,905 |
| Assets measured at NAV** |  |  |  |  |  |  |  |  |
| Collective trust funds............. |  |  |  |  |  |  |  | 217,615,201 |
| Pooled separate account.......... |  |  |  |  |  |  |  | 23,372,094 |
| Equity fund........................ |  |  |  |  |  |  |  | 41,730,393 |
| Partnership......................... |  |  |  |  |  |  |  | 2,842,938 |
| Hedge funds............................ |  |  |  |  |  |  |  | 31,925,203 |
| Total assets measured at NAV |  |  |  |  |  |  |  | 317,485,829 |
| Total .................................. |  |  |  |  |  |  | \$ | 630,259,734 |

* Includes investments within the securities lending agreement with a total fair value of $\$ 62,457,575$ as noted on the Statement of Net Assets.
** In accordance with U.S. GAAP, certain investments that are measured at NAV per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy as of November 30, 2019. The fair value amounts presented in this table for such investments are intended to permit reconciliation of the fair value hierarchy to the investments presented in the statements of net assets available for benefits.

The fair values of the Plan's assets at November 30, 2018, by asset category are as follows:

| Asset Category | Level 1 |  | Level 2 |  | Level 3 |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Cash and cash equivalents.......... | \$ | 3,865,553 | \$ | - | \$ |  | \$ | 3,865,553 |
| Short-term investments ............. |  | - |  | 5,651,371 |  | - |  | 5,651,371 |
| Equity*.................................. |  | 14,038 |  | - |  |  |  | 14,038 |
| Fixed income* ......................... |  | - |  | 208,746,151 |  | - |  | 208,746,151 |
| Collateral held under securities lending agreements. |  | - |  | 68,110,586 |  | - |  | 68,110,586 |
| Subtotal |  | 3,879,591 |  | 282,508,108 |  | - |  | 286,387,699 |
| Assets measured at $N A V^{* *}$ |  |  |  |  |  |  |  |  |
| Collective trust funds... |  |  |  |  |  |  |  | 195,828,892 |
| Pooled separate account........... |  |  |  |  |  |  |  | 20,998,274 |
| Equity fund........................ |  |  |  |  |  |  |  | 36,677,677 |
| Partnership........................ |  |  |  |  |  |  |  | 365,834 |
| Hedge funds............................ |  |  |  |  |  |  |  | 31,714,056 |
| Total assets measured at NAV |  |  |  |  |  |  |  | 285,584,733 |
| Total .................................. |  |  |  |  |  |  | \$ | 571,972,432 |

* Includes investments within the securities lending agreement with a total fair value of $\$ 68,356,958$ as noted on the Statement of Net Assets.
** In accordance with U.S. GAAP, certain investments that are measured at NAV per share (or its equivalent) as a practical expedient are not classified in the fair value hierarchy as of November 30, 2018. The fair value amounts presented in this table for such investments are intended to permit reconciliation of the fair value hierarchy to the investments presented in the statements of net assets available for benefits.


## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS

## AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 5 - FAIR VALUE MEASUREMENTS (continued)

The following tables summarize for investments valued at NAV as a practical expedient as of November 30, 2019 and 2018, the redemption frequency permitted from the investment and the notification period, and in some cases capital commitments. In addition, the investment strategies for certain investments measured at NAV as a practical expedient are provided, if that investment is a fund that does not file an annual report on Form 5500 as a direct-filing entity.


| November 30, 2018 |  | Fair Value |  | Unfunded <br> Commitments | Redemption <br> Frequency (if currently eligible) | Redemption Notice Period |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Investments filing as direct filing entity: |  |  |  |  |  |  |
| Collective trust funds......................... | \$ | 115,088,694 |  | n/a | Daily | Date of trade or 5 days |
| Collective trust fund........................ | \$ | 38,704,107 |  | n/a | Twice per month Per manager's | 9 business days |
| Collective trust fund......................... | \$ | 42,036,091 |  | n/a | schedule | 1 day |
| Pooled separate account...................... | \$ | 20,998,274 |  | n/a | Monthly | 30 days |
| Equity fund................................... | \$ | 36,677,677 |  | n/a | Daily | Date of trade |
| Investments not filing as direct filing entity: |  |  |  |  |  |  |
| Partnership (a) .............................. | \$ | 365,834 | \$ | 13,034,166 | (a) | (a) |
| Hedge funds (b) .............................. | \$ | 31,714,056 |  | n/a | Quarterly | 90 days |

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 5 - FAIR VALUE MEASUREMENTS (continued)

(a) The partnership is a closed-end private debt drawdown fund with a total commitment of \$15,840,000 and \$13,400,000 as of November 30, 2019 and 2018, respectively and a term ending in August 2026. The fund seeks to invest in mortgage origination to under-served parts of the residential borrower community. The fund will seek to capitalize on an attractive arbitrage between direct mortgage financing rates and financial market securitization rates.
(b) These funds aim to achieve net-of-fee returns in excess of traditional high yield credit through high current income and credit loss-avoidance. One fund achieves this by focusing on bank trust preferred (TRuPS) CDO liabilities and the other fund focuses on below investment grade asset backed securities.

## NOTE 6 - TAX STATUS

The Internal Revenue Service ("IRS") issued a favorable determination letter dated June 8, 2017, in which the IRS indicated that the Plan, as then designed, was in compliance with the applicable requirements of Section 501(c)(9) of the Internal Revenue Code (the "Code"). The Plan has been amended since receiving the determination letter. However, the Plan Administrator, having consulted with the Plan’s legal counsel, believes that the Plan remains tax-exempt as of the financial statement date.
U.S. GAAP requires the Plan Administrator to evaluate tax positions taken by the Plan. The financial statement effects of an uncertain tax position are recognized when the position is more likely than not, based on the technical merits, to be sustained upon examination by taxing jurisdictions. The Plan has recognized no tax interest or penalties related to uncertain tax positions. The Plan is subject to routine audits by taxing jurisdictions. As of November 30, 2018, the Plan was under audit by the IRS for the 2015 plan year. The audit closed July 29, 2019 and the Plan no longer has any audits in progress.

## NOTE 7 - FUNDING POLICY

Contributions to provide benefits under the Plan are made solely by the Company and other participating employers. The funding policy of the Company and the other participating employers is to make cash contributions to the Plan in amounts needed to satisfy the minimum funding requirements of ERISA as determined by the Plan's independent actuary and such additional amounts as the Company, solely, shall determine to be in its best interest.

This calculation includes current service costs and an amount necessary to amortize funding deficits over a period of 7 years. There was no minimum required contribution for Plan fiscal years ending November 30, 2019 and 2018 and there was no funding standard carryover balance as of November 30, 2019 and 2018. As of November 30, 2019 and 2018, the Company believes it has met the minimum funding requirements of ERISA.

The Surface Transportation Extension Act of 2012 (the "Act") was passed in June 2012 and included certain pension stabilization provisions that will allow the Plan to take advantage of more favorable minimum funding requirements as compared to the Pension Protection Act of 2006. The provisions have been extended as a result of the 2014 Transportation Act. As a result of the Act, the Plan minimum funding requirements as compared to prior requirements decreased by $\$ 8.6$ million and $\$ 11.2$ million for 2019 and 2018, respectively.

## NOTE 8 - ASSETS UPON TERMINATION AND PENSION BENEFIT GUARANTEE CORPORATION COVERAGE

The Company has expressed no intention to terminate the Plan. However, the Company reserves the right to change, amend or terminate the Plan, subject to ERISA. The Plan provides that, upon Plan termination, no portion of the Trust assets may revert to the Company. Certain benefits under the Plan are insured by the Pension Benefit Guaranty Corporation ("PBGC") if the Plan terminates. Generally, the PBGC guarantees most vested normal

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 8 - ASSETS UPON TERMINATION AND PENSION BENEFIT GUARANTEE CORPORATION COVERAGE (continued)

retirement age benefits, early retirement benefits and certain disability and survivor's pensions. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to a certain statutory ceiling, which is adjusted periodically, limiting the amount of an individual's monthly benefit that the PBGC guarantees. For Plan terminations occurring during 2019 and 2018, that ceiling was $\$ 5,608$ and $\$ 5,420$ per month, respectively.

These ceilings apply to those pensioners who elect to receive their benefits in the form of a single-life annuity and are at least 65 years old at the time of retirement or Plan termination (whichever comes later). For younger annuitants or for those who elect to receive their benefits in some form more valuable than a single-life annuity, the corresponding ceilings are actuarially adjusted downward.

## NOTE 9 - DERIVATIVE INSTRUMENTS

The Plan has limited involvement with derivative financial instruments and does not use them for trading or speculative purposes. As part of an overall portfolio strategy, an investment manager for the Plan uses cash, including cash equivalents and futures contracts to manage exposure to U.S. treasury securities. As of November 30, 2019 and 2018, the Plan held U.S. treasury securities of $\$ 137,463,016$ and $\$ 138,840,531$, respectively, with notional values of future contracts of equal amounts. Cash equivalents are defined as highly liquid debt instruments maturing within ninety days at the time of purchase. Daily margin settlement for future contracts results in maintaining a zero market value for the contracts. Gains and losses attributable to changes in market value are reflected in unrealized and realized gains and losses in the accompanying financial statements. Total net realized gains (losses) attributable to U.S. treasury securities short-term future contracts were $\$ 10,786,704$ and $\$(4,791,231.00)$ for the years ended November 30, 2019 and 2018, respectively.

The investment manager also uses both written and purchased Eurodollar options in the portfolio to manage interest rate risk and volatility exposure. Written options are used to generate premium income in stable interest rate environments. However, written options create an obligation to buy or sell underlying securities under more volatile interest rate environments. The in-the-money portion of these written options is collateralized with cash equivalent securities. Purchase options provide protection from undesirable directional moves in interest rates while retaining upside potential. There were no open Eurodollar option positions at November 30, 2019 and 2018.

## NOTE 10 - SECURITIES LENDING

The Plan participates in a securities lending program through the Trustee. Securities lending utilizes certain existing securities of the Plan to earn additional income by loaning securities to approved banks and broker/dealers for a fee. In return for the loaned securities, the Trustee, prior to or simultaneous with delivery of the loaned securities to the borrower, receives collateral in the form of cash or U.S. government or agency securities as a safeguard against possible default of any borrower on the return of the loan under terms that permit the Plan to repledge or sell the securities. Loans are initially collateralized at least to $102 \%$ of the market value of the loaned securities. Cash collateral received is invested into the Core Short-Term Investment Fund managed by the Trustee similarly to a money market fund. Non-cash collateral received is held by the Trustee in a separate account and the Plan may not sell or repledge such non-cash collateral. It therefore has been excluded from the statement of net assets available for benefits.

The Plan receives a portion of the income earned on the cash collateral (or fee charged on non-cash collateral loans) and also continues to receive payments equal to the income earned on the loaned securities. Any gain or loss in the market price of the securities loaned that may occur during the term of the loan will be for the account of the Plan. The collateral is marked to market on a daily basis. In the event the counterparty is unable to meet its

## RR DONNELLEY PENSION PLAN

## NOTES TO FINANCIAL STATEMENTS AS OF AND FOR THE YEARS ENDED NOVEMBER 30, 2019 AND 2018

## NOTE 10 - SECURITIES LENDING (continued)

contractual obligation under the securities lending arrangement, the Plan may incur losses equal to the amount by which the market value of the securities differ from the amount of collateral held.

The Plan maintains full ownership rights to the securities loaned and accordingly, classifies loaned securities within its investments. At November 30, 2019 and 2018, $\$ 62,457,575$ and $\$ 68,356,958$, respectively of the Plan's investments were on loan under the Trustee's securities lending program. The fair value of the collateral received as a percentage of the total current value of the securities on loan by the Plan was approximately $102 \%$ at November 30, 2019 and 2018. The Plan recognizes the amount of the cash collateral received and a corresponding obligation to return such collateral on the statement of net assets available for benefits, which was $\$ 59,185,369$ and $\$ 68,110,586$ as of November 30, 2019 and 2018, respectively. The Plan may not repledge or sell the non-cash collateral received and accordingly does not record such collateral on the statement of net assets. The non-cash collateral's fair value is $\$ 4,662,848$ and $\$ 1,547,807$ as of November 30,2019 and 2018, respectively. Net income derived from the program was $\$ 113,831$ and $\$ 220,499$ for the years ended November 30, 2019 and 2018, respectively.

## NOTE 11 - SUBSEQUENT EVENTS

The Plan has evaluated subsequent events through September 8 , 2020, which is the date that the financial statements were approved and available to be issued, for events requiring recording or disclosure in the Plan's financial statements.

In March 2020, the World Health Organization declared the outbreak of novel coronavirus disease ("COVID-19") as a global pandemic, triggering volatility in financial markets and a significant negative impact on the global economy. As a result of COVID-19, the current fair value of the Plan's investments may be materially different from the amounts presented on the statement of net assets available for benefits as of November 30, 2019. Furthermore, the actuarial present value of accumulated Plan benefits may be materially different from the amounts presented within these notes to the financial statements.

The COVID-19 outbreak continues to spread as of the date of this report. There are many uncertainties related to the COVID-19 global pandemic that could negatively affect the Plan's statements of net assets available for benefits, statements of changes in net assets available for benefits, and the actuarial present value of accumulated Plan benefits. The Plan's individual investments and the discount rate used to determine the actuarial present value of accumulated Plan benefits fluctuate in response to changing market conditions. Therefore, the effect of the COVID19 pandemic on the Plan's investment values and the actuarial present value of accumulated Plan benefits in subsequent periods, if any, cannot be determined.

The Plan was amended and restated effective January 1, 2020, in connection with an IRS determination letter application that was filed on August 24, 2020.

## RR DONNELLEY PENSION PLAN

## SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)

## AS OF NOVEMBER 30, 2019

## Employer Identification Number: 13-2618477, Plan Number 001

United States dollar
U.S. GOVERNMENT SECURITIES

RESOLUTION FDG CORP FED BOOK ENTRY PRIN STRIPS GENERIC PRIN PMT 01-15-2030 RESOLUTION FDG CORP FED BOOK ENTRY PRIN STRIPS GENERIC PRIN PMT 04-15-2030 UNITED STATES TREASURY 1.375\% DUE 08-31-2026
UNITED STATES TREASURY BOND 1.75\% 11-15-2029
UNITED STATES TREASURY BOND 1.75\% 11-15-2029
UNITED STATES TREASURY BOND 2.25\% 08-15-2049
UNITED STATES TREASURY BOND 2.25\% 08-15-2049
UNITED STATES TREASURY BOND 2.75\% DUE 11-15-2047
UNITED STATES TREASURY BOND 2.875\% DUE 08-15-2045 REG
UNITED STATES TREASURY BOND 3\% DUE 02-15-2047 REG
UNITED STATES TREASURY BOND 3\% DUE 02-15-2049
UNITED STATES TREASURY BOND 3\% DUE 05-15-2047 REG
UNITED STATES TREASURY BOND 3\% DUE 08-15-2048
UNITED STATES TREASURY BOND 3\% DUE 11-15-2044 REG
UNITED STATES TREASURY BOND 4.25\% DUE 11-15-2040
UNITED STATES TREASURY BOND 6.125\% BOND DUE 08-15-2029
UNITED STATES TREASURY BOND STRIPPED PRIN 08-15-2042 REG
UNITED STATES TREASURY BOND STRIPPED PRIN PMT 05-15-2043REG
UNITED STATES TREASURY BOND STRIPPED PRIN PMT 08-15-2043
UNITED STATES TREASURY BOND STRIPPED PRIN PMT DUE 02-15-2043
UNITED STATES TREASURY BOND UNITED STATES 5.25\%
UNITED STATES TREASURY NOTES 10/31/2019 1.625\% DUE 10-31-2026
UNITED STATES TREASURY SEC STRIPPED INT PMT00523 05-15-2030 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00528 02-15-2031 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00833 08-15-2031 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00837 08-15-2033 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00838 02-15-2034 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00840 02-15-2035 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00881 11-15-2030 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00882 05-15-2031
UNITED STATES TREASURY SEC STRIPPED INT PMT00883 11-15-2031 (UNDDATE) REG UNITED STATES TREASURY SEC STRIPPED INT PMT00888 05-15-2034 (UNDDATE) REG TOTAL U.S. GOVERNMENT SECURITIES

FOREIGN GOVERNMENT SECURITIES
ARGENTINA REP BD 5.875\% DUE 01-11-2028 REG
ARGENTINA REP BD 6.875\% DUE 01-26-2027 REG
HASHEMITE KINGDOM JORDAN GOVT GTD NT 3/A2 3\% DUE 06-30-2025 BEO
MDC GMTN B V GLOBAL GTD MEDIUM TERM NTS TRANCHE \# TR 00010 3.7 11-07-2049 PETROLEOS 5.5\% DUE 06-27-2044
PETROLEOS MEXICANOS 6.375\% 01-23-2045
PETROLEOS MEXICANOS 6.5\% 03-13-2027
PVTPL EMIRATE ABU DHABI 3.125\% 09-30-2049
PVTPL PETROLEOS MEXICANOS 7.69\% DUE 01-23-2050/09-23-2019 BEO
REP OF GHANA MTN 8.95\% DUE 03-26-2051
REPUBLIC OF COLOMBIA 5.625 02-26-2044 REG
REPUBLIC OF INDONESIA 4.35\% DUE 01-11-2048 REG
REPUBLICA ORIENTAL DEL URUGUAY SR NT 5.1\% DUE 06-18-2050 REG
STATE OF ISRAEL BD 4.125\% DUE 01-17-2048REG
STATE OF QATAR 144A 4.817\% 03-14-2049
UTD MEXICAN STS \# TR 00020 6.05\% DUE 01-11-2040
UTD MEXICAN STS TRANCHE \# TR 00026 4.75\% DUE 03-08-2044
TOTAL FOREIGN GOVERNMENT SECURITIES
MUNICIPAL BONDS
AMERN MUN PWR OH INC REV 6.27 DUE 02-15-2050
CALIFORNIA ST 7.3\% 10-01-2039 BEO TAXABLE
IL ST TAXABLE-PENSION 5.1 DUE 06-01-2033BEO TAXABLE SINKING FD 06-01-2024 N/C MISSOURI ST HEALTH \& EDL FACS AUTH EDL FACS REV 3.652\% 08-15-2057 BEO TAXABLE
NEW JERSEY ST TPK AUTH TPK REV 7.102\% 01-01-2041 BEO TAXABLE
PORT AUTH N Y \& N J 4.458\% 10-01-2062 BEO TAXABLE
PORT AUTH N Y \& N J 4.81\% 10-15-2065 BEOTAXABLE
PORT AUTH N Y \& N J 4 96\% 08-01-2046 BEOTAXABLE
SAN DIEGO CNTY CALIF WTR AUTH FING AGY WTR REV 6.138\% 05-01-2049 BEO TAXABLE
UNIVERSITY CALIF REVS $4.767 \%$ 05-15-2115 BEO TAXABLE
UNIVERSITY CALIF REVS 4.858\% 05-15-2112 BEO TAXABLE
UNIVERSITY VA UNIV REVS 4.179\% 09-01-2117 BEO TAXABLE
TOTAL MUNICIPAL BONDS

$3,416,535$

$1,270,000$
$1,454,000$
70,000
$4,595,000$
90,000
10,000
$20,595,000$
855,000
$4,790,000$
275,000
90,000
$5,955,000$
$2,245,000$
$10,150,000$
$1,500,000$
$1,028,000$
$11,097,000$
$3,197,000$
917,000
$4,220,000$
942,000
$2,340,000$
130,000
886,000
$27,061,000$
$10,000,000$
$10,000,000$
$10,572,000$
560,000
550,000
220,000
$4,500,000$
\$
\$ 3,416,535

1,016,867
1,154,261
68,444
4,582,974
89,764
10,095
$20,791,296$
951,522
5,419,436
320,171
105,367
6,933,155
2,623,142
11,708,580
2,039,004
1,426,752
6,719,200
1,897,138
541,355
2,521,237
1,220,332
2,323,821
106,206
711,548
21,434,243
7,527,584
7,427,504
7,652,518
451,569
438,297
173,184
$\frac{3,319,648}{3,706,214}$

47,580
48,600
909,409
205,176
105,780
138,566
83,489
263,034
75,058
195,800
244,800
249,699
65,670
231,700
247,210
424,050
222,360
$3,727,981$

259,382
815,474
123,772
87,159
234,227
391,290
79,743
43,612
145,051
90,097
148,668

| CORPORATE DEBT SECURITIES |  |  |  |
| :---: | :---: | :---: | :---: |
| 3M CO 3.25\% DUE 08-26-2049 | 20,000 | 19,538 | 19,818 |
| 3M CO 4.0\% 09-14-2048 | 190,000 | 190,194 | 213,033 |
| ABBOTT LABS 4.75\% DUE 11-30-2036 | 70,000 | 74,618 | 87,151 |
| ABBOTT LABS 4.9\% DUE 11-30-2046 | 140,000 | 144,208 | 185,936 |
| ABBVIE INC 4.45\% DUE 05-14-2046 | 20,000 | 20,306 | 21,505 |
| ABBVIE INC FIXED 4.7\% DUE 05-14-2045 | 65,000 | 64,038 | 72,272 |
| ABU DHABI NATL 4.875\% DUE 04-23-2030 | 200,000 | 202,280 | 227,500 |
| ACTAVIS FDG SCS 4.55\% DUE 03-15-2035 | 110,000 | 107,014 | 119,813 |
| ADVENTIST HLTH 3.63\% DUE 03-01-2049 | 20,000 | 20,000 | 19,798 |
| AEP TRANSM CO LLC 3.15\% DUE 09-15-2049 | 20,000 | 19,854 | 19,946 |
| AEP TRANSM CO LLC 3.8\% DUE 06-15-2049 | 80,000 | 79,531 | 88,507 |
| AETNA INC NEW 3.875\% DUE 08-15-2047 | 90,000 | 84,598 | 90,737 |
| AHS HOSP CORP 5.024\% DUE 07-01-2045 | 40,000 | 44,767 | 50,987 |
| ALTRIA GROUP INC 5.8\% DUE 02-14-2039 | 270,000 | 269,496 | 317,321 |
| ALTRIA GROUP INC 5.95\% DUE 02-14-2049 | 350,000 | 357,735 | 421,666 |
| ALTRIA GROUP INC 6.2\% DUE 02-14-2059 | 230,000 | 235,803 | 276,397 |
| AMAZON COM INC 4.05\% 08-22-2047 | 145,000 | 144,431 | 173,274 |
| AMAZON COM INC FIXED 3.875\% DUE 08-22-2037 | 140,000 | 139,651 | 159,480 |
| AMERN INTL GROUP 4.5\% DUE 07-16-2044 | 85,000 | 86,950 | 97,061 |
| AMERN INTL GROUP 4.75\% DUE 04-01-2048 | 65,000 | 64,618 | 77,708 |
| AMGEN INC 4.563\% DUE 06-15-2048 | 120,000 | 119,689 | 140,081 |
| ANGLO AMERN CAP 4.75\% DUE 04-10-2027 | 200,000 | 195,230 | 217,571 |
| ANHEUSER BUSCH 5.8\% DUE 01-23-2059 | 490,000 | 488,261 | 689,667 |
| ANHEUSER BUSCH INBEV WOR 5.55\% 01-23-2049 | 380,000 | 379,089 | 503,996 |
| ANHEUSER-BUSCH 4.375\% DUE 04-15-2038 | 60,000 | 57,746 | 67,643 |
| ANHEUSER-BUSCH 4.6\% DUE 04-15-2048 | 145,000 | 144,179 | 168,237 |
| ANHEUSER-BUSCH COS LLC CORP 4.7\% 02-01-2036 | 95,000 | 94,241 | 110,613 |
| ANHEUSER-BUSCH COS LLC CORP 4.9\% 02-01-2046 | 190,000 | 196,640 | 228,222 |
| ANTHEM INC 4.375\% 12-01-2047 | 120,000 | 120,369 | 131,543 |
| ANTHEM INC 4.55\% 03-01-2048 | 30,000 | 29,178 | 33,870 |
| APACHE CORP 5.1\% DUE 09-01-2040 | 325,000 | 318,860 | 317,031 |
| APACHE CORP 5.25\% DUE 02-01-2042 | 90,000 | 91,054 | 89,450 |
| APACHE CORP FIXED 4.25\% DUE 01-15-2044 | 415,000 | 373,042 | 363,937 |
| APACHE FIN CDA 7.75\% DUE 12-15-2029 | 15,000 | 21,385 | 18,589 |
| APPLE INC 3.45\% DUE 02-09-2045 | 245,000 | 229,280 | 259,198 |
| APPLE INC 3.85\% DUE 08-04-2046 | 70,000 | 67,129 | 79,106 |
| ARCELORMITTAL 4.55\% DUE 03-11-2026 | 110,000 | 109,746 | 115,300 |
| ARCELORMITTAL STEP CPN 6.75\% DUE 03-01-2041 | 90,000 | 101,413 | 106,444 |
| ARCELORMITTAL STEP CPN 7\% DUE 10-15-2039 | 60,000 | 67,289 | 72,547 |
| AT\&T INC 4.35\% DUE 06-15-2045 | 105,000 | 91,834 | 112,072 |
| AT\&T INC 4.5\% DUE 03-09-2048 | 335,000 | 293,633 | 364,823 |
| AT\&T INC 4.8\% DUE 06-15-2044 | 430,000 | 406,504 | 485,711 |
| AT\&T INC 5.25\% DUE 03-01-2037 | 150,000 | 149,426 | 178,440 |
| AT\&T INC 5.35\% DUE 09-01-2040 | 10,000 | 10,894 | 11,965 |
| AT\&T INC 6.35\% DUE 03-15-2040 | 170,000 | 198,476 | 222,415 |
| AVOLON HLDGS FDG 4.375\% DUE 05-01-2026 | 50,000 | 49,763 | 52,745 |
| B A T CAP CORP 4.39\% 08-15-2037 | 165,000 | 165,000 | 163,542 |
| B A T CAP CORP 4.54\% 08-15-2047 | 105,000 | 99,825 | 102,465 |
| BANK AMER CORP 3.974\% 02-07-2030 | 90,000 | 97,961 | 98,381 |
| BANK AMER CORP 4.33\% 03-15-2050 | 60,000 | 60,000 | 72,219 |
| BANK AMER CORP 5\% DUE 01-21-2044 | 50,000 | 52,139 | 65,239 |
| BANK AMER CORP BNDS 4.443\% 01-20-2048 | 235,000 | 239,562 | 285,549 |
| BANK AMER CORP FLTG RT 3.593\% DUE 07-21-2028 | 230,000 | 219,553 | 243,990 |
| BANK OF AMERICA CORP 4.271\% 07-23-2029 | 190,000 | 189,991 | 211,429 |
| BARCLAYS PLC FLTG RT 5.088\% DUE 06-20-2030 | 260,000 | 260,641 | 283,582 |
| BARRICK N AMER FIN 5.75\% DUE 05-01-2043 | 105,000 | 113,083 | 135,764 |
| BARRICK PD 5.95\% DUE 10-15-2039 | 85,000 | 86,739 | 108,997 |
| BECTON DICKINSON \& 4.669\% DUE 06-06-2047 | 120,000 | 118,867 | 144,472 |
| BECTON DICKINSON \& 4.685\% DUE 12-15-2044 | 94,000 | 92,377 | 110,932 |
| BERKSHIRE HATHAWAY FIN CORP 4.2\% DUE 08-15-2048 REG | 350,000 | 347,981 | 412,827 |
| BLACKSTONE HLDGS 4.45\% DUE 07-15-2045 | 30,000 | 27,860 | 33,805 |
| BOEING CO 3.375\% DUE 06-15-2046 | 140,000 | 125,720 | 140,458 |
| BOEING CO 3.65\% DUE 03-01-2047 | 90,000 | 83,592 | 94,429 |
| BOEING CO 3.75\% DUE 02-01-2050 | 10,000 | 9,916 | 10,806 |
| BOEING CO 3.9\% 05-01-2049 | 30,000 | 29,489 | 33,325 |
| BOEING CO FIXED 3.95\% DUE 08-01-2059 | 190,000 | 190,555 | 208,432 |
| BOEING CO SR NT 5.875 DUE 02-15-2040 | 60,000 | 74,893 | 81,234 |
| BRISTOL MYERS 3.4\% DUE 07-26-2029 | 70,000 | 69,423 | 75,115 |
| BRITISH TELECOMMUNICATIONS P L C NT STEPUP 12-15-2030 12-12-2000 | 65,000 | 97,891 | 99,378 |
| BURL NORTHN DEB 5.05 DUE 03-01-2041 | 50,000 | 54,983 | 62,169 |
| BURLINGTON NORTHN SANTA 4.55 09-01-2044 | 55,000 | 62,053 | 66,521 |
| CA INST TECH 4.7\% DUE 11-01-2111 | 30,000 | 30,714 | 38,615 |
| CALIFORNIA INSTITUTE OF TECHNOLOGY 3.65\%09-01-2119 | 120,000 | 119,696 | 119,951 |
| CAROLINA PWR \& LT 4.1 DUE 05-15-2042 | 20,000 | 19,663 | 22,982 |
| CATERPILLAR INC 3.803\% DUE 08-15-2042 | 25,000 | 24,233 | 28,271 |
| CATERPILLAR INC 4.75\% DUE 05-15-2064 | 45,000 | 45,913 | 57,228 |
| CATHOLIC HEALTH INITIATI 4.35 DUE 11-01-2042 | 100,000 | 90,846 | 104,201 |
| CDN NAT RES LTD 6.25\% DUE 03-15-2038 | 95,000 | 112,308 | 120,295 |
| CENTENE CORP DEL 4.75\% DUE 01-15-2025 | 50,000 | 51,438 | 51,944 |
| CENTERPOINT ENERGY 4.5\% DUE 04-01-2044 | 60,000 | 63,373 | 73,143 |
| CENTERPOINT ENERGY HOUSTON ELEC LLC 4.25\% 02-01-2049 | 50,000 | 49,697 | 60,364 |
| CHARTER 5.375\% 05-01-2047 | 270,000 | 260,348 | 300,717 |
| CHARTER 6.384\% DUE 10-23-2035 | 10,000 | 10,742 | 12,476 |
| CHARTER 6.484\% DUE 10-23-2045 | 250,000 | 270,525 | 309,911 |
| CHARTER COMMUNICATIONS OPER LLC CAP 5.125\% DUE 07-01-2049 BEO | 60,000 | 59,928 | 64,934 |
| CHARTER FIXED 5.75\% DUE 04-01-2048 | 430,000 | 427,901 | 497,923 |
| CIGNA CORP NEW CORP 4.8\% 08-15-2038 | 220,000 | 219,780 | 254,539 |
| CIGNA CORP NEW CORP 4.9\% 12-15-2048 | 180,000 | 179,615 | 213,220 |
| CIMAREX ENERGY CO 3.9\% 05-15-2027 | 60,000 | 57,265 | 61,151 |
| CITIGROUP INC 4.125\% DUE 07-25-2028 | 130,000 | 125,442 | 141,297 |
| CITIGROUP INC 4.45\% DUE 09-29-2027 | 305,000 | 306,238 | 335,686 |



CIIGROUP INC 6\% DUE 10-31-2033
CITIGROUP INC 8.125\% DUE 07-15-2039
CITIGROUP INC NEW 2.976\% DUE 11-05-2030
CITY OF HOPE 4.378\% DUE 08-15-2048
CITY OF HOPE 5.623\% DUE 11-15-2043
CLEV CLINIC FNDTN 4.858\% DUE 01-01-2114
CME GROUP INC 5.3\% 09-15-2043
CN LT \& PWR CO 4.3\% DUE 04-15-2044
COLGATE-PALMOLIVE CO 3.7\% DUE 08-01-2047
COMCAST CORP 4.7\% 10-15-2048
COMCAST CORP NEW 3.9\% DUE 03-01-2038
COMCAST CORP NEW 4.049\% DUE 11-01-2052
COMCAST CORP NEW 4.6\% 10-15-2038
COMCAST CORP NEW 4.65\% DUE 07-15-2042
COMCAST CORP NEW 4.95\% DUE 10-15-2058
COMCAST CORP NEW FIXED 3.999\% DUE 11-01-2049
COMMONWEALTH EDISON 4.0\% DUE 03-01-2049 BEO
COMMONWEALTH EDISON CO 3.75\% 08-15-2047
COMMONWEALTH EDISON CO 4.0\% DUE 03-01-2048 REG
COMWLTH EDISON CO 3.65\% DUE 06-15-2046
CONCHO RES INC 4.85\% DUE 08-15-2048
CONCHO RES INC 4.875\% DUE 10-01-2047
CONOCOPHILLIPS 5.9\% DUE 05-15-2038
CONS EDISON CO N Y 4.625\% DUE 12-01-2054
CONTL RES INC 4.375\% DUE 01-15-2028
COOPERATIEVE 5.25\% DUE 05-24-2041
CORNING INC 3.9\% DUE 11-15-2049
CR SUISSE 1ST BSTN 7.125\% DUE 07-15-2032
CR SUISSE GROUP AG 6.375\% DUE 12-29-2999
CVS HEALTH CORP 3\% DUE 08-15-2026
CVS HEALTH CORP 3.25\% DUE 08-15-2029
CVS HEALTH CORP 4.78\% DUE 03-25-2038
CVS HEALTH CORP 5.05\% DUE 03-25-2048
CVS HEALTH CORP 5.125\% DUE 07-20-2045
DEERE \& CO 2.875\% DUE 09-07-2049
DELTA AIR LINES INC DEL 3.75\% DUE 10-28-2029
DEUTSCHE TELEKOM STEP CPN 8.75\% DUE 06-15-2030
DEVON ENERGY CORP 5.6 DUE 07-15-2041
DEVON ENERGY CORP FIXED 5\% DUE 06-15-2045
DH EUROPE FIN II S 3.4\% DUE 11-15-2049
DH EUROPE FIN II S FIXED 3.25\% 11-15-2039
DISNEY WALT CO SR NT 6.65\% 11-15-2037
DOMINION RES INC 5.95\% DUE 06-15-2035
DTE ELEC CO 3.75\% DUE 08-15-2047
DUKE ENERGY 3.875\% DUE 03-15-2046
DUKE ENERGY FLA 3.4\% DUE 10-01-2046
DUKE ENERGY FLA 4.2\% DUE 07-15-2048
DUKE ENERGY IND 4.9 DUE 07-15-2043
DUKE ENERGY IND 6.35\% DUE 08-15-2038
DUKE ENERGY IND LLC 3.25\% DUE 10-01-2049
DUKE UNIV HLTH SYS 3.92\% DUE 06-01-2047
EATON CORP OHIO 4.15 DUE 11-02-2042 REG
ECOPETROL S A 5.875\% DUE 05-28-2045
EL PASO PIPELN 4.7\% DUE 11-01-2042
ENERGY TRANSFER 6.625\% DUE 10-15-2036
ENTERPRISE PRODS 4.2\% DUE 01-31-2050
ENTERPRISE PRODS 4.85\% DUE 03-15-2044
ENTERPRISE PRODS 6.45\% DUE 09-01-2040
ENTERPRISE PRODS FIXED 4.9\% DUE 05-15-2046
ENTERPRISE PRODS OPER LLC 4.8\% 02-01-2049
ESC GCB LEHMAN BRTH HLD D12/21/07 6.750\% JD17 ESCROW
ESC LEHMAN BROTH HLD INC D05/17/07 5.857 MN56
ESC MNLEHMAN BRTHRS HLDGRR 6.875\%
ESC MNLEHMAN BRTHRS HLDGRR VAR
ESTEE LAUDER COMPANIES INC 2.375\% DUE 12-01-2029
ESTEE LAUDER COS FIXED 3.125\% DUE 12-01-2049
EXELON CORP 5.625\% DUE 06-15-2035
EXXON MOBIL CORP 2.995\% DUE 08-16-2039
EXXON MOBIL CORP 3.095\% DUE 08-16-2049
EXXON MOBIL CORP 4.114\% DUE 03-01-2046
FIRSTENERGY CORP 4.85\% 07-15-2047
FIRSTENERGY CORP 7.375\% DUE 11-15-2031
FL PWR \& LT CO 3.15\% DUE 10-01-2049
FLORIDA PWR CORP 6.35\% DUE 09-15-2037
FLORIDA PWR CORP 6.4\% DUE 06-15-2038
FORD MTR CO DEL NT 4.75 01-15-2043
GEN ELEC CAP CORP 6.15\% DUE 08-07-2037
GEN ELEC CAP CORP MEDIUM TERM NTS BO TRANCHE \# TR 008186.875 DUE 01-10-2039
GENERAL MTRS CO 5.95\% DUE 04-01-2049
GENERAL MTRS CO 6.75\% DUE 04-01-2046
GILEAD SCIENCES 4\% DUE 09-01-2036
GILEAD SCIENCES 4.15\% DUE 03-01-2047
GILEAD SCIENCES 4.75\% DUE 03-01-2046
GILEAD SCIENCES 5.65\% DUE 12-01-2041
GLAXOSMITHKLINE 6.375\% DUE 05-15-2038
GLENCORE FDG LLC 3.875\% DUE 10-27-2027
GLENCORE FDG LLC 4\% DUE 03-27-2027
GOLDMAN SACHS 5.15\% DUE 05-22-2045
GOLDMAN SACHS 6.25\% DUE 02-01-2041
GOLDMAN SACHS 6.25\% DUE 02-01-2041
GUARDIAN LIFE INS 4.85\% DUE 01-24-2077

| HACKENSACK 4.211\% 07-01-2048 | 100,000 | 98,714 | 116,151 |
| :---: | :---: | :---: | :---: |
| HALLIBURTON CO 4.85\% DUE 11-15-2035 | 220,000 | 230,341 | 244,057 |
| HALLIBURTON CO 5\% DUE 11-15-2045 | 200,000 | 211,599 | 223,288 |
| HARRIS CORP DEL 4.854\% DUE 04-27-2035 | 190,000 | 194,718 | 225,490 |
| HARRIS CORP DEL 5.054\% DUE 04-27-2045 | 90,000 | 94,202 | 112,792 |
| HCA INC 4.125\% 06-15-2029 | 100,000 | 99,497 | 105,350 |
| HCA INC 5.125\% 06-15-2039 | 50,000 | 49,543 | 55,303 |
| HCA INC 5.25\% DUE 06-15-2049 | 50,000 | 51,665 | 56,268 |
| HCA INC 5.5\% DUE 06-15-2047 | 110,000 | 111,401 | 127,268 |
| HOME DEPOT INC 3.9\% DUE 06-15-2047 | 70,000 | 64,866 | 79,837 |
| HOME DEPOT INC 4.25\% DUE 04-01-2046 | 150,000 | 160,553 | 177,929 |
| HOME DEPOT INC 4.5\% DUE 12-06-2048 | 50,000 | 49,151 | 62,453 |
| HOME DEPOT INC 4.875 DUE 02-15-2044 | 110,000 | 125,613 | 140,212 |
| HSBC HLDGS PLC 4.583\% 06-19-2029 | 285,000 | 285,437 | 315,818 |
| HSBC HLDGS PLC 6.5\% DUE 09-15-2037 | 240,000 | 286,390 | 325,993 |
| HSBC HLDGS PLC FIXED 3.973\% 05-22-2030 | 200,000 | 200,000 | 213,835 |
| HSBC HLDGS PLC FLTG RT 2.633\% DUE 11-07-2025 | 200,000 | 200,000 | 199,345 |
| HSBC HOLDINGS PLC 4.041\% 03-13-2028 | 200,000 | 194,292 | 212,707 |
| HUMANA INC 3.125\% 08-15-2029 | 80,000 | 80,323 | 81,221 |
| HUMANA INC 4.625 DUE 12-01-2042 | 55,000 | 57,133 | 61,788 |
| HUMANA INC 4.8\% DUE 03-15-2047 | 190,000 | 194,613 | 223,713 |
| HUMANA INC 4.95\% DUE 10-01-2044 | 40,000 | 41,647 | 46,842 |
| HUMANA INC FIXED 3.95\% DUE 08-15-2049 | 70,000 | 69,744 | 73,285 |
| INDIANA UNIV HEALTH INC 3.97\% BNDS 11-01-2048 | 70,000 | 68,958 | 81,319 |
| INTEL CORP 3.734\% 12-08-2047 BEO | 47,000 | 42,403 | 51,638 |
| INTERCONTINENTAL 4.25\% DUE 09-21-2048 | 175,000 | 173,387 | 207,575 |
| JOHNSON \& JOHNSON 3.7\% DUE 03-01-2046 | 300,000 | 302,048 | 341,579 |
| JOHNSON \& JOHNSON 3.75\% DUE 03-03-2047 | 290,000 | 291,381 | 333,265 |
| JPMORGAN CHASE \& 4.005\% DUE 04-23-2029 | 250,000 | 245,813 | 274,147 |
| JPMORGAN CHASE \& 4.95\% DUE 06-01-2045 | 360,000 | 378,870 | 454,181 |
| JPMORGAN CHASE \& CO 2.739\% DUE 10-15-2030 | 90,000 | 90,000 | 89,792 |
| JPMORGAN CHASE \& CO 3.964\% DUE 11-15-2048 | 50,000 | 48,623 | 56,832 |
| JPMORGAN CHASE \& CO 4.452\% 12-05-2029 | 170,000 | 170,000 | 192,592 |
| JPMORGAN CHASE \& CO BNDS 4.26\% 02-22-2048 | 185,000 | 191,793 | 219,792 |
| KAISER FNDTN HOSPS 3.266\% DUE 11-01-2049 | 120,000 | 120,174 | 121,141 |
| KAISER FNDTN HOSPS 4.15\% DUE 05-01-2047 | 65,000 | 64,841 | 75,748 |
| KEYCORP 2.55\% 10-01-2029 BEO | 40,000 | 39,968 | 39,128 |
| KIMBERLY CLARK 3.9\% DUE 05-04-2047 | 70,000 | 67,121 | 79,319 |
| KINDER MORGAN INC 5.55\% DUE 06-01-2045 | 140,000 | 147,575 | 164,484 |
| KRAFT HEINZ FOODS 5.2\% DUE 07-15-2045 | 5,000 | 5,076 | 5,393 |
| KROGER CO 4.65\% 01-15-2048 | 40,000 | 37,951 | 43,858 |
| LAS VEGAS SANDS 3.5\% DUE 08-18-2026 | 240,000 | 239,076 | 244,024 |
| LEHMAN TRADEABLE CLAIM BLACKROCK - LBI | 92,257 | - | 38,748 |
| LLOYDS BKG GROUP 3.75\% DUE 01-11-2027 | 140,000 | 132,622 | 147,588 |
| LLOYDS BKG GROUP 5.3\% DUE 12-01-2045 | 210,000 | 215,498 | 252,646 |
| LLOYDS BKG GROUP FLTG RT 3.574\% 11-07-2028 | 130,000 | 123,847 | 134,302 |
| LOCKHEED MARTIN CORP 4.09\% 09-15-2052 | 111,000 | 104,824 | 130,595 |
| M D C HLDGS INC 6\% DUE 01-15-2043 | 70,000 | 68,225 | 71,190 |
| MA INST TECH 5.6\% DUE 07-01-2111 | 50,000 | 63,529 | 80,681 |
| MAGELLAN MIDSTREAM 4.2\% DUE 10-03-2047 | 110,000 | 101,386 | 115,639 |
| MAGELLAN MIDSTREAM 4.25\% DUE 09-15-2046 | 50,000 | 47,224 | 53,247 |
| MAGELLAN MIDSTREAM PARTNERS LP 4.85\%02-01-2049 REG | 50,000 | 49,686 | 57,526 |
| MAYO CLINIC 3.774\% DUE 11-15-2043 | 20,000 | 18,428 | 22,012 |
| MCDONALDS CORP 4.45\% DUE 03-01-2047 REG | 125,000 | 127,722 | 144,902 |
| MCDONALDS CORP 4.7\% DUE 12-09-2035 | 55,000 | 54,823 | 65,782 |
| MCDONALDS CORP 4.875\% DUE 12-09-2045 | 180,000 | 189,710 | 220,908 |
| MCDONALD'S CORP FIXED 4.45\% DUE 09-01-2048 | 95,000 | 93,940 | 110,833 |
| MEDTRONIC INC 4.625\% DUE 03-15-2045 | 35,000 | 37,030 | 44,838 |
| MEMORIAL SLOAN-KETTERING CANCER CTR TAXABLE BD SER 2012A 4.125 7-1-52 | 30,000 | 29,594 | 35,747 |
| MERCK \& CO INC NEW 3.9\% 03-07-2039 | 30,000 | 29,687 | 34,697 |
| MERCK \& CO INC NEW 4.0\% 03-07-2049 | 100,000 | 98,691 | 119,098 |
| MERRILL LYNCH \& CO 6.11\% DUE 01-29-2037 | 290,000 | 333,468 | 387,079 |
| METLIFE INC 6.4\% DUE 12-15-2066 | 120,000 | 127,500 | 146,976 |
| MICROSOFT CORP 3.7\% DUE 08-08-2046 | 455,000 | 458,435 | 520,153 |
| MICROSOFT CORP 3.75\% DUE 02-12-2045 | 80,000 | 77,748 | 91,683 |
| MICROSOFT CORP 3.95\% DUE 08-08-2056 | 40,000 | 37,337 | 46,999 |
| MICROSOFT CORP 4.1\% DUE 02-06-2037 | 240,000 | 247,333 | 283,800 |
| MIDAMERICAN ENERGY 6.125\% DUE 04-01-2036 | 240,000 | 291,086 | 332,007 |
| MIDAMERICAN ENERGY CO 3.15\% DUE 04-15-2050 | 70,000 | 69,605 | 70,810 |
| MIDAMERICAN ENERGY CO 3.65\% 08-01-2048 | 130,000 | 128,865 | 143,111 |
| MIDAMERICAN ENERGY CO 3.95\% 08-01-2047 | 85,000 | 84,056 | 97,698 |
| MIDAMERICAN ENERGY CO 4.25\% 07-15-2049 | 50,000 | 49,695 | 60,701 |
| MORGAN STANLEY 4.375\% DUE 01-22-2047 | 170,000 | 176,621 | 206,996 |
| MPLX LP 4.7\% 04-15-2048 | 220,000 | 218,566 | 218,768 |
| MPLX LP 5.5\% DUE 02-15-2049 | 30,000 | 29,409 | 33,034 |
| MPLX LP FIXED 5.2\% DUE 03-01-2047 | 25,000 | 24,826 | 26,367 |
| MPT OPER 4.625\% DUE 08-01-2029 | 40,000 | 39,800 | 41,949 |
| NATIONWIDE FINL 3.9\% DUE 11-30-2049 | 80,000 | 79,606 | 81,875 |
| NESTLE HLDGS INC 4\% DUE 09-24-2048 | 160,000 | 157,699 | 187,165 |
| NEVADA PWR CO 3.7\% DUE 05-01-2029 | 60,000 | 59,770 | 65,458 |
| NEW YORK \& 4.024\% DUE 08-01-2045 | 40,000 | 47,798 | 45,942 |
| NOBLE ENERGY INC 4.95\% DUE 08-15-2047 | 60,000 | 57,614 | 63,957 |
| NOBLE ENERGY INC 5.05\% DUE 11-15-2044 | 30,000 | 29,914 | 31,928 |
| NOBLE ENERGY INC 5.25\% DUE 11-15-2043 | 125,000 | 127,478 | 135,556 |
| NOBLE ENERGY INC 6\% DUE 03-01-2041 | 30,000 | 33,912 | 35,441 |
| NORFOLK SOUTHN CORP 4.15\% 02-28-2048 | 40,000 | 38,698 | 45,214 |
| NORFOLK SOUTHN FIXED 4.05\% DUE 08-15-2052 | 135,000 | 132,015 | 150,687 |
| NORTHERN STS PWR CO MINN 3.6\% 09-15-2047 | 115,000 | 111,108 | 125,766 |
| NORTHN STS PWR CO 2.9\% DUE 03-01-2050 | 110,000 | 107,878 | 106,939 |
| NORTHROP GRUMMAN 4.03\% DUE 10-15-2047 | 290,000 | 271,023 | 325,374 |
| NORTHWELL HEALTHCARE INC 4.26\% 11-01-2047 | 20,000 | 19,766 | 21,997 |
| NRG ENERGY INC 4.45\% DUE 06-15-2029 | 20,000 | 19,974 | 21,085 |

NUCOR CORP 4.4\% DUE 05-01-2048
OCCIDENTAL PETE 4.1\% DUE 02-15-2047
OCCIDENTAL PETE 4.2\% DUE 03-15-2048
OCCIDENTAL PETE 4.4\% DUE 04-15-2046
OCCIDENTAL PETE 6.2\% DUE 03-15-2040
OCCIDENTAL PETE 7.5\% DUE 05-01-2031
OCCIDENTAL PETE 7.95\% DUE 06-15-2039
OCCIDENTAL PETE CORP SR NT 6.45\% 09-15-2036
OCCIDENTAL PETE CORP SR NT 6.6\% 03-15-2046
OCCIDENTAL PETE FIXED 4.5\% DUE 07-15-2044
OCCIDENTAL PETROLEUM CORP 3.5\% DUE 08-15-2029/08-08-2019 REG
OCCIDENTAL PETROLEUM CORP 4.3\% DUE 08-15-2039
OCCIDENTAL PETROLEUM CORP 4.4\% DUE 08-15-2049
ONCOR ELEC DELIVERY CO LLC 3.1\% 09-15-2049
ORACLE CORP 4\% DUE 07-15-2046
ORLANDO HEALTH INC 4.089\% DUE 10-01-2048
PEACEHEALTH 4.787\% DUE 11-15-2048
PEPSICO INC 3.45\% DUE 10-06-2046
PEPSICO INC 4.25\% DUE 10-22-2044
PETROBRAS GLOBAL 7.375\% DUE 01-17-2027
PETROBRAS GLOBAL FIN B V 6.9\% 03-19-2049
PFIZER INC 4.125\% DUE 12-15-2046
PHILIP MORRIS INTERNATIONAL INC 3.875 BDS DUE 08-21-2042 USD1000
PIEDMONT NAT GAS 3.64\% DUE 11-01-2046
PROCTER \& GAMBLE FIXED 3.5\% DUE 10-25-2047
PRUDENTIAL FINL INC 3.7\% DUE 03-13-2051 REG
PRUDENTIAL FINL INC 4.6 DUE 05-15-2044 REG
PVT PLBNP PARIBAS SR NON PFD 5.198\% 01-10-2030
PVTPL FOX CORP 5.476\% 01-25-2039
PVTPL ABBVIE INC 3.2\% DUE 11-21-2029
PVTPL ABBVIE INC 4.05\% DUE 11-21-2039
PVTPL ABBVIE INC SR NT 144A 4.25\% DUE 11-21-2049/11-21-2019
PVTPL ALCOA NEDERLAND HOLDING 6.125\% 05-15-2028
PVTPL ALCON FIN CORP 3.8\% DUE 09-23-2049BEO
PVTPL BRISTOL MYERS SQUIBB CO 4.35\% DUE 11-15-204
PVTPL BRISTOL MYERS SQUIBB CO 4.125\% 06-15-2039
PVTPL BRISTOL MYERS SQUIBB CO 4.25\% 10-26-2049
PVTPL BRISTOL MYERS SQUIBB CO 5\% DUE 08-15-2045/11-22-2019 BEO
PVTPL CARLYLE FIN L L C SR NT 144A 5.65\%DUE 09-15-2048
PVTPL CARLYLE FIN SUBSIDIARY LLC S 3.5\% 09-19-2029
PVTPL CARLYLE HLDGS II FIN L L C SR NT 144A 5.625\% DUE 03-30-2043 BEO PVTPL CENTENE CORP 4.25\% 12-15-2027
PVTPL CENTENE CORP DEL 4.625\% DUE 12-15-2029
PVTPL CIGNA CORP NEW NT 3.875\% DUE 10-15-2047
PVTPL COMMONWEALTH BK AUSTRALIA SR NT 144A 3.743\% DUE 09-12-2039 BEO
PVTPL DANSKE BK A/S 3.244\% DUE 12-20-2025
PVTPL DANSKE BK A/S 5.375\% DUE 01-12-2024
PVTPL FIDELITY \& GUARANTY LIFE HOLD. INC5.5\% DUE 05-01-2025 BEO PVTPL FOX CORP 5.576\% 01-25-2049
PVTPL HEINZ H J FIN CO GTD NT 144A 7.125\% DUE 08-01-2039 BEO
PVTPL INTESA SANPAOLO S P A RCPTS CL X 144A 4.375\% DUE 01-12-2048 BEO
PVTPL KKR GROUP FIN CO III LLC SR NT 144A 5.125 DUE 06-01-2044/05-29-2014 BEO
PVTPL KKR GROUP FIN CO VI LLC SR NT 144A3.75\% DUE 07-01-2029/07-01-2019 BEO
PVTPL MARS INC 3.6\% DUE 04-01-2034 BEO
PVTPL MARS INC DEL 3.875\% 04-01-2039
PVTPL MARS INC DEL FIXED 3.95\% 04-01-2049 BEO
PVTPL MARS INC DEL NT 144A 4.2\% DUE 04-01-2059/03-29-2019 BEO
PVTPL MASS MUTUAL LIFE INS CO SURPLUS NT 4.9\% DUE 04-01-2077
PVTPL MELCO RESORTS FIN LTD 5.375\% DUE 12-04-2029 BEO
PVTPL NEW YORK LIFE INS CO SURPLUS NT 4.45\% 05-15-2069
PVTPL NORTHWESTERN MUT LIFE INS CO 3.625\% 09-30-205
PVTPL NORTHWESTERN MUT LIFE INS CO SURPLUS 3.85\% 09-30-2047
PVTPL NRG ENERGY INC 144A 3.75\% 06-15-2024
PVTPL SANTANDER UK GROUP HLDGS PLC 5.625\% DUE 09-15-2045 BEO
PVTPL SOUTHERN NAT GAS CO L L C 03-15-2047
PVTPL TEVA PHARMACEUTICAL FIN NETH III B V 7.125\% DUE 01-31-2025 BEO
PVTPL UBS GROUP AG SR 3.126\% 08-13-2030
PVTPL UBS GROUP FDG SWITZ AG CONV CORP 7.0\% 12-31-2049
PVTPL UNION PAC CORP 3.839\% DUE 03-20-2060
PVTPL XSTRATA FIN CDA LTD GTD NT 5.3 DUE10-25-2042 BEO
PVTPL XSTRATA FIN CDA LTD NT 6 DUE 11-15-2041 BEO
RAYMOND JAMES FINL 4.95\% DUE 07-15-2046
REPUBLIC SVCS INC 6.2\% DUE 03-01-2040
ROYAL BK SCOTLAND FLTG RT 5.076\% DUE 01-27-2030
S\&P GLOBAL INC 2.5\% DUE 12-01-2029
S\&P GLOBAL INC 3.25\% DUE 12-01-2049
SAN DIEGO GAS \& 3.75\% DUE 06-01-2047
SANDS CHINA LTD FIXED 4.6\% 08-08-2023
SHELL INTERNATIONAL FIN 4.375\% DUE 05-11-2045
SHELL INTL FIN B V 4\% DUE 05-10-2046
SHELL INTL FIN B V 6.375\% DUE 12-15-2038
SOUTHERN CAL EDISON 3.6\% 02-01-2045
SOUTHERN CALIF EDISON CO 4.65 DUE 10-01-2043
SOUTHN CAL EDISON 4\% DUE 04-01-2047
SOUTHN CAL EDISON 5.5\% DUE 03-15-2040
SOUTHN COPPER CORP 5.25\% DUE 11-08-2042
SOUTHN NAT GAS CO 8\% DUE 03-01-2032
SOUTHWESTERN PUBLIC SERVICE 08-09-2017 3.7\% DUE 08-15-2047 BEO
SPCL1 GEN ELEC CAP CORP 5.875\% DUE 01-14-2038
STATOIL ASA 3.95 DUE 05-15-2043
SUNOCO LOGISTICS 5.35\% DUE 05-15-2045
SUZANO AUSTRIA 7\% DUE 03-16-2047

| 20,000 | 19,654 | 23,148 |
| :---: | :---: | :---: |
| 260,000 | 252,275 | 247,767 |
| 40,000 | 39,327 | 38,862 |
| 80,000 | 81,122 | 79,378 |
| 170,000 | 188,446 | 202,009 |
| 55,000 | 73,838 | 71,739 |
| 10,000 | 13,523 | 13,871 |
| 125,000 | 152,218 | 151,996 |
| 285,000 | 332,259 | 365,732 |
| 300,000 | 275,528 | 299,329 |
| 60,000 | 59,955 | 60,588 |
| 60,000 | 60,109 | 60,705 |
| 30,000 | 29,708 | 30,465 |
| 80,000 | 79,597 | 79,936 |
| 320,000 | 305,444 | 358,064 |
| 95,000 | 90,820 | 107,404 |
| 30,000 | 30,000 | 38,043 |
| 160,000 | 145,739 | 172,299 |
| 30,000 | 30,135 | 35,941 |
| 100,000 | 101,020 | 120,073 |
| 70,000 | 70,000 | 80,059 |
| 160,000 | 159,859 | 189,139 |
| 200,000 | 192,274 | 210,470 |
| 60,000 | 53,695 | 59,964 |
| 80,000 | 74,487 | 91,045 |
| 10,000 | 9,932 | 10,398 |
| 155,000 | 161,343 | 182,564 |
| 200,000 | 200,000 | 235,625 |
| 210,000 | 212,930 | 258,347 |
| 360,000 | 359,910 | 365,275 |
| 270,000 | 269,047 | 281,460 |
| 610,000 | 607,451 | 641,041 |
| 200,000 | 206,826 | 215,500 |
| 200,000 | 199,644 | 210,329 |
| 15,000 | 14,960 | 17,726 |
| 120,000 | 119,590 | 138,637 |
| 150,000 | 148,737 | 178,144 |
| 95,000 | 97,243 | 121,945 |
| 50,000 | 50,316 | 59,562 |
| 70,000 | 69,889 | 69,468 |
| 100,000 | 98,989 | 116,954 |
| 30,000 | 29,748 | 30,863 |
| 60,000 | 60,000 | 62,925 |
| 90,000 | 88,449 | 90,884 |
| 200,000 | 200,000 | 199,825 |
| 200,000 | 200,000 | 201,677 |
| 260,000 | 259,475 | 285,523 |
| 90,000 | 89,464 | 95,400 |
| 180,000 | 182,652 | 229,378 |
| 125,000 | 145,011 | 161,842 |
| 230,000 | 179,998 | 223,428 |
| 180,000 | 178,918 | 214,303 |
| 10,000 | 9,972 | 10,616 |
| 30,000 | 29,890 | 33,370 |
| 140,000 | 140,455 | 157,940 |
| 30,000 | 30,325 | 34,510 |
| 60,000 | 59,608 | 69,841 |
| 140,000 | 137,928 | 175,599 |
| 200,000 | 200,000 | 204,106 |
| 90,000 | 89,489 | 106,936 |
| 80,000 | 79,771 | 81,636 |
| 230,000 | 212,111 | 248,641 |
| 40,000 | 39,988 | 41,236 |
| 440,000 | 456,192 | 533,714 |
| 50,000 | 54,321 | 56,553 |
| 200,000 | 200,000 | 203,500 |
| 200,000 | 200,000 | 203,015 |
| 280,000 | 280,000 | 303,450 |
| 190,000 | 161,068 | 193,476 |
| 355,000 | 354,022 | 383,749 |
| 170,000 | 177,580 | 190,339 |
| 110,000 | 112,483 | 131,024 |
| 30,000 | 37,865 | 41,426 |
| 200,000 | 200,000 | 229,748 |
| 10,000 | 9,983 | 10,052 |
| 90,000 | 89,316 | 91,615 |
| 90,000 | 82,514 | 93,652 |
| 270,000 | 269,835 | 285,865 |
| 40,000 | 39,600 | 48,202 |
| 170,000 | 166,875 | 195,856 |
| 110,000 | 143,426 | 159,625 |
| 40,000 | 39,846 | 39,502 |
| 110,000 | 114,116 | 124,928 |
| 60,000 | 56,192 | 63,114 |
| 115,000 | 142,405 | 140,426 |
| 190,000 | 191,406 | 213,942 |
| 120,000 | 154,994 | 173,111 |
| 70,000 | 67,952 | 75,212 |
| 90,000 | 94,349 | 110,307 |
| 40,000 | 40,673 | 45,172 |
| 305,000 200,000 | 308,337 219,640 | 315,522 231,000 |

TARGET CORP 3.625\% DUE 04-15-2046
TARGET CORP 4\% DUE 07-01-2042
115,000
TEACHERS INS \& 4.27\% DUE 05-15-2047
TELEFONICA 7.045\% DUE 06-20-2036
40,000

TEXAS INSTRS INC 3.875\% 03-15-2039
TEXAS INSTRS INC 4.15\% DUE 05-15-2048
TIME WARNER CABLE 5.875\% DUE 11-15-2040
TIME WARNER CABLE 6.55\% DUE 05-01-2037
TIME WARNER CABLE 6.75\% DUE 06-15-2039
TIME WARNER CABLE 7.3\% DUE 07-01-2038
TRANSCONT GAS PIPE LINE 4.6\% DUE 03-15-2048
TRANSCONTINENTAL GAS PIPE LINE CO LLC 4.45 DUE 08-01-2042 REG
TRAVELERS COS INC 4.1\% 03-04-2049
TRCNTNTL GAS PIPE 5.4 DUE 08-15-2041
U S BANCORP FIXED 3\% 07-30-2029
UNICREDIT SPA 7.296\% DUE 04-02-2034
UNION PAC CORP 4.05\% DUE 03-01-2046
UNION PAC CORP 4.375\% DUE 11-15-2065
UNION PACIFIC CORP 3.6\% DUE 09-15-2037
UNITEDHEALTH GROUP 2.875\% DUE 08-15-2029
UNITEDHEALTH GROUP 3.5\% DUE 08-15-2039
UNITEDHEALTH GROUP 3.7\% DUE 08-15-2049
UNITEDHEALTH GROUP 3.875\% DUE 08-15-2059
UNITEDHEALTH GROUP 4.75\% DUE 07-15-2045
UNITEDHEALTH GROUP FIXED 4.25\% DUE 06-15-2048
UNIV SOUTHN CAL 5.25\% DUE 10-01-2111
UTD TECHNOLOGIES 4.05\% DUE 05-04-2047
UTD TECHNOLOGIES 4.5\% DUE 06-01-2042
UTD TECHNOLOGIES 4.625\% DUE 11-16-2048
UTD TECHNOLOGIES NT 5.7 DUE 04-15-2040
VA ELEC \& PWR CO 3.8\% DUE 09-15-2047
VERIZON 4.125\% DUE 08-15-2046
VERIZON 4.75\% DUE 11-01-2041
VERIZON COMMUNICATIONS 4.522\% 09-15-2048
VERIZON COMMUNICATIONS 6.55 BDS DUE 09-15-2043 USD2000 BEO
VERIZON COMMUNICATIONS BNDS 5.25\% DUE 03-16-2037 REG
VISA INC 4.3\% DUE 12-14-2045
VODAFONE GROUP PLC 5.25\% DUE 05-30-2048 WALMART INC 2.95\% DUE 09-24-2049
WALMART INC 4.05\% DUE 06-29-2048 REG
WAL-MART STORES 4.3 DUE 04-22-2044
WASTE MGMT INC DEL 3.45\% DUE 06-15-2029
WASTE MGMT INC DEL 4.0\% DUE 07-15-2039
WASTE MGMT INC DEL FIXED 4.15\% 07-15-2049
WELLPOINT INC 5.1\% DUE 01-15-2044
WELLS FARGO \& CO 4.75\% DUE 12-07-2046
WELLS FARGO \& CO 4.9\% DUE 11-17-2045
WELLS FARGO \& CO 5.375\% DUE 11-02-2043
WELLS FARGO \& CO 5.606\% DUE 01-15-2044 WELLS FARGO \& CO FIXED 2.879\% DUE 10-30-2030 WESLEYAN UNIV CONN 4.781\% DUE 07-01-2116 WESTERN GAS PARTNERS LP 4.75\% 08-15-2028 WESTN GAS PARTNERS 5.3\% 03-01-2048 WESTN GAS PARTNERS 5.45\% DUE 04-01-2044 WESTN GAS PARTNERS 5.5\% DUE 08-15-2048 WILLIAMS COS INC 5.75\% DUE 06-24-2044 WILLIAMS COS INC 8.75\% DUE 03-15-2032 WILLIAMS PARTNERS 5.1\% DUE 09-15-2045 WILLIAMS PARTNERS 6.3\% DUE 04-15-2040
WILLIS-KNIGHTON 4.813\% DUE 09-01-2048
WYETH NT 5.95 DUE 04-01-2037/03-27-2007 BEO
YAMANA GOLD INC FIXED 4.625\% 12-15-2027

## TOTAL CORPORATE DEBT SECURITIES

## COMMON STOCK

CARILLION ORD GBP0.50
CENTROSOLAR GROUP NPV
CIRCLE OIL ORD EUR0.01
DMX TECHNOLOGIES GROUP
DELISTED
FERROGLOBE REPRESENTING SPINOFF EX-DATED11/15/16 HELD AT AGENT K1 VENTURES
PETROPLUS HOLDINGS CHF7.58 (REGD)

## TOTAL COMMON STOCK

SHORT-TERM INVESTMENTS AND COMMON COLLECTIVE TRUSTS
AQR EMERGING MARKETS EQUITY COLLECTIVE INVESTMENT TRUST ARROWSTREET INT EQ ACWI EX US FUND
DOUBLELINE LONG DURATION TOTAL RETURN FUND
FIAM SMALL/MID CAP CORE COMMINGLED POOL
L\&G LONG DURATION U.S. CREDIT CIT FUND

* NORTHERN TRUST COLLECTIVE S\&P500 INDEX FUND-NON LENDING
* NORTHERN TRUST COLLECTIVE SHORT TERM INVESTMENT FUND WELLINGTON II OPPORTUNISTIC EMERGING MARKETS DEBT PORTFOLIO

TOTAL SHORT-TERM INVESTMENTS AND COMMON COLLECTIVE TRUSTS

## POOLED SEPARATE ACCOUNT

PRIVEST

1,848,000
272,944

## 1,906,496

249,724
344,368
4,616,542 2,112,199


| REGISTERED INVESTMENT COMPANIES |  |  |  |
| :---: | :---: | :---: | :---: |
| HARBOR FDS DIVERSIFIED INTL ALL CAP FD INSTL CL | 3,663,775 | 40,444,131 | 41,730,393 |
| PIMCO FDS INCOME FD INSTL CL | 2,368,842 | 28,113,157 | 28,355,038 |
| TOTAL REGISTERED INVESTMENT COMPANIES |  | 68,557,288 | 70,085,431 |
| PARTNERSHIP |  |  |  |
| INVICTUS OPPORTUNITY FUND II, L.P. | 2,726,838 | 2,726,838 | 2,270,117 |
| HEDGE FUNDS |  |  |  |
| HILDENE OPPORTUNITIES OFFSHORE FUND II, LTD. CL A SER 36 | 15,840 | 15,840,000 | 15,876,907 |
| HILDENE OPPORTUNITIES OFFSHORE FUND, LTD. CL LSER 56-OCT 2018 | 15,840 | 15,840,000 | 16,048,296 |
| TOTAL HEDGE FUNDS |  | 31,680,000 | 31,925,203 |
| COLLATERAL HELD UNDER SECURITIES LENDING AGREEMENTS |  |  |  |
| * CASH COLLATERAL - NT COLLECTIVE SL CORE S/T INV FUND | Restricted securities | 59,185,369 | 59,185,369 |
| TOTAL |  | $\underline{\text { \$ 558,856,742 }}$ | \$ 629,686,913 |

* A party in interest as defined by ERISA.

| Identity of Party (a) | Description of Asset (b) |
| :---: | :---: |
| Single transactions |  |
| Purchases: | Arrowstreet Int Eq ACWI Ex US CIT Cl A |
|  | * Northern Trust Collective Short Term Investment Fund |
| Sales: | Arrowstreet Int Eq ACWI Ex US CIT Cl A |
|  | * Northern Trust Collective Short Term Investment Fund |
| Series transactions |  |
| Purchases: | * Northern Trust Collective Short Term Investment Fund 231 Transactions |
| Sales: | * Northern Trust Collective Short Term Investment Fund 82 Transactions |
| Purchases: | U.S. Treasury Bond, 2.875\% Due 5/15/49 45 Transactions |
| Sales: | U.S. Treasury Bond, 2.875\% Due 5/15/49 32 Transactions |
| Purchases: | U.S. Treasury Bond, 3\% Due 2/15/49 50 Transactions |
| Sales: | U.S. Treasury Bond, 3\% Due 2/15/49 31 Transactions |
| Purchases: | Wisconsin Treasury Sec 3.375\% Due 11/15/48 43 Transactions |
| Sales: | Wisconsin Treasury Sec 3.375\% Due 11/15/48 32 Transactions |


|  | Purchase Price (c) |  | Selling Price (d) |  | Lease <br> Rental (e) |  | Expenses (f) |  | Cost (g) |  | Current <br> Value (h) |  | Net Gain/ (Loss) (i) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ | 40,701,419 | \$ | - | \$ | - | \$ | - | \$ | 40,701,419 | \$ | 40,701,419 | \$ | - |
|  | 40,701,419 |  | - |  | - |  | - |  | 40,701,419 |  | 40,701,419 |  | - |
|  | - |  | 40,701,419 |  | - |  | - |  | 39,600,000 |  | 40,701,419 |  | 1,101,419 |
|  | - |  | 40,701,419 |  | - |  | - |  | 40,701,419 |  | 40,701,419 |  | - |
|  | 83,587,531 |  | - |  | - |  | - |  | 83,587,531 |  | 83,587,531 |  | - |
|  | - |  | 84,622,360 |  | - |  | - |  | 84,622,360 |  | 84,622,360 |  | - |
| 23,786,401 |  |  | - |  | - |  | - |  | 23,786,401 |  | 23,786,401 |  | - |
|  | - |  | 22,736,802 |  | - |  | - |  | 23,786,401 |  | 22,736,802 |  | $(1,049,599)$ |
| 21,026,123 |  |  | - |  | - |  | - |  | 21,026,123 |  | 21,026,123 |  | - |
| - |  |  | 23,759,174 |  | - |  | - |  | 20,928,171 |  | 23,759,174 |  | 2,831,003 |
| 20,107,188 |  |  | - |  | - |  | - |  | 20,107,188 |  | 20,107,188 |  | - |
| - |  |  | 20,621,498 |  | - |  | - |  | 20,107,188 |  | 20,621,498 |  | 514,310 |

* A party in interest as defined by ERISA


## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i-SCHEDULE OF REPORTABLE TRANSACTIONS
FOR THE PERIOD FROM DECEMBER 1, 2018 THROUGH NOVEMBER 30, 2019
Employer Identification Number: 13-2618477, Plan Number 001

| Identity of Party (a) |  | Description of Asset (b) |
| :---: | :--- | :--- |
| Single transactions <br> Purchases: |  | Arrowstreet Int Eq ACWI Ex US CIT Cl A |
|  | * Northern Trust Collective Short Term Investment Fund |  |
| Sales: | Arrowstreet Int Eq ACWI Ex US CIT Cl A |  |


|  | Purchase Price (c) |  | Selling <br> Price (d) |  | $\begin{gathered} \text { Lease } \\ \text { Rental (e) } \\ \hline \end{gathered}$ | Expenses (f) |  | Cost (g) |  | Current <br> Value (h) |  | Net Gain/ $(\text { Loss })(\mathbf{i})$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| \$ | 40,701,419 | \$ | - | \$ | - | \$ | \$ | 40,701,419 | \$ | 40,701,419 | \$ | - |
|  | 40,701,419 |  | - |  | - | - |  | 40,701,419 |  | 40,701,419 |  | - |
|  | - |  | 40,701,419 |  | - | - |  | 39,600,000 |  | 40,701,419 |  | 1,101,419 |
|  | - |  | 40,701,419 |  | - | - |  | 40,701,419 |  | 40,701,419 |  | - |
|  | 83,587,531 |  | - |  | - | - |  | 83,587,531 |  | 83,587,531 |  | - |
|  | - |  | 84,622,360 |  | - | - |  | 84,622,360 |  | 84,622,360 |  | - |
|  | 23,786,401 |  | - |  | - | - |  | 23,786,401 |  | 23,786,401 |  | - |
|  | - |  | 22,736,802 |  | - | - |  | 23,786,401 |  | 22,736,802 |  | $(1,049,599)$ |
|  | 21,026,123 |  | - |  | - | - |  | 21,026,123 |  | 21,026,123 |  | - |
|  | - |  | 23,759,174 |  | - | - |  | 20,928,171 |  | 23,759,174 |  | 2,831,003 |
|  | 20,107,188 |  | - |  | - | - |  | 20,107,188 |  | 20,107,188 |  | - |
|  | - |  | 20,621,498 |  | - | - |  | 20,107,188 |  | 20,621,498 |  | 514,310 |

* A party in interest as defined by ERISA


## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001


## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001

| (a) | (b) Identity of Issuer, Borrower, Lessor, or Similar Party | (c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: | :---: |
| CORPORATE DEBT SECURITIES |  |  |  |  |
|  | 3M CO 3.25\% DUE 08-26-2049 | 20,000 | 19,538 | 19,818 |
|  | 3M CO 4.0\% 09-14-2048 | 190,000 | 190,194 | 213,033 |
|  | ABBOTT LABS 4.75\% DUE 11-30-2036 | 70,000 | 74,618 | 87,151 |
|  | ABBOTT LABS 4.9\% DUE 11-30-2046 | 140,000 | 144,208 | 185,936 |
|  | ABBVIE INC 4.45\% DUE 05-14-2046 | 20,000 | 20,306 | 21,505 |
|  | ABBVIE INC FIXED 4.7\% DUE 05-14-2045 | 65,000 | 64,038 | 72,272 |
|  | ABU DHABI NATL 4.875\% DUE 04-23-2030 | 200,000 | 202,280 | 227,500 |
|  | ACTAVIS FDG SCS 4.55\% DUE 03-15-2035 | 110,000 | 107,014 | 119,813 |
|  | ADVENTIST HLTH 3.63\% DUE 03-01-2049 | 20,000 | 20,000 | 19,798 |
|  | AEP TRANSM CO LLC 3.15\% DUE 09-15-2049 | 20,000 | 19,854 | 19,946 |
|  | AEP TRANSM CO LLC 3.8\% DUE 06-15-2049 | 80,000 | 79,531 | 88,507 |
|  | AETNA INC NEW 3.875\% DUE 08-15-2047 | 90,000 | 84,598 | 90,737 |
|  | AHS HOSP CORP 5.024\% DUE 07-01-2045 | 40,000 | 44,767 | 50,987 |
|  | ALTRIA GROUP INC 5.8\% DUE 02-14-2039 | 270,000 | 269,496 | 317,321 |
|  | ALTRIA GROUP INC 5.95\% DUE 02-14-2049 | 350,000 | 357,735 | 421,666 |
|  | ALTRIA GROUP INC 6.2\% DUE 02-14-2059 | 230,000 | 235,803 | 276,397 |
|  | AMAZON COM INC 4.05\% 08-22-2047 | 145,000 | 144,431 | 173,274 |
|  | AMAZON COM INC FIXED 3.875\% DUE 08-22-2037 | 140,000 | 139,651 | 159,480 |
|  | AMERN INTL GROUP 4.5\% DUE 07-16-2044 | 85,000 | 86,950 | 97,061 |
|  | AMERN INTL GROUP 4.75\% DUE 04-01-2048 | 65,000 | 64,618 | 77,708 |
|  | AMGEN INC 4.563\% DUE 06-15-2048 | 120,000 | 119,689 | 140,081 |
|  | ANGLO AMERN CAP 4.75\% DUE 04-10-2027 | 200,000 | 195,230 | 217,571 |
|  | ANHEUSER BUSCH 5.8\% DUE 01-23-2059 | 490,000 | 488,261 | 689,667 |
|  | ANHEUSER BUSCH INBEV WOR 5.55\% 01-23-2049 | 380,000 | 379,089 | 503,996 |
|  | ANHEUSER-BUSCH 4.375\% DUE 04-15-2038 | 60,000 | 57,746 | 67,643 |
|  | ANHEUSER-BUSCH 4.6\% DUE 04-15-2048 | 145,000 | 144,179 | 168,237 |
|  | ANHEUSER-BUSCH COS LLC CORP 4.7\% 02-01-2036 | 95,000 | 94,241 | 110,613 |
|  | ANHEUSER-BUSCH COS LLC CORP 4.9\% 02-01-2046 | 190,000 | 196,640 | 228,222 |
|  | ANTHEM INC 4.375\% 12-01-2047 | 120,000 | 120,369 | 131,543 |
|  | ANTHEM INC 4.55\% 03-01-2048 | 30,000 | 29,178 | 33,870 |
|  | APACHE CORP 5.1\% DUE 09-01-2040 | 325,000 | 318,860 | 317,031 |
|  | APACHE CORP 5.25\% DUE 02-01-2042 | 90,000 | 91,054 | 89,450 |
|  | APACHE CORP FIXED 4.25\% DUE 01-15-2044 | 415,000 | 373,042 | 363,937 |
|  | APACHE FIN CDA 7.75\% DUE 12-15-2029 | 15,000 | 21,385 | 18,589 |
|  | APPLE INC 3.45\% DUE 02-09-2045 | 245,000 | 229,280 | 259,198 |
|  | APPLE INC 3.85\% DUE 08-04-2046 | 70,000 | 67,129 | 79,106 |
|  | ARCELORMITTAL 4.55\% DUE 03-11-2026 | 110,000 | 109,746 | 115,300 |
|  | ARCELORMITTAL STEP CPN 6.75\% DUE 03-01-2041 | 90,000 | 101,413 | 106,444 |
|  | ARCELORMITTAL STEP CPN 7\% DUE 10-15-2039 | 60,000 | 67,289 | 72,547 |
|  | AT\&T INC 4.35\% DUE 06-15-2045 | 105,000 | 91,834 | 112,072 |
|  | AT\&T INC 4.5\% DUE 03-09-2048 | 335,000 | 293,633 | 364,823 |
|  | AT\&T INC 4.8\% DUE 06-15-2044 | 430,000 | 406,504 | 485,711 |
|  | AT\&T INC 5.25\% DUE 03-01-2037 | 150,000 | 149,426 | 178,440 |
|  | AT\&T INC 5.35\% DUE 09-01-2040 | 10,000 | 10,894 | 11,965 |
|  | AT\&T INC 6.35\% DUE 03-15-2040 | 170,000 | 198,476 | 222,415 |
|  | AVOLON HLDGS FDG 4.375\% DUE 05-01-2026 | 50,000 | 49,763 | 52,745 |
|  | B A T CAP CORP 4.39\% 08-15-2037 | 165,000 | 165,000 | 163,542 |
|  | B A T CAP CORP 4.54\% 08-15-2047 | 105,000 | 99,825 | 102,465 |
|  | BANK AMER CORP 3.974\% 02-07-2030 | 90,000 | 97,961 | 98,381 |
|  | BANK AMER CORP 4.33\% 03-15-2050 | 60,000 | 60,000 | 72,219 |
|  | BANK AMER CORP 5\% DUE 01-21-2044 | 50,000 | 52,139 | 65,239 |
|  | BANK AMER CORP BNDS 4.443\% 01-20-2048 | 235,000 | 239,562 | 285,549 |
|  | BANK AMER CORP FLTG RT 3.593\% DUE 07-21-2028 | 230,000 | 219,553 | 243,990 |
|  | BANK OF AMERICA CORP 4.271\% 07-23-2029 | 190,000 | 189,991 | 211,429 |
|  | BARCLAYS PLC FLTG RT 5.088\% DUE 06-20-2030 | 260,000 | 260,641 | 283,582 |
|  | BARRICK N AMER FIN 5.75\% DUE 05-01-2043 | 105,000 | 113,083 | 135,764 |
|  | BARRICK PD 5.95\% DUE 10-15-2039 | 85,000 | 86,739 | 108,997 |
|  | BECTON DICKINSON \& 4.669\% DUE 06-06-2047 | 120,000 | 118,867 | 144,472 |
|  | BECTON DICKINSON \& 4.685\% DUE 12-15-2044 | 94,000 | 92,377 | 110,932 |
|  | BERKSHIRE HATHAWAY FIN CORP 4.2\% DUE 08-15-2048 REG | 350,000 | 347,981 | 412,827 |
|  | BLACKSTONE HLDGS 4.45\% DUE 07-15-2045 | 30,000 | 27,860 | 33,805 |
|  | BOEING CO 3.375\% DUE 06-15-2046 | 140,000 | 125,720 | 140,458 |
|  | BOEING CO 3.65\% DUE 03-01-2047 | 90,000 | 83,592 | 94,429 |
|  | BOEING CO 3.75\% DUE 02-01-2050 | 10,000 | 9,916 | 10,806 |
|  | BOEING CO 3.9\% 05-01-2049 | 30,000 | 29,489 | 33,325 |
|  | BOEING CO FIXED 3.95\% DUE 08-01-2059 | 190,000 | 190,555 | 208,432 |
|  | BOEING CO SR NT 5.875 DUE 02-15-2040 | 60,000 | 74,893 | 81,234 |
|  | BRISTOL MYERS 3.4\% DUE 07-26-2029 | 70,000 | 69,423 | 75,115 |
|  | BRITISH TELECOMMUNICATIONS P L C NT STEPUP 12-15-2030 12-12-2000 | 65,000 | 97,891 | 99,378 |
|  | BURL NORTHN DEB 5.05 DUE 03-01-2041 | 50,000 | 54,983 | 62,169 |
|  | BURLINGTON NORTHN SANTA 4.55 09-01-2044 | 55,000 | 62,053 | 66,521 |
|  | CA INST TECH 4.7\% DUE 11-01-2111 | 30,000 | 30,714 | 38,615 |
|  | CALIFORNIA INSTITUTE OF TECHNOLOGY 3.65\%09-01-2119 | 120,000 | 119,696 | 119,951 |
|  | CAROLINA PWR \& LT 4.1 DUE 05-15-2042 | 20,000 | 19,663 | 22,982 |

## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001

| (a) | (b) Identity of Issuer, Borrower, Lessor, or Similar Party | Interest, Collateral, Par or Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: | :---: |
|  | CATERPILLAR INC 3.803\% DUE 08-15-2042 | 25,000 | 24,233 | 28,271 |
|  | CATERPILLAR INC 4.75\% DUE 05-15-2064 | 45,000 | 45,913 | 57,228 |
|  | CATHOLIC HEALTH INITIATI 4.35 DUE 11-01-2042 | 100,000 | 90,846 | 104,201 |
|  | CDN NAT RES LTD 6.25\% DUE 03-15-2038 | 95,000 | 112,308 | 120,295 |
|  | CENTENE CORP DEL 4.75\% DUE 01-15-2025 | 50,000 | 51,438 | 51,944 |
|  | CENTERPOINT ENERGY 4.5\% DUE 04-01-2044 | 60,000 | 63,373 | 73,143 |
|  | CENTERPOINT ENERGY HOUSTON ELEC LLC 4.25\% 02-01-2049 | 50,000 | 49,697 | 60,364 |
|  | CHARTER 5.375\% 05-01-2047 | 270,000 | 260,348 | 300,717 |
|  | CHARTER 6.384\% DUE 10-23-2035 | 10,000 | 10,742 | 12,476 |
|  | CHARTER 6.484\% DUE 10-23-2045 | 250,000 | 270,525 | 309,911 |
|  | CHARTER COMMUNICATIONS OPER LLC CAP 5.125\% DUE 07-01-2049 BEO | 60,000 | 59,928 | 64,934 |
|  | CHARTER FIXED 5.75\% DUE 04-01-2048 | 430,000 | 427,901 | 497,923 |
|  | CIGNA CORP NEW CORP 4.8\% 08-15-2038 | 220,000 | 219,780 | 254,539 |
|  | CIGNA CORP NEW CORP 4.9\% 12-15-2048 | 180,000 | 179,615 | 213,220 |
|  | CIMAREX ENERGY CO 3.9\% 05-15-2027 | 60,000 | 57,265 | 61,151 |
|  | CITIGROUP INC 4.125\% DUE 07-25-2028 | 130,000 | 125,442 | 141,297 |
|  | CITIGROUP INC 4.45\% DUE 09-29-2027 | 305,000 | 306,238 | 335,686 |
|  | CITIGROUP INC 4.65\% DUE 07-23-2048 | 130,000 | 131,004 | 161,400 |
|  | CITIGROUP INC 6\% DUE 10-31-2033 | 30,000 | 33,740 | 38,018 |
|  | CITIGROUP INC 8.125\% DUE 07-15-2039 | 480,000 | 690,960 | 795,147 |
|  | CITIGROUP INC NEW 2.976\% DUE 11-05-2030 | 110,000 | 110,000 | 111,156 |
|  | CITY OF HOPE 4.378\% DUE 08-15-2048 | 50,000 | 48,969 | 58,811 |
|  | CITY OF HOPE 5.623\% DUE 11-15-2043 | 95,000 | 109,572 | 129,978 |
|  | CLEV CLINIC FNDTN 4.858\% DUE 01-01-2114 | 25,000 | 25,914 | 31,870 |
|  | CME GROUP INC 5.3\% 09-15-2043 | 70,000 | 85,436 | 95,195 |
|  | CN LT \& PWR CO 4.3\% DUE 04-15-2044 | 10,000 | 10,119 | 12,120 |
|  | COLGATE-PALMOLIVE CO 3.7\% DUE 08-01-2047 | 100,000 | 94,565 | 116,578 |
|  | COMCAST CORP 4.7\% 10-15-2048 | 240,000 | 240,482 | 298,002 |
|  | COMCAST CORP NEW 3.9\% DUE 03-01-2038 | 160,000 | 147,998 | 177,529 |
|  | COMCAST CORP NEW 4.049\% DUE 11-01-2052 | 309,000 | 275,363 | 349,165 |
|  | COMCAST CORP NEW 4.6\% 10-15-2038 | 240,000 | 239,696 | 288,367 |
|  | COMCAST CORP NEW 4.65\% DUE 07-15-2042 | 10,000 | 10,263 | 12,086 |
|  | COMCAST CORP NEW 4.95\% DUE 10-15-2058 | 310,000 | 310,041 | 404,901 |
|  | COMCAST CORP NEW FIXED 3.999\% DUE 11-01-2049 | 80,000 | 70,929 | 89,574 |
|  | COMMONWEALTH EDISON 4.0\% DUE 03-01-2049 BEO | 50,000 | 49,593 | 57,290 |
|  | COMMONWEALTH EDISON CO 3.75\% 08-15-2047 | 100,000 | 92,918 | 109,708 |
|  | COMMONWEALTH EDISON CO 4.0\% DUE 03-01-2048 REG | 30,000 | 29,075 | 34,222 |
|  | COMWLTH EDISON CO 3.65\% DUE 06-15-2046 | 130,000 | 127,623 | 139,679 |
|  | CONCHO RES INC 4.85\% DUE 08-15-2048 | 40,000 | 39,799 | 44,759 |
|  | CONCHO RES INC 4.875\% DUE 10-01-2047 | 10,000 | 11,207 | 11,157 |
|  | CONOCOPHILLIPS 5.9\% DUE 05-15-2038 | 95,000 | 113,526 | 129,201 |
|  | CONS EDISON CO N Y 4.625\% DUE 12-01-2054 | 85,000 | 87,016 | 102,659 |
|  | CONTL RES INC 4.375\% DUE 01-15-2028 | 140,000 | 137,714 | 144,659 |
|  | COOPERATIEVE 5.25\% DUE 05-24-2041 | 100,000 | 116,390 | 138,400 |
|  | CORNING INC 3.9\% DUE 11-15-2049 | 60,000 | 59,832 | 61,134 |
|  | CR SUISSE 1ST BSTN 7.125\% DUE 07-15-2032 | 40,000 | 49,999 | 58,343 |
|  | CR SUISSE GROUP AG 6.375\% DUE 12-29-2999 | 200,000 | 200,000 | 214,000 |
|  | CVS HEALTH CORP 3\% DUE 08-15-2026 | 50,000 | 49,944 | 51,167 |
|  | CVS HEALTH CORP 3.25\% DUE 08-15-2029 | 90,000 | 89,187 | 91,404 |
|  | CVS HEALTH CORP 4.78\% DUE 03-25-2038 | 300,000 | 298,576 | 340,764 |
|  | CVS HEALTH CORP 5.05\% DUE 03-25-2048 | 480,000 | 488,148 | 567,902 |
|  | CVS HEALTH CORP 5.125\% DUE 07-20-2045 | 195,000 | 197,607 | 230,381 |
|  | DEERE \& CO 2.875\% DUE 09-07-2049 | 90,000 | 90,161 | 86,912 |
|  | DELTA AIR LINES INC DEL 3.75\% DUE 10-28-2029 | 70,000 | 69,717 | 69,195 |
|  | DEUTSCHE TELEKOM STEP CPN 8.75\% DUE 06-15-2030 | 90,000 | 131,990 | 132,459 |
|  | DEVON ENERGY CORP 5.6 DUE 07-15-2041 | 20,000 | 21,192 | 24,313 |
|  | DEVON ENERGY CORP FIXED 5\% DUE 06-15-2045 | 270,000 | 268,612 | 315,422 |
|  | DH EUROPE FIN II S 3.4\% DUE 11-15-2049 | 50,000 | 49,878 | 51,482 |
|  | DH EUROPE FIN II S FIXED 3.25\% 11-15-2039 | 70,000 | 69,866 | 70,963 |
|  | DISNEY WALT CO SR NT 6.65\% 11-15-2037 | 80,000 | 102,815 | 118,670 |
|  | DOMINION RES INC 5.95\% DUE 06-15-2035 | 85,000 | 100,859 | 108,527 |
|  | DTE ELEC CO 3.75\% DUE 08-15-2047 | 90,000 | 84,432 | 100,949 |
|  | DUKE ENERGY 3.875\% DUE 03-15-2046 | 170,000 | 180,746 | 189,513 |
|  | DUKE ENERGY FLA 3.4\% DUE 10-01-2046 | 115,000 | 112,141 | 118,283 |
|  | DUKE ENERGY FLA 4.2\% DUE 07-15-2048 | 55,000 | 54,924 | 63,859 |
|  | DUKE ENERGY IND 4.9 DUE 07-15-2043 | 15,000 | 16,662 | 18,809 |
|  | DUKE ENERGY IND 6.35\% DUE 08-15-2038 | 30,000 | 39,485 | 43,004 |
|  | DUKE ENERGY IND LLC 3.25\% DUE 10-01-2049 | 50,000 | 48,882 | 50,208 |
|  | DUKE UNIV HLTH SYS 3.92\% DUE 06-01-2047 | 30,000 | 29,034 | 34,356 |
|  | EATON CORP OHIO 4.15 DUE 11-02-2042 REG | 140,000 | 132,712 | 158,646 |
|  | ECOPETROL S A 5.875\% DUE 05-28-2045 | 85,000 | 83,915 | 97,325 |
|  | EL PASO PIPELN 4.7\% DUE 11-01-2042 | 90,000 | 81,424 | 94,346 |
|  | ENERGY TRANSFER 6.625\% DUE 10-15-2036 | 95,000 | 111,496 | 112,261 |
|  | ENTERPRISE PRODS 4.2\% DUE 01-31-2050 | 30,000 | 29,938 | 32,102 |
|  | ENTERPRISE PRODS 4.85\% DUE 03-15-2044 | 70,000 | 71,181 | 80,067 |
|  | ENTERPRISE PRODS 6.45\% DUE 09-01-2040 | 235,000 | 302,959 | 315,697 |

## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001


## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001

| (a) | (b) Identity of Issuer, Borrower, Lessor, or Similar Party | Interest, Collateral, Par or Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: | :---: |
|  | LLOYDS BKG GROUP 3.75\% DUE 01-11-2027 | 140,000 | 132,622 | 147,588 |
|  | LLOYDS BKG GROUP 5.3\% DUE 12-01-2045 | 210,000 | 215,498 | 252,646 |
|  | LLOYDS BKG GROUP FLTG RT 3.574\% 11-07-2028 | 130,000 | 123,847 | 134,302 |
|  | LOCKHEED MARTIN CORP 4.09\% 09-15-2052 | 111,000 | 104,824 | 130,595 |
|  | M D C HLDGS INC 6\% DUE 01-15-2043 | 70,000 | 68,225 | 71,190 |
|  | MA INST TECH 5.6\% DUE 07-01-2111 | 50,000 | 63,529 | 80,681 |
|  | MAGELLAN MIDSTREAM 4.2\% DUE 10-03-2047 | 110,000 | 101,386 | 115,639 |
|  | MAGELLAN MIDSTREAM 4.25\% DUE 09-15-2046 | 50,000 | 47,224 | 53,247 |
|  | MAGELLAN MIDSTREAM PARTNERS LP 4.85\%02-01-2049 REG | 50,000 | 49,686 | 57,526 |
|  | MAYO CLINIC 3.774\% DUE 11-15-2043 | 20,000 | 18,428 | 22,012 |
|  | MCDONALDS CORP 4.45\% DUE 03-01-2047 REG | 125,000 | 127,722 | 144,902 |
|  | MCDONALDS CORP 4.7\% DUE 12-09-2035 | 55,000 | 54,823 | 65,782 |
|  | MCDONALDS CORP 4.875\% DUE 12-09-2045 | 180,000 | 189,710 | 220,908 |
|  | MCDONALD'S CORP FIXED 4.45\% DUE 09-01-2048 | 95,000 | 93,940 | 110,833 |
|  | MEDTRONIC INC 4.625\% DUE 03-15-2045 | 35,000 | 37,030 | 44,838 |
|  | MEMORIAL SLOAN-KETTERING CANCER CTR TAXABLE BD SER 2012A 4.125 7-1-52 | 30,000 | 29,594 | 35,747 |
|  | MERCK \& CO INC NEW 3.9\% 03-07-2039 | 30,000 | 29,687 | 34,697 |
|  | MERCK \& CO INC NEW 4.0\% 03-07-2049 | 100,000 | 98,691 | 119,098 |
|  | MERRILL LYNCH \& CO 6.11\% DUE 01-29-2037 | 290,000 | 333,468 | 387,079 |
|  | METLIFE INC 6.4\% DUE 12-15-2066 | 120,000 | 127,500 | 146,976 |
|  | MICROSOFT CORP 3.7\% DUE 08-08-2046 | 455,000 | 458,435 | 520,153 |
|  | MICROSOFT CORP 3.75\% DUE 02-12-2045 | 80,000 | 77,748 | 91,683 |
|  | MICROSOFT CORP 3.95\% DUE 08-08-2056 | 40,000 | 37,337 | 46,999 |
|  | MICROSOFT CORP 4.1\% DUE 02-06-2037 | 240,000 | 247,333 | 283,800 |
|  | MIDAMERICAN ENERGY 6.125\% DUE 04-01-2036 | 240,000 | 291,086 | 332,007 |
|  | MIDAMERICAN ENERGY CO 3.15\% DUE 04-15-2050 | 70,000 | 69,605 | 70,810 |
|  | MIDAMERICAN ENERGY CO 3.65\% 08-01-2048 | 130,000 | 128,865 | 143,111 |
|  | MIDAMERICAN ENERGY CO 3.95\% 08-01-2047 | 85,000 | 84,056 | 97,698 |
|  | MIDAMERICAN ENERGY CO 4.25\% 07-15-2049 | 50,000 | 49,695 | 60,701 |
|  | MORGAN STANLEY 4.375\% DUE 01-22-2047 | 170,000 | 176,621 | 206,996 |
|  | MPLX LP 4.7\% 04-15-2048 | 220,000 | 218,566 | 218,768 |
|  | MPLX LP 5.5\% DUE 02-15-2049 | 30,000 | 29,409 | 33,034 |
|  | MPLX LP FIXED 5.2\% DUE 03-01-2047 | 25,000 | 24,826 | 26,367 |
|  | MPT OPER 4.625\% DUE 08-01-2029 | 40,000 | 39,800 | 41,949 |
|  | NATIONWIDE FINL 3.9\% DUE 11-30-2049 | 80,000 | 79,606 | 81,875 |
|  | NESTLE HLDGS INC 4\% DUE 09-24-2048 | 160,000 | 157,699 | 187,165 |
|  | NEVADA PWR CO 3.7\% DUE 05-01-2029 | 60,000 | 59,770 | 65,458 |
|  | NEW YORK \& 4.024\% DUE 08-01-2045 | 40,000 | 47,798 | 45,942 |
|  | NOBLE ENERGY INC 4.95\% DUE 08-15-2047 | 60,000 | 57,614 | 63,957 |
|  | NOBLE ENERGY INC 5.05\% DUE 11-15-2044 | 30,000 | 29,914 | 31,928 |
|  | NOBLE ENERGY INC 5.25\% DUE 11-15-2043 | 125,000 | 127,478 | 135,556 |
|  | NOBLE ENERGY INC 6\% DUE 03-01-2041 | 30,000 | 33,912 | 35,441 |
|  | NORFOLK SOUTHN CORP 4.15\% 02-28-2048 | 40,000 | 38,698 | 45,214 |
|  | NORFOLK SOUTHN FIXED 4.05\% DUE 08-15-2052 | 135,000 | 132,015 | 150,687 |
|  | NORTHERN STS PWR CO MINN 3.6\% 09-15-2047 | 115,000 | 111,108 | 125,766 |
|  | NORTHN STS PWR CO 2.9\% DUE 03-01-2050 | 110,000 | 107,878 | 106,939 |
|  | NORTHROP GRUMMAN 4.03\% DUE 10-15-2047 | 290,000 | 271,023 | 325,374 |
|  | NORTHWELL HEALTHCARE INC 4.26\% 11-01-2047 | 20,000 | 19,766 | 21,997 |
|  | NRG ENERGY INC 4.45\% DUE 06-15-2029 | 20,000 | 19,974 | 21,085 |
|  | NUCOR CORP 4.4\% DUE 05-01-2048 | 20,000 | 19,654 | 23,148 |
|  | OCCIDENTAL PETE 4.1\% DUE 02-15-2047 | 260,000 | 252,275 | 247,767 |
|  | OCCIDENTAL PETE 4.2\% DUE 03-15-2048 | 40,000 | 39,327 | 38,862 |
|  | OCCIDENTAL PETE 4.4\% DUE 04-15-2046 | 80,000 | 81,122 | 79,378 |
|  | OCCIDENTAL PETE 6.2\% DUE 03-15-2040 | 170,000 | 188,446 | 202,009 |
|  | OCCIDENTAL PETE 7.5\% DUE 05-01-2031 | 55,000 | 73,838 | 71,739 |
|  | OCCIDENTAL PETE 7.95\% DUE 06-15-2039 | 10,000 | 13,523 | 13,871 |
|  | OCCIDENTAL PETE CORP SR NT 6.45\% 09-15-2036 | 125,000 | 152,218 | 151,996 |
|  | OCCIDENTAL PETE CORP SR NT 6.6\% 03-15-2046 | 285,000 | 332,259 | 365,732 |
|  | OCCIDENTAL PETE FIXED 4.5\% DUE 07-15-2044 | 300,000 | 275,528 | 299,329 |
|  | OCCIDENTAL PETROLEUM CORP 3.5\% DUE 08-15-2029/08-08-2019 REG | 60,000 | 59,955 | 60,588 |
|  | OCCIDENTAL PETROLEUM CORP 4.3\% DUE 08-15-2039 | 60,000 | 60,109 | 60,705 |
|  | OCCIDENTAL PETROLEUM CORP 4.4\% DUE 08-15-2049 | 30,000 | 29,708 | 30,465 |
|  | ONCOR ELEC DELIVERY CO LLC 3.1\% 09-15-2049 | 80,000 | 79,597 | 79,936 |
|  | ORACLE CORP 4\% DUE 07-15-2046 | 320,000 | 305,444 | 358,064 |
|  | ORLANDO HEALTH INC 4.089\% DUE 10-01-2048 | 95,000 | 90,820 | 107,404 |
|  | PEACEHEALTH 4.787\% DUE 11-15-2048 | 30,000 | 30,000 | 38,043 |
|  | PEPSICO INC 3.45\% DUE 10-06-2046 | 160,000 | 145,739 | 172,299 |
|  | PEPSICO INC 4.25\% DUE 10-22-2044 | 30,000 | 30,135 | 35,941 |
|  | PETROBRAS GLOBAL 7.375\% DUE 01-17-2027 | 100,000 | 101,020 | 120,073 |
|  | PETROBRAS GLOBAL FIN B V 6.9\% 03-19-2049 | 70,000 | 70,000 | 80,059 |
|  | PFIZER INC 4.125\% DUE 12-15-2046 | 160,000 | 159,859 | 189,139 |
|  | PHILIP MORRIS INTERNATIONAL INC 3.875 BDS DUE 08-21-2042 USD1000 | 200,000 | 192,274 | 210,470 |
|  | PIEDMONT NAT GAS 3.64\% DUE 11-01-2046 | 60,000 | 53,695 | 59,964 |
|  | PROCTER \& GAMBLE FIXED 3.5\% DUE 10-25-2047 | 80,000 | 74,487 | 91,045 |
|  | PRUDENTIAL FINL INC 3.7\% DUE 03-13-2051 REG | 10,000 | 9,932 | 10,398 |
|  | PRUDENTIAL FINL INC 4.6 DUE 05-15-2044 REG | 155,000 | 161,343 | 182,564 |

## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001

| (a) | (b) Identity of Issuer, Borrower, Lessor, or Similar Party | Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: | :---: |
|  | PVT PLBNP PARIBAS SR NON PFD 5.198\% 01-10-2030 | 200,000 | 200,000 | 235,625 |
|  | PVTPL FOX CORP 5.476\% 01-25-2039 | 210,000 | 212,930 | 258,347 |
|  | PVTPL ABBVIE INC 3.2\% DUE 11-21-2029 | 360,000 | 359,910 | 365,275 |
|  | PVTPL ABBVIE INC 4.05\% DUE 11-21-2039 | 270,000 | 269,047 | 281,460 |
|  | PVTPL ABBVIE INC SR NT 144A 4.25\% DUE 11-21-2049/11-21-2019 | 610,000 | 607,451 | 641,041 |
|  | PVTPL ALCOA NEDERLAND HOLDING 6.125\% 05-15-2028 | 200,000 | 206,826 | 215,500 |
|  | PVTPL ALCON FIN CORP 3.8\% DUE 09-23-2049BEO | 200,000 | 199,644 | 210,329 |
|  | PVTPL BRISTOL MYERS SQUIBB CO 4.35\% DUE 11-15-2047 | 15,000 | 14,960 | 17,726 |
|  | PVTPL BRISTOL MYERS SQUIBB CO 4.125\% 06-15-2039 | 120,000 | 119,590 | 138,637 |
|  | PVTPL BRISTOL MYERS SQUIBB CO 4.25\% 10-26-2049 | 150,000 | 148,737 | 178,144 |
|  | PVTPL BRISTOL MYERS SQUIBB CO 5\% DUE 08-15-2045/11-22-2019 BEO | 95,000 | 97,243 | 121,945 |
|  | PVTPL CARLYLE FIN L L C SR NT 144A 5.65\%DUE 09-15-2048 | 50,000 | 50,316 | 59,562 |
|  | PVTPL CARLYLE FIN SUBSIDIARY LLC S 3.5\% 09-19-2029 | 70,000 | 69,889 | 69,468 |
|  | PVTPL CARLYLE HLDGS II FIN L L C SR NT 144A 5.625\% DUE 03-30-2043 BEO | 100,000 | 98,989 | 116,954 |
|  | PVTPL CENTENE CORP 4.25\% 12-15-2027 | 30,000 | 29,748 | 30,863 |
|  | PVTPL CENTENE CORP DEL 4.625\% DUE 12-15-2029 | 60,000 | 60,000 | 62,925 |
|  | PVTPL CIGNA CORP NEW NT 3.875\% DUE 10-15-2047 | 90,000 | 88,449 | 90,884 |
|  | PVTPL COMMONWEALTH BK AUSTRALIA SR NT 144A 3.743\% DUE 09-12-2039 BEO | 200,000 | 200,000 | 199,825 |
|  | PVTPL DANSKE BK A/S 3.244\% DUE 12-20-2025 | 200,000 | 200,000 | 201,677 |
|  | PVTPL DANSKE BK A/S 5.375\% DUE 01-12-2024 | 260,000 | 259,475 | 285,523 |
|  | PVTPL FIDELITY \& GUARANTY LIFE HOLD. INC5.5\% DUE 05-01-2025 BEO | 90,000 | 89,464 | 95,400 |
|  | PVTPL FOX CORP 5.576\% 01-25-2049 | 180,000 | 182,652 | 229,378 |
|  | PVTPL HEINZ H J FIN CO GTD NT 144A 7.125\% DUE 08-01-2039 BEO | 125,000 | 145,011 | 161,842 |
|  | PVTPL INTESA SANPAOLO S P A RCPTS CL X 144A 4.375\% DUE 01-12-2048 BEO | 230,000 | 179,998 | 223,428 |
|  | PVTPL KKR GROUP FIN CO III LLC SR NT 144A 5.125 DUE 06-01-2044/05-29-2014 BEO | 180,000 | 178,918 | 214,303 |
|  | PVTPL KKR GROUP FIN CO VI LLC SR NT 144A3.75\% DUE 07-01-2029/07-01-2019 BEO | 10,000 | 9,972 | 10,616 |
|  | PVTPL MARS INC 3.6\% DUE 04-01-2034 BEO | 30,000 | 29,890 | 33,370 |
|  | PVTPL MARS INC DEL 3.875\% 04-01-2039 | 140,000 | 140,455 | 157,940 |
|  | PVTPL MARS INC DEL FIXED 3.95\% 04-01-2049 BEO | 30,000 | 30,325 | 34,510 |
|  | PVTPL MARS INC DEL NT 144A 4.2\% DUE 04-01-2059/03-29-2019 BEO | 60,000 | 59,608 | 69,841 |
|  | PVTPL MASS MUTUAL LIFE INS CO SURPLUS NT 4.9\% DUE 04-01-2077 | 140,000 | 137,928 | 175,599 |
|  | PVTPL MELCO RESORTS FIN LTD 5.375\% DUE 12-04-2029 BEO | 200,000 | 200,000 | 204,106 |
|  | PVTPL NEW YORK LIFE INS CO SURPLUS NT 4.45\% 05-15-2069 | 90,000 | 89,489 | 106,936 |
|  | PVTPL NORTHWESTERN MUT LIFE INS CO 3.625\% 09-30-205 | 80,000 | 79,771 | 81,636 |
|  | PVTPL NORTHWESTERN MUT LIFE INS CO SURPLUS 3.85\% 09-30-2047 | 230,000 | 212,111 | 248,641 |
|  | PVTPL NRG ENERGY INC 144A 3.75\% 06-15-2024 | 40,000 | 39,988 | 41,236 |
|  | PVTPL SANTANDER UK GROUP HLDGS PLC 5.625\% DUE 09-15-2045 BEO | 440,000 | 456,192 | 533,714 |
|  | PVTPL SOUTHERN NAT GAS CO L L C 03-15-2047 | 50,000 | 54,321 | 56,553 |
|  | PVTPL TEVA PHARMACEUTICAL FIN NETH III B V 7.125\% DUE 01-31-2025 BEO | 200,000 | 200,000 | 203,500 |
|  | PVTPL UBS GROUP AG SR 3.126\% 08-13-2030 | 200,000 | 200,000 | 203,015 |
|  | PVTPL UBS GROUP FDG SWITZ AG CONV CORP 7.0\% 12-31-2049 | 280,000 | 280,000 | 303,450 |
|  | PVTPL UNION PAC CORP 3.839\% DUE 03-20-2060 | 190,000 | 161,068 | 193,476 |
|  | PVTPL XSTRATA FIN CDA LTD GTD NT 5.3 DUE10-25-2042 BEO | 355,000 | 354,022 | 383,749 |
|  | PVTPL XSTRATA FIN CDA LTD NT 6 DUE 11-15-2041 BEO | 170,000 | 177,580 | 190,339 |
|  | RAYMOND JAMES FINL 4.95\% DUE 07-15-2046 | 110,000 | 112,483 | 131,024 |
|  | REPUBLIC SVCS INC 6.2\% DUE 03-01-2040 | 30,000 | 37,865 | 41,426 |
|  | ROYAL BK SCOTLAND FLTG RT 5.076\% DUE 01-27-2030 | 200,000 | 200,000 | 229,748 |
|  | S\&P GLOBAL INC 2.5\% DUE 12-01-2029 | 10,000 | 9,983 | 10,052 |
|  | S\&P GLOBAL INC 3.25\% DUE 12-01-2049 | 90,000 | 89,316 | 91,615 |
|  | SAN DIEGO GAS \& 3.75\% DUE 06-01-2047 | 90,000 | 82,514 | 93,652 |
|  | SANDS CHINA LTD FIXED 4.6\% 08-08-2023 | 270,000 | 269,835 | 285,865 |
|  | SHELL INTERNATIONAL FIN 4.375\% DUE 05-11-2045 | 40,000 | 39,600 | 48,202 |
|  | SHELL INTL FIN B V 4\% DUE 05-10-2046 | 170,000 | 166,875 | 195,856 |
|  | SHELL INTL FIN B V 6.375\% DUE 12-15-2038 | 110,000 | 143,426 | 159,625 |
|  | SOUTHERN CAL EDISON 3.6\% 02-01-2045 | 40,000 | 39,846 | 39,502 |
|  | SOUTHERN CALIF EDISON CO 4.65 DUE 10-01-2043 | 110,000 | 114,116 | 124,928 |
|  | SOUTHN CAL EDISON 4\% DUE 04-01-2047 | 60,000 | 56,192 | 63,114 |
|  | SOUTHN CAL EDISON 5.5\% DUE 03-15-2040 | 115,000 | 142,405 | 140,426 |
|  | SOUTHN COPPER CORP 5.25\% DUE 11-08-2042 | 190,000 | 191,406 | 213,942 |
|  | SOUTHN NAT GAS CO 8\% DUE 03-01-2032 | 120,000 | 154,994 | 173,111 |
|  | SOUTHWESTERN PUBLIC SERVICE 08-09-2017 3.7\% DUE 08-15-2047 BEO | 70,000 | 67,952 | 75,212 |
|  | SPCL1 GEN ELEC CAP CORP 5.875\% DUE 01-14-2038 | 90,000 | 94,349 | 110,307 |
|  | STATOIL ASA 3.95 DUE 05-15-2043 | 40,000 | 40,673 | 45,172 |
|  | SUNOCO LOGISTICS 5.35\% DUE 05-15-2045 | 305,000 | 308,337 | 315,522 |
|  | SUZANO AUSTRIA 7\% DUE 03-16-2047 | 200,000 | 219,640 | 231,000 |
|  | TARGET CORP 3.625\% DUE 04-15-2046 | 115,000 | 104,960 | 127,033 |
|  | TARGET CORP 4\% DUE 07-01-2042 | 40,000 | 39,006 | 46,226 |
|  | TEACHERS INS \& 4.27\% DUE 05-15-2047 | 70,000 | 67,935 | 81,270 |
|  | TELEFONICA 7.045\% DUE 06-20-2036 | 250,000 | 301,003 | 350,650 |
|  | TEXAS INSTRS INC 3.875\% 03-15-2039 | 110,000 | 109,833 | 125,432 |
|  | TEXAS INSTRS INC 4.15\% DUE 05-15-2048 | 200,000 | 200,564 | 242,317 |
|  | TIME WARNER CABLE 5.875\% DUE 11-15-2040 | 10,000 | 11,508 | 11,551 |
|  | TIME WARNER CABLE 6.55\% DUE 05-01-2037 | 20,000 | 24,371 | 24,436 |
|  | TIME WARNER CABLE 6.75\% DUE 06-15-2039 | 315,000 | 387,546 | 396,373 |
|  | TIME WARNER CABLE 7.3\% DUE 07-01-2038 | 90,000 | 105,914 | 115,412 |
|  | TRANSCONT GAS PIPE LINE 4.6\% DUE 03-15-2048 | 110,000 | 109,312 | 116,549 |

## RR DONNELLEY PENSION PLAN

SCHEDULE H, ITEM 4i - SCHEDULE OF ASSETS (HELD AT END OF YEAR)
AS OF NOVEMBER 30, 2019
Emplover Identification Number: 13-2618477, Plan Number 001

| (a) | (b) Identity of Issuer, Borrower, Lessor, or Similar Party | (c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: | :---: |
|  | TRANSCONTINENTAL GAS PIPE LINE CO LLC 4.45 DUE 08-01-2042 REG | 125,000 | 121,143 | 130,235 |
|  | TRAVELERS COS INC 4.1\% 03-04-2049 | 90,000 | 89,661 | 105,154 |
|  | TRCNTNTL GAS PIPE 5.4 DUE 08-15-2041 | 15,000 | 17,011 | 17,613 |
|  | U S BANCORP FIXED 3\% 07-30-2029 | 80,000 | 79,993 | 82,666 |
|  | UNICREDIT SPA 7.296\% DUE 04-02-2034 | 200,000 | 200,000 | 230,063 |
|  | UNION PAC CORP 4.05\% DUE 03-01-2046 | 70,000 | 69,077 | 77,147 |
|  | UNION PAC CORP 4.375\% DUE 11-15-2065 | 45,000 | 43,219 | 49,330 |
|  | UNION PACIFIC CORP 3.6\% DUE 09-15-2037 | 20,000 | 19,257 | 21,023 |
|  | UNITEDHEALTH GROUP 2.875\% DUE 08-15-2029 | 10,000 | 9,997 | 10,296 |
|  | UNITEDHEALTH GROUP 3.5\% DUE 08-15-2039 | 70,000 | 69,311 | 74,184 |
|  | UNITEDHEALTH GROUP 3.7\% DUE 08-15-2049 | 110,000 | 109,622 | 118,071 |
|  | UNITEDHEALTH GROUP 3.875\% DUE 08-15-2059 | 270,000 | 267,602 | 290,521 |
|  | UNITEDHEALTH GROUP 4.75\% DUE 07-15-2045 | 320,000 | 341,944 | 396,779 |
|  | UNITEDHEALTH GROUP FIXED 4.25\% DUE 06-15-2048 | 60,000 | 60,303 | 69,871 |
|  | UNIV SOUTHN CAL 5.25\% DUE 10-01-2111 | 75,000 | 95,902 | 112,384 |
|  | UTD TECHNOLOGIES 4.05\% DUE 05-04-2047 | 50,000 | 46,051 | 57,313 |
|  | UTD TECHNOLOGIES 4.5\% DUE 06-01-2042 | 75,000 | 79,408 | 90,472 |
|  | UTD TECHNOLOGIES 4.625\% DUE 11-16-2048 | 105,000 | 105,941 | 131,522 |
|  | UTD TECHNOLOGIES NT 5.7 DUE 04-15-2040 | 35,000 | 42,870 | 47,544 |
|  | VA ELEC \& PWR CO 3.8\% DUE 09-15-2047 | 60,000 | 55,178 | 65,486 |
|  | VERIZON 4.125\% DUE 08-15-2046 | 110,000 | 97,796 | 124,694 |
|  | VERIZON 4.75\% DUE 11-01-2041 | 30,000 | 29,364 | 36,426 |
|  | VERIZON COMMUNICATIONS 4.522\% 09-15-2048 | 922,000 | 878,419 | 1,112,375 |
|  | VERIZON COMMUNICATIONS 6.55 BDS DUE 09-15-2043 USD2000 BEO | 30,000 | 40,657 | 44,413 |
|  | VERIZON COMMUNICATIONS BNDS 5.25\% DUE 03-16-2037 REG | 180,000 | 190,824 | 227,457 |
|  | VISA INC 4.3\% DUE 12-14-2045 | 365,000 | 379,446 | 449,756 |
|  | VODAFONE GROUP PLC 5.25\% DUE 05-30-2048 | 210,000 | 211,156 | 250,924 |
|  | WALMART INC 2.95\% DUE 09-24-2049 | 70,000 | 68,970 | 70,389 |
|  | WALMART INC 4.05\% DUE 06-29-2048 REG | 220,000 | 217,485 | 263,408 |
|  | WAL-MART STORES 4.3 DUE 04-22-2044 | 88,000 | 91,303 | 108,436 |
|  | WASTE MGMT INC DEL 3.45\% DUE 06-15-2029 | 40,000 | 39,922 | 42,954 |
|  | WASTE MGMT INC DEL 4.0\% DUE 07-15-2039 | 20,000 | 20,167 | 22,684 |
|  | WASTE MGMT INC DEL FIXED 4.15\% 07-15-2049 | 100,000 | 100,460 | 115,992 |
|  | WELLPOINT INC 5.1\% DUE 01-15-2044 | 145,000 | 158,135 | 171,693 |
|  | WELLS FARGO \& CO 4.75\% DUE 12-07-2046 | 410,000 | 410,721 | 500,938 |
|  | WELLS FARGO \& CO 4.9\% DUE 11-17-2045 | 80,000 | 81,606 | 99,358 |
|  | WELLS FARGO \& CO 5.375\% DUE 11-02-2043 | 540,000 | 583,485 | 698,152 |
|  | WELLS FARGO \& CO 5.606\% DUE 01-15-2044 | 115,000 | 128,427 | 151,505 |
|  | WELLS FARGO \& CO FIXED 2.879\% DUE 10-30-2030 | 70,000 | 70,000 | 70,317 |
|  | WESLEYAN UNIV CONN 4.781\% DUE 07-01-2116 | 50,000 | 49,403 | 57,976 |
|  | WESTERN GAS PARTNERS LP 4.75\% 08-15-2028 | 50,000 | 50,104 | 48,479 |
|  | WESTN GAS PARTNERS 5.3\% 03-01-2048 | 40,000 | 41,936 | 33,412 |
|  | WESTN GAS PARTNERS 5.45\% DUE 04-01-2044 | 250,000 | 236,225 | 211,507 |
|  | WESTN GAS PARTNERS 5.5\% DUE 08-15-2048 | 90,000 | 88,144 | 76,532 |
|  | WILLIAMS COS INC 5.75\% DUE 06-24-2044 | 30,000 | 29,819 | 34,384 |
|  | WILLIAMS COS INC 8.75\% DUE 03-15-2032 | 70,000 | 93,095 | 97,749 |
|  | WILLIAMS PARTNERS 5.1\% DUE 09-15-2045 | 150,000 | 149,283 | 159,816 |
|  | WILLIAMS PARTNERS 6.3\% DUE 04-15-2040 | 10,000 | 11,808 | 11,963 |
|  | WILLIS-KNIGHTON 4.813\% DUE 09-01-2048 | 80,000 | 80,000 | 97,331 |
|  | WYETH NT 5.95 DUE 04-01-2037/03-27-2007 BEO | 20,000 | 24,201 | 27,779 |
|  | YAMANA GOLD INC FIXED 4.625\% 12-15-2027 | 170,000 | 159,732 | 179,923 |
|  | TOTAL CORPORATE DEBT SECURITIES |  | 57,954,170 | 64,055,993 |
| COMMON STOCK |  |  |  |  |
|  | CARILLION ORD GBP0.50 | 34,601 | 173,814 | 6,355 |
|  | CENTROSOLAR GROUP NPV | 223 | 38,875 | 26 |
|  | CIRCLE OIL ORD EUR0.01 | 266,274 | 80,277 | 2,153 |
|  | DMX TECHNOLOGIES GROUP DELISTED | 4,700 | 1,041 | 375 |
|  | FERROGLOBE REPRESENTING SPINOFF EX-DATED11/15/16 HELD AT AGENT | 27,448 | - | - |
|  | K1 VENTURES | 12,300 | 5,280 | 4,106 |
|  | PETROPLUS HOLDINGS CHF7.58 (REGD) | 38,400 | 618,224 | 1,153 |
|  | TOTAL COMMON STOCK |  | 917,511 | 14,168 |
|  | SHORT-TERM INVESTMENTS AND COMMON COLLECTIVE TRUSTS |  |  |  |
|  | AQR EMERGING MARKETS EQUITY COLLECTIVE INVESTMENT TRUST | 1,848,000 | 18,480,000 | 17,487,776 |
|  | ARROWSTREET INT EQ ACWI EX US FUND | 272,944 | 40,701,419 | 43,501,824 |
|  | DOUBLELINE LONG DURATION TOTAL RETURN FUND | 1,906,496 | 19,255,613 | 23,240,191 |
|  | FIAM SMALL/MID CAP CORE COMMINGLED POOL | 249,724 | 15,840,000 | 17,288,400 |
|  | L\&G LONG DURATION U.S. CREDIT CIT FUND | 344,368 | 37,215,868 | 45,277,527 |
|  | NORTHERN TRUST COLLECTIVE S\&P500 INDEX FUND-NON LENDING | 6,332 | 42,746,702 | 70,719,876 |
|  | NORTHERN TRUST COLLECTIVE SHORT TERM INVESTMENT FUND | 4,616,542 | 4,616,542 | 4,616,542 |
|  | WELLINGTON II OPPORTUNISTIC EMERGING MARKETS DEBT PORTFOLIO | 2,112,199 | 22,790,650 | 23,339,798 |
| TOTAL SHORT-TERM INVESTMENTS AND COMMON COLLECTIVE TRUSTS |  |  | 201,646,794 | 245,471,934 |

## AS OF NOVEMBER 30, 2019

Emplover Identification Number: 13-2618477, Plan Number 001

| (a) (b) Identity of Issuer, Borrower, Lessor, or Similar Party | (c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value | (d) Cost | (e) Current Value |
| :---: | :---: | :---: | :---: |
| POOLED SEPARATE ACCOUNT |  |  |  |
| PRIVEST | 691 | 22,029,792 | 23,372,094 |


| (a) (b) Identity of Issuer, Borrower, Lessor, or Similar Party | (c) Description of Investment Including Maturity Date, Rate of Interest, Collateral, Par or Maturity Value |  | (d) Cost | (e) Current Value |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REGISTERED INVESTMENT COMPANIES |  |  |  |  |  |
| HARBOR FDS DIVERSIFIED INTL ALL CAP FD INSTL CL | 3,663,775 |  | 40,444,131 |  | 41,730,393 |
| PIMCO FDS INCOME FD INSTL CL | 2,368,842 |  | 28,113,157 |  | 28,355,038 |
| TOTAL REGISTERED INVESTMENT COMPANIES |  |  | 68,557,288 |  | 70,085,431 |
| PARTNERSHIP |  |  |  |  |  |
| INVICTUS OPPORTUNITY FUND II, L.P. | 2,726,838 |  | 2,726,838 |  | 2,270,117 |
| HEDGE FUNDS |  |  |  |  |  |
| HILDENE OPPORTUNITIES OFFSHORE FUND II, LTD. CL A SER 36 | 15,840 |  | 15,840,000 |  | 15,876,907 |
| HILDENE OPPORTUNITIES OFFSHORE FUND, LTD. CL LSER 56-OCT 2018 | 15,840 |  | 15,840,000 |  | 16,048,296 |
| TOTAL HEDGE FUNDS |  |  | 31,680,000 |  | 31,925,203 |
| COLLATERAL HELD UNDER SECURITIES LENDING AGREEMENTS <br> * CASH COLLATERAL - NT COLLECTIVE SL CORE S/T INV FUND | Restricted securities |  |  |  |  |
| * CASH COLLATERAL - NT COLLECTIVE SL CORE S/T INV FUND | Restricted securities |  | 59,185,369 |  | 59,185,369 |
| TOTAL |  | \$ | 558,856,742 | \$ | 629,686,913 |

[^1]

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

## Part II Beginning of Year Carryover and Prefunding Balances



## Part III Funding Percentages

| 1 | Funding target attainment percentage | 14 | 115.40\% |
| :---: | :---: | :---: | :---: |
| 15 | Adjusted funding target attainment percentage | 15 | 115.90\% |
| 16 | Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement | 16 | 112.58\% |
|  | If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage. | 17 | \% |

## Part IV Contributions and Liquidity Shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

| (a) Date <br> (MM-DD-YYYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees | (a) Date <br> (MM-DD-YYYY) | (b) Amount paid by <br> employer(s) | (c) Amount paid by <br> employees |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

19 Discounted employer contributions - see instructions for small plan with a valuation date after the beginning of the year:
a Contributions allocated toward unpaid minimum required contributions from prior years.................................... 19a
b Contributions made to avoid restrictions adjusted to valuation date
19b
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.
19c
20 Quarterly contributions and liquidity shortfalls:
a Did the plan have a "funding shortfall" for the prior year?
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?


C If line 20a is "Yes," see instructions and complete the following table as applicable:
Liquidity shortfall as of end of quarter of this plan year
(1) 1 st
(2) $2 n d$
(3) 3rd
(4) 4th

## Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:


## Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.
$\square$ Yes X No

25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment............................... $\square$ Yes X No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ....................... X Yes $\square$ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment
Part VII $\quad$ Reconciliation of Unpaid Minimum Required Contributions For Prior Years

| 28 | Unpaid minimum required contributas | 28 |  |
| :---: | :---: | :---: | :---: |
| 29 | Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a) | 29 |  |
|  | Remaining amount of unpaid minimum required contributions (line 28 minus line 29) | 30 |  |

## Part VIII $\quad$ Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):

| a Target normal cost (line 6). |  |  | 31a | 3,620,000 |
| :---: | :---: | :---: | :---: | :---: |
| b Excess assets, if applicable, but not greater than line 31a |  |  | 31b | 3,620,000 |
| Amortization installments: <br> a Net shortfall amortization installment. <br> b Waiver amortization installment |  | Outstanding Balance |  | Installment |
|  |  |  | 0 | 0 |
|  |  |  |  |  |
| If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month $\qquad$ Day $\qquad$ Year $\qquad$ ) and the waived amount $\qquad$ |  |  | 33 |  |
| Total funding requirement before reflecting carryover/prefunding balances (lines 31a-31b+32a + 32b-33).... |  |  | 34 | 0 |
|  | Carryover balance | Prefunding balance |  | Total balance |
| Balances elected for use to offset funding requirement. |  |  | 0 | 0 |
| Additional cash requirement (line 34 minus line 35). |  |  | 36 | 0 |
| Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c). |  |  | 37 | 0 |

38 Present value of excess contributions for current year (see instructions)
a Total (excess, if any, of line 37 over line 36)
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances .......... 38b
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)........................... 39
40 Unpaid minimum required contributions for all years

| $38 a$ | 0 |
| :---: | ---: |
| $38 b$ | 0 |
| 39 | 0 |
| 40 | 0 |


\section*{| Part IX | Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions) |
| :--- | :--- |}

41 If an election was made to use PRA 2010 funding relief for this plan:
a Schedule elected ................................................................................................................................................ $\square 2$ plus 7 years $\square 15$ years
b Eligible plan year(s) for which the election in line 41a was made ....................................................................... $\square 2008 \quad \square 2009 \square 2010 \square 2011$

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

## Schedule SB, line 22—Description of Weighted Average Retirement Age

The average retirement age shown in line 22 has been calculated by assuming the following retirement rates and no decrements other than retirement for this calculation. All retirements are assumed to occur at mid-year, except for the 100\% retirement age.

| (a) | (b) <br> Rate | (c) <br> Weight | (d) <br> (a) $\times(b) \times(\mathbf{c})$ |
| :--- | ---: | ---: | ---: |
| 55.5 | $6.00 \%$ | 1.0000 | 3.33 |
| 56.5 | $6.00 \%$ | 0.9400 | 3.19 |
| 57.5 | $6.00 \%$ | 0.8836 | 3.05 |
| 58.5 | $6.00 \%$ | 0.8306 | 2.92 |
| 59.5 | $10.00 \%$ | 0.7807 | 4.65 |
| 60.5 | $10.00 \%$ | 0.7027 | 4.25 |
| 61.5 | $15.00 \%$ | 0.6324 | 5.83 |
| 62.5 | $30.00 \%$ | 0.5375 | 10.08 |
| 63.5 | $20.00 \%$ | 0.3763 | 4.78 |
| 64.5 | $30.00 \%$ | 0.3010 | 5.82 |
| 65.5 | $50.00 \%$ | 0.2107 | 6.90 |
| 66.5 | $30.00 \%$ | 0.1054 | 2.10 |
| 67.5 | $30.00 \%$ | 0.0738 | 1.49 |
| 68.5 | $30.00 \%$ | 0.0516 | 1.06 |
| 69.5 | $30.00 \%$ | 0.0361 | 0.75 |
| 70 | $100.00 \%$ | 0.0253 | 1.77 |
|  | Weighted Average | 61.97 |  |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods
For ERISA Requirements-Legacy Bowne

Interest Rates for Minimum Funding Purposes
1st Segment Rate
2nd Segment Rate
3rd Segment Rate
Interest Rates for Maximum Tax Purposes
1st Segment Rate
2nd Segment Rate
3rd Segment Rate
Cash Balance Interest Crediting Rate
Optional Payment Form Election Percentage
Optional Payment Form Conversion Interest Rate

Optional Payment Form Conversion Mortality
Retirement Age
Active Participants
Terminated Vested Participants
Mortality Rates
Healthy and Disabled

Withdrawal Rates
Disability Rates
Surviving Spouse Benefit

Based on segment rates with a four-month lookback (as of August 2018), each adjusted as needed to fall within the 25 -year average interest rate stabilization corridor
3.92\%
5.52\%
6.29\%

Based on segment rates with a four-month lookback (as of August 2018), without regard to interest rate stabilization
2.21\%
3.77\%
4.45\%
3.50\%
$100 \%$ election of the lump sum option
Same as funding interest rates above for lump sums

Current 417(e) table for lump sums

See Table 1
Age 65

2018 static mortality table (with new basis adoption deferred to 2019) for annuitants and non-annuitants per section $1.430(\mathrm{~h})(3)-1(\mathrm{e})$

See Table 2
None
It is assumed that $100 \%$ of males and $100 \%$ of females have an eligible spouse, and that males are three years older than their spouses.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Valuation of Plan Assets
Expected Return on Assets
December 1, 2016 Plan Year
December 1, 2017 Plan Year
December 1, 2018 Plan Year
Trust Expenses Included in Target Normal Cost
Participants Over the Age to Commence Required
Minimum Distributions

Actuarial Method

Valuation Date

Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than $90 \%$ nor more than $110 \%$ of fair market value.

A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected longterm rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).
6.75\%, limited to 6.65\%
6.75\%, limited to 6.48\%
6.25\%

Based on prior year's actual plan administrative expenses (excluding PBGC premiums) plus the PBGC premium for the current year, rounded up to the nearest $\$ 1,000$.

Inactive deferred vested participants who are over the age of $701 / 2$ are assumed to be irretrievable. These participants are included in the participant counts but their benefits have been excluded from the calculation of the liabilities.

Standard unit credit cost method
December 1, 2018

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## For ERISA Requirements—Legacy RBP and Legacy Banta Salaried

| Cash Balance Interest Crediting Rate | 3.30\% |
| :---: | :---: |
| Optional Payment Form Election Percentage | $100 \%$ election of lump sum option upon termination or retirement for those participants accruing benefits under the Cash Balance formula and $100 \%$ election of single life annuity for all other benefits |
| Retirement Age |  |
| Terminated Vested Participants | Age 62 |
| Disability Rates | See Table 3 |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |
| For ERISA Requirements-Legacy Banta Hourly |  |
| Optional Payment Form Election Percentage | Specialty Converting (KCS)—100\% election of five-year Certain \& Life for normal retirement. Single life annuity for other decrements. |
| Retirement Age |  |
| Terminated Vested Participants | Age 62 |
| Disability Rates | See Table 3 |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |
| For ERISA Requirements-Legacy Haddon |  |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan 

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## For ERISA Requirements—Legacy Moore Wallace

Optional Payment Form Election Percentage

Retirement Age
Terminated Vested Participants

Surviving Spouse Benefit

Other Assumptions

100\% election of a lump sum for the pension equity and special enhancement benefits.
$100 \%$ election of five-year certain and life for all pre-2005 benefits and 100\% election of single life annuity for post-2005 benefits.

Age 62

It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses.

Same as Legacy Bowne

Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan
EIN: 36-1004130 PN: 022

Table 1

| Retirement Rates <br> Age | Rate |
| :--- | ---: |
| 55 | $6.00 \%$ |
| 56 | $6.00 \%$ |
| 57 | $6.00 \%$ |
| 58 | $6.00 \%$ |
| 59 | $10.00 \%$ |
|  |  |
| 60 | $10.00 \%$ |
| 61 | $15.00 \%$ |
| 62 | $30.00 \%$ |
| 63 | $20.00 \%$ |
| 64 | $30.00 \%$ |
|  |  |
| 65 | $50.00 \%$ |
| 66 | $30.00 \%$ |
| 67 | $30.00 \%$ |
| 68 | $30.00 \%$ |
| 69 | $30.00 \%$ |
| $70+$ |  |
|  |  |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

Table 2—Page 1 of 2
Withdrawal Rates

| Age | Years of Service |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-3 | 4 | 5+ |
| 20 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 21 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 22 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 23 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 24 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 25 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 26 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 27 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 28 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 29 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 30 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 31 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 32 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 33 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 34 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 35 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 36 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 37 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 38 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 39 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 40 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 41 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 42 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 43 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 44 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

Table 2—Page 2 of 2
Withdrawal Rates

|  | Years of Service |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Age | $\mathbf{0}$ | $\mathbf{1 - 3}$ | $\mathbf{4}$ | $\mathbf{5 +}$ |
| 45 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 46 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 47 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 48 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 49 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
|  |  |  |  |  |
| 50 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 51 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 52 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 53 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 54 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
|  |  |  |  |  |
| 55 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 56 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 57 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 58 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 59 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
|  |  |  |  |  |
| 60 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 61 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 62 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 63 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 64 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
|  |  |  |  |  |
| $65+$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

## Table 3

| Disability Rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Age | Male | Female |
| 15 | 0.03\% | 0.03\% | 45 | 0.16\% | 0.24\% |
| 16 | 0.03\% | 0.03\% | 46 | 0.18\% | 0.27\% |
| 17 | 0.03\% | 0.03\% | 47 | 0.21\% | 0.30\% |
| 18 | 0.03\% | 0.03\% | 48 | 0.25\% | 0.33\% |
| 19 | 0.03\% | 0.03\% | 49 | 0.28\% | 0.36\% |
| 20 | 0.03\% | 0.03\% | 50 | 0.33\% | 0.40\% |
| 21 | 0.03\% | 0.03\% | 51 | 0.39\% | 0.44\% |
| 22 | 0.03\% | 0.03\% | 52 | 0.46\% | 0.49\% |
| 23 | 0.03\% | 0.03\% | 53 | 0.53\% | 0.54\% |
| 24 | 0.03\% | 0.03\% | 54 | 0.61\% | 0.59\% |
| 25 | 0.03\% | 0.03\% | 55 | 0.69\% | 0.64\% |
| 26 | 0.03\% | 0.03\% | 56 | 0.77\% | 0.69\% |
| 27 | 0.03\% | 0.03\% | 57 | 0.86\% | 0.74\% |
| 28 | 0.03\% | 0.04\% | 58 | 0.95\% | 0.80\% |
| 29 | 0.03\% | 0.04\% | 59 | 1.05\% | 0.85\% |
| 30 | 0.03\% | 0.04\% | 60 | 1.15\% | 0.90\% |
| 31 | 0.03\% | 0.05\% | 61 | 1.26\% | 0.96\% |
| 32 | 0.03\% | 0.05\% | 62 | 1.38\% | 1.01\% |
| 33 | 0.03\% | 0.06\% | 63 | 1.51\% | 1.05\% |
| 34 | 0.03\% | 0.06\% | 64 | 1.64\% | 1.09\% |
| 35 | 0.04\% | 0.07\% | $65+$ | 0.00\% | 0.00\% |
| 36 | 0.04\% | 0.08\% |  |  |  |
| 37 | 0.05\% | 0.09\% |  |  |  |
| 38 | 0.06\% | 0.10\% |  |  |  |
| 39 | 0.07\% | 0.12\% |  |  |  |
| 40 | 0.08\% | 0.13\% |  |  |  |
| 41 | 0.09\% | 0.15\% |  |  |  |
| 42 | 0.10\% | 0.17\% |  |  |  |
| 43 | 0.12\% | 0.19\% |  |  |  |
| 44 | 0.14\% | 0.22\% |  |  |  |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Schedule SB, Part V—Summary of Plan Provisions

Legacy Bowne Pension Plan

Effective Date of Original Plan

Eligibility

November 1, 1951. Restated effective January 1, 2008 and amended through November 30, 2015.

An employee becomes a participant upon completing one year of service.

The plan is closed to new participants as of January 1, 2012.

Age 65.
The sum of (a) and (b) below:
(a) The participant's frozen December 31, 2007 accrued benefit; and
(b) An amount equal to the actuarial equivalent of the participant's cash balance account converted using applicable IRC section 417(e) interest and mortality:

## Cash Balance Account

Prior to December 31, 2011, the account was credited at the end of each month with an amount equal to $3 \%$ of that month's compensation After December 31, 2011, the cash balance account will receive no additional compensation credits.

The account is credited at the end of each month with interest based on the 10-year Treasury rate plus 25 basis points, subject to a $2 \%$ floor and $7 \%$ cap.

Early Retirement
Eligibility

Annual Benefit

Age 55 and five years of credited service or, if earlier, when a participant with service prior to November 1, 1989 has completed 30 years of service.

An amount equal to the actuarial equivalent of the participant's normal retirement benefit payable at the participant's early retirement date.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Disability Retirement
Eligibility
Annual Benefit

Preretirement Death Benefit
Eligibility
Annual Benefit

Eligible for a vested benefit.
An amount equal to the actuarial equivalent of the participant's normal retirement benefit payable at the participant's disability retirement date.

Eligible for a vested benefit.

## Frozen Accrued Benefit

If a participant is married, the surviving spouse is entitled to an immediate life annuity equal to one-half of the annuity the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

If a participant is unmarried at the time of his death, his beneficiary is entitled to a lump sum equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity assuming the participant has a spouse the same age.

## Cash Balance Account

The beneficiary is entitled to the full account balance.

Three years of credited service for the Cash Balance account and five years of credited service for the frozen accrued benefit.

Accrued benefit payable at normal retirement age.

Age 65.
Frozen Accrued Benefit
An amount equal to the actuarial equivalent frozen accrued benefit payable at the participant's normal retirement date adjusted to the participant's postponed retirement date.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan 

EIN: 36-1004130 PN: 022

## Definitions

Credited Service

Compensation

Normal Form of Benefit

Optional Payment Forms

Plan Year

## Cash Balance Account

The participant will continue to earn pay and interest credits and the balance will be converted at the postponed retirement date.

Credited service is measured in completed years and months.

Compensation including overtime, bonuses, and certain sales incentives prior to January 1, 1996.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), $100 \%, 50 \%$, or $75 \%$ joint and survivor annuity, 10 year certain and life, or a lump sum.

December 1 to November 30.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Retirement Benefit Plan of R.R. Donnelley \& Sons Company

| Effective Date of Original Plan | December 31, 1940. Restated effective January 1, 2005. <br>  <br> Effective December 31, 2013, the plan was merged into <br> the Bowne Pension Plan. |
| :--- | :--- |
| Eligibility |  |
|  | An employee became a participant on the nearest <br> January 1 after attaining age 21 and one year of service <br> $(1,000+$ hours). |
| After December 31, 2011, no additional individuals shall |  |
| become participants of the plan. |  |

## Career Average Formula

Normal Retirement
Eligibility

Benefit

Age 65.
Benefits accrued through December 31, 2004 plus a benefit for each year after 2004 but before 2012 equal to the sum of (a) and (b) below:
(a) $0.70 \%$ of pensionable earnings; and
(b) For participants with age plus service points greater than 55, as of January 1, 2005, an additional annual accrual beginning in 2005 of:

Points | Pensionable |
| ---: |
| Earnings |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Cash Balance Formula

Normal Retirement

Eligibility
Annual Benefit

Opening Cash Balance Account

Pay Credits

Interest Credits

Age 65.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001, earned under the provisions of the plan in effect at that time.

A participant's opening cash balance account is zero at date of hire for employees who become participants on or after January 1, 2002. For plan participants prior to January 1, 2002, the opening account was created by converting the December 31, 2001 accrued benefit into an equivalent present value (using 5.50\% interest, 1983 GATT mortality, and age 65 retirement).

The annual pay credit was added to the cash balance account after interest was credited for the year. A participant was eligible for a pay credit if they had earned one year of benefit service (had worked one hour during the year).

The annual pay credit was based on annual pensionable earnings, and was an amount equal to (a) plus (b) below:
(a) $4 \%$ of pensionable earnings less than or equal to $1 / 2$ of the Social Security wage base for the year; plus
(b) $6 \%$ of pensionable earnings greater than $1 / 2$ of the Social Security wage base for the year.

No additional pay credits will be granted after January 1, 2005.

Interest is credited to the account annually. The annual interest rate is the 30 -year Treasury rate for September of the year prior to the year in which interest is credited.

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Early Retirement
Eligibility
Annual Benefit

Vested Deferred Retirement Eligibility

Annual Benefit

Age 55 and five years of service.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001, earned under the provisions of the plan in effect at that time, reduced $3.6 \%$ per year for each of the first five years by which benefit commencement precedes 65 and $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Three years of service.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001 earned under the provisions of the plan in effect at that time, actuarially reduced from age 65.

Eligible for a vested benefit.
$100 \%$ of the cash balance account will be paid to the beneficiary if a participant dies before commencement of benefits.

## Traditional Formula

Normal Retirement
Eligibility
Benefit

Age 65.
Benefits accrued through December 31, 1997 (date of last past service increase) plus a benefit for each year after 1997 equal to the sum of (a), (b), and (c) below:
(a) $1.50 \%$ of pensionable earnings not in excess of covered compensation; and

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Early Retirement Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement ${ }^{1}$
Eligibility
Benefit
(b) $2.00 \%$ pensionable earnings in excess of covered compensation.
(c) For participants with age plus service points greater than 70, as of January 1, 1999, an additional annual accrual beginning in 1999 of:

| Percent |
| ---: |
| Pensionable |
| Earnings |

$0.15 \%$
$0.30 \%$
$0.45 \%$
$0.60 \%$

Note: The benefit cannot be less than $\$ 60$ per year for members who have 1,000 or more hours of service in a year. Also, members with 38 or more years of service will receive a benefit accrual of $2 \%$ of pensionable earnings instead of (a) and (b) above for each year of service in excess of 37 years.

The Pre-Retirement Surviving Spouse Option (PRSSO) reduction factor is applied to the December 31, 2001 accrued benefit.

Age 55 and five years of vesting service. Age 55 if hired before January 1, 1995.

The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Twenty-five continuous years of service.
The accrued normal or early retirement benefit plus an additional one-time accrual of $\$ 600$ if the participant's date of termination due to disability is after December 31, 1999.

[^2]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Preretirement Surviving Spouse Benefit
Eligibility
Benefit


Eligibility
Benefit

Definitions
Vesting Service

Credited Service

Pensionable Earnings

Normal Form of Benefit

Optional Payment Forms

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

All service since date of hire, measured in years and months.

All service while participating in the plan. Credited service is measured in completed years and months.

Compensation including overtime, commissions, bonuses, and elective deferrals.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), 100\%, 50\%, or $25 \%$ joint and survivor annuity, or Social Security level income.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

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| Optional Lump Sum | Participants with accrued benefits under the cash <br> balance formula may elect to receive a lump sum <br> distribution of their benefit upon vested termination. |
| :--- | :--- |
| Social Security Covered | The average of the Social Security wage base for the <br> Compensation Level |
| 35-year period for someone reaching age 65 in the <br> calendar year of determination. |  |
| Social Security Wage Base | This annual amount is the maximum earnings amount on <br> which employees and employers pay the OASDI portion <br> of FICA taxes. It is calculated annually by the Social <br> Security Administration. |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Corporation Employees Pension Plan
Effective Date of Original Plan

Eligibility

Career Average
January 1, 1952. Restated effective August 1, 2003. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An employee becomes a participant on the nearest January 1 after attaining age 21 and one year of service (1,000+ hours).

Employees in a collective bargaining unit are not eligible.
After December 31, 2011, no additional individuals shall become participants of the plan.

Effective March 31, 2007 and frozen December 31, 2011, all existing employees began accruing benefits under the new career average formula. The pre-April 1, 2007 final average pay formula only reflects pay and service age as of March 31, 2007. Additionally, all newly hired employees accrued benefits under this new formula.

Post-March 31, 2007 Career Average Formula

Normal Retirement
Eligibility
Benefit

Age 65.
The highest percentage of pensionable earnings for each year after March 31, 2007 but before 2012, as follows:
(a) $1.20 \%$ if age plus service grandfather points at March 31, 2007 were greater than or equal to 65 points;
(b) $0.95 \%$ if age plus service grandfather points at March 31, 2007 were greater than or equal to 55 points; or
(c) $0.70 \%$ for all other participants.

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Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

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## Pre-April 1, 2007 Final Average Pay Formula

Normal Retirement

Eligibility
Benefit

Age 65
An annual amount equal to the sum of (a), (b) and (c), but never less than (d):
(a) $0.89 \%$ of participant's final average compensation times years of credited service (maximum 20); plus
(b) An amount of (i) or (ii) as follows:
(i) For participants hired prior to January 1, 1995: $1.07 \%$ of the final average compensation times years of credited service in excess of 20 (maximum of 15 years); or
(ii) For participants hired after December 31, 1994: $0.89 \%$ of the final average compensation times years of credited service in excess of 20 (maximum of 15 years); plus
(c) $0.50 \%$ of the final average compensation in excess of Social Security covered compensation times years of credited service (maximum of 35 years), but not less than;
(d) $\$ 29.00$ times years of credited service.

Early Retirement
Eligibility

Reduction for Early Payment

Pre-April 1, 2007: Age 57 and 10 years of vesting service.

Post-April 1, 2007: Age 55 and five years of vesting service.

The accrued benefit payable at normal retirement shall be reduced by:
(a) If the participant's age plus years of service is greater than or equal to $90,3 \%$ per year for each year by which benefit commencement precedes age 62 , but not on the excess compensation piece in part (c); otherwise
(b) $6 \%$ per year for each of year by which benefit commencement precedes age 62.

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Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Fifteen years of vesting service.
At the participant's normal retirement date, they will receive a benefit based upon their average monthly compensation at disability and credited service from their date of participation to their normal retirement date.

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but less than 15 years, the surviving spouse is entitled to an annuity commencing at the earliest date the participant would have been eligible to receive a retirement benefit under the plan. The annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to earliest eligibility, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant has 15 or more years of vesting service at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, unreduced for early retirement. If the spouse is more than five years younger, the benefit will be reduced in the form of a $50 \%$ joint and survivor annuity where the spouse is exactly five years younger.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with actuarial reductions to the early retirement age. For most deferred affiliates, the benefit is not payable until age 65. For other deferreds that are not deferred affiliates, the reductions are $8 \%$ from 65 to $62,6 \%$ from 62 to 57 , and $4 \%$ from 57 to 55 . With 10 years of vesting service, the accrued benefit at December 31, 1997, is payable at early retirement using the early retirement benefit reductions. Benefits are payable under the normal form.

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Definitions<br>Credited Service

Final Average Compensation

Compensation

Normal Form of Benefit

Optional Payment Forms

Optional Lump Sum

Social Security Covered
Compensation Level

Social Security Wage Base

All service since date of hire, measured in years and months.

All service while participating in the plan. Credited service is measured in completed years and months. Service prior to January 1, 1998 shall be credited on rules applicable at that time it was earned.

The average of a participant's five consecutive years' compensation which produce the highest average.

Total remuneration paid for services, excluding bonuses and other extraordinary payments, but including compensation deferred under Section 125 or 401 (k) plans. Compensation derived from commissions on product sales, taken into account as the minimum of $70 \%$ of total compensation or $\$ 100,000$.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), $100 \%$ or $75 \%$ joint and survivor annuity, 10-year certain single life annuity or Social Security level income option.

Participants with accrued benefits under $\$ 5,000$ receive a lump sum distribution of their benefit upon vested termination.

The average of the Social Security wage base for the 35 -year period for someone reaching age 65 in the calendar year of determination.

This annual amount is the maximum earnings amount on which employees and employers pay the OASDI portion of FICA taxes. It is calculated annually by the Social Security Administration.

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Legacy Banta Hourly Pension Plan—Book Group

Effective Date of Original Plan

Eligibility

Normal Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An hourly-paid employee of a participating unit will become a participant on the nearest January 1 after attaining age 21 and one year of service ( $1,000+$ hours).

After December 31, 2014, no additional individuals shall become participants of the plan.

Age 65 and five years of service.
For members of the Maintenance Unit, the monthly pension on a single-life basis is $\$ 33$ per month per year of service for terminations on or after February 4, 2008 (frozen at December 31, 2014).

For all other units, the monthly pension on a single-life basis is a frozen amount equal to the participant's accrued benefit at the following rates:

| Unit | Rate Date Frozen |  |
| :--- | ---: | ---: |
| Bookbinders | $\$ 9.00$ | December 31, 1983 |
| Letterpress | $\$ 5.50$ | December 31, 1977 |
| Lithographers $\$ 3.75$ (max of $\$ 125 /$ mo) | December 31, 1983 |  |

In addition to this frozen amount, the Bookbinders unit is guaranteed a minimum monthly benefit of $\$ 20$ per year of credited service payable at age 62. The Lithographers unit is guaranteed a minimum of $\$ 16$ per month, per year of credited service payable at age 65 (reduced 6\% per year if payable prior to age 65). Under both minimums, the participant must retire on or after age 62. The minimum is offset by all other company-sponsored pension benefits, including the frozen amount under this plan.

Age 60 and 10 years of vesting service.
Accrued benefit as of early retirement date multiplied by an early retirement factor on an actuarially equivalent

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Vested Termination Benefits
Eligibility
basis due to earlier commencement of payments from age 62.

Fifteen years of vesting service.
Commences on the first day of the month coincident with or next following the date of disability, provided all eligibility requirements are met. The benefit payable is equal to the accrued benefit as of the date of disability.

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 60 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 60 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 60, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 60 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

However, if the participant dies after 15 years of Vesting Service, in lieu of the above, the monthly pension payable can be equal to one-half of the monthly amount which the employee would have been entitled to receive if the participant had retired on the day preceding death as if the participant had been eligible for a normal pension on such date. Payments shall commence on the first of the month following the death (without early distribution reductions) of the participant and shall continue for 60 months or until the death of the surviving spouse, if earlier.

Five years of vesting service.

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Benefit
Accrued benefit payable at normal retirement age, or payable at early retirement age actuarially reduced. Benefits are payable under the normal form.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Definitions
Vesting Service

Credited Service

Accrued Benefit

Normal Form of Benefit

Optional Payment Forms
Vesting service shall be granted for the period after the date of their last period of continuous employment commenced to termination of employment.

Eligibility for benefits is determined by a participant's service. Service consists of an employee's last period of continuous employment. Credited service is used to determine the amount of benefits payable under the plan. Credited service shall be granted for the period after the date of their last period of continuous employment commenced to termination of employment.

The participant's accrued benefit at any given date is determined under the normal retirement formula described below, but is based on current credited service.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), 100\% or $75 \%$ joint and survivor annuity, or Social Security level income option.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Hourly Pension Plan—Danbury


Normal Retirement
Eligibility

Benefit

Early Retirement
Eligibility

Benefit Reduction for Early Payment

Disability Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

Hourly employees of Danbury Printing \& Litho, Inc. in the collective bargaining unit represented by Graphic Communications International Union Local 298-M, AFL-CIO shall be eligible to participate on the nearest January 1 after attaining age 21 and one year of service.

Age 65 and five years of service.

Monthly benefit (greater of (a) or (b) below):
(a) Monthly annuity on a single-life basis is equal to $0.89 \%$ of average monthly compensation plus 0.50\% of the excess of average monthly compensation over covered compensation. The sum is to be multiplied by credited service to a maximum of 35 years.
(b) Monthly annuity equal to $\$ 17.00$ for each year of credited service.

Age 60 and 10 years of vesting service.

Accrued benefit payable at normal retirement shall be reduced by $6.0 \%$ per year for each year by which benefit commencement precedes age 62. There is no reduction for commencement at age 62 or later.

Fifteen years of vesting service.

Commencing on the participant's normal retirement date, if then living and still disabled, the normal retirement benefit, payable for life, shall be calculated assuming that service and the monthly rate of basis compensation as of the date of disability with service continued to the normal retirement date. Benefit commences earlier if not eligible for benefits under long-term disability plan.

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Preretirement Surviving Spouse Benefit
Eligibility
Benefit
Benefi


Vested Termination Benefits
Eligibility
Benefit

Definitions
Vesting Service

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 60 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 60 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 60, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 60 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

However, if the participant dies after 15 years of vesting service, in lieu of the above, the monthly pension payable can be equal to one-half of the monthly amount which the employee would have been entitled to receive if the participant had retired on the day preceding death as if the participant had been eligible for a normal pension on such date. Payments shall commence on the first of the month following the death (without early distribution reductions) of the participant and shall continue for 120 months or until the death of the surviving spouse, if earlier.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

Total service from date of hire to date of termination.
Vesting service shall not include employment with Danbury Printing \& Litho, Inc. prior to March 8, 1994.

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$\left.\begin{array}{ll}\text { Credited Service } & \begin{array}{l}\text { Service after date of employment to termination of } \\ \text { employment. }\end{array} \\ \text { Credited service will be limited to service on or after } \\ \text { January 1, } 1999 \text { for Danbury Printing \& Litho, Inc. }\end{array}\right\}$

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Hourly Pension Plan—Specialty Converting (KCS)

Effective Date of Original Plan

Eligibility

Normal Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

A person who is employed on an hourly-related basis, who is not an administrative employee, and who is not covered by a collective bargaining agreement between the employer and the International Printing Pressman and Assistants Union will become a participant on the first day of the plan year next following their date of hire.

After December 31, 2013, no additional individuals shall become participants of the plan.

Age 65 and five years of service.
The monthly amount of normal pension payable is the sum of:
(a) $\$ 8.00$ for each year of service through December 31, 1991;
(b) \$15.00 for each year of service from 1992-2005;
(c) $\$ 16.00$ for each year of service from 2006-2007;
(d) \$18.00 for each year of service from 2008-2009; and
(e) $\$ 20.00$ for each year of service from 2010-2013.

Early Retirement Eligibility

Benefit Reduction for Early Payment

Age 55 and five years of vesting service.
Accrued benefit payable at normal retirement shall be reduced by $5.0 \%$ per year for each year by which benefit commencement precedes age 65.

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Disability Retirement
Eligibility
Benefit
Before Normal Retirement

After Normal Retirement

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 50 and 10 years of vesting service.

Benefit calculated in the same manner as early retirement benefit including early retirement reductions.

Commencing on the participant's normal retirement date, if then living and still disabled, the normal retirement benefit, payable for life, shall be calculated assuming service, as of the date of disability.

Unless an election is made to the contrary, a preretirement spouse's death benefit is provided in the event of the death of any active participant with five years of vesting service or a terminated participant who is eligible for a vested retirement benefit.

The beneficiary of a participant who dies while in active service is entitled to a lump-sum benefit equal to $\$ 100$ times the number of years of service after January 1, 1999 and prior to January 1, 2014, reduced by the amount of any disability benefits received. The lump sum benefit is not to exceed $\$ 2,000$.

If a participant does not waive the preretirement survivor coverage, any retirement benefits payable to or on behalf of the participant will be reduced by a coverage charge. The coverage charge is based upon the age of the participant during each year of coverage as follows:

| Attained Age | Percent Reduction |
| :--- | ---: |
| Under 35 | $0.00 \%$ |
| $35-40$ | $0.05 \%$ |
| $40-45$ | $0.10 \%$ |
| $45-50$ | $0.20 \%$ |
| $50-45$ | $0.35 \%$ |
| $55-65$ | $0.50 \%$ |

If coverage is not waived, the monthly pension payable shall equal $50 \%$ of the amount the participant would have received (based on the accrued benefit at death) had the participant elected the joint and survivor annuity and commenced payments at the earliest possible date.

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Vested Termination Benefits Eligibility

Benefit

Definitions
Vesting Service

Credited Service

Accrued Benefit

Normal Form of Benefit
Normal Retirement

Early, Disabled, or Deferred Retirement

Optional Payment Forms

A participant is $100 \%$ vested upon completion of five years of vesting service.

The termination benefit is equal to the vested accrued benefit, payable in the normal form, commencing at normal retirement date. Optionally, the participant may elect to receive a reduced benefit commencing prior to normal retirement date.

Plan years during which a participant completes not less than 1,000 hours of service.

Credited service, used to determine the amount of benefits, is based on the number of eight hour shifts worked during the plan year. A participant receives a full year of credited service for 250 shifts, or one-tenth of a year for each 25 shifts.

Eight hours of service constitutes a shift worked. Credited service does not include periods of employment (a) prior to January 1, 1960, (b) prior to a participant's most recent date of hire before January 1, 1975, or (c) as a salaried or administrative employee.

The participant's accrued benefit at any given date is determined under the normal retirement formula described below, but is based on current credited service.

Five-year certain and life. If married, $50 \%$ joint and survivor annuity.

Single life annuity. If married, $50 \%$ joint and survivor annuity.

Single life annuity, 10 -year certain and life, and $75 \%$ joint and survivor annuity.

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Legacy Haddon Craftsmen, Inc. Retirement Plan


Normal Retirement Eligibility

Benefit
January 1, 1980. Restated effective January 1, 2000. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An employee becomes a participant on the first day of the month coinciding with or next following date of employment, unless they are members of a union represented by a collective bargaining agreement which has not assented to coverage by the plan. Effective December 31, 1997 only G.C.I.U. employees in Bloomsburg are eligible to become new participants in the plan.

Age 65 and five years of service.
Equal to the sum of the Noncontributory retirement income described below, and the optional contributory retirement income, if any, described below.

A participant's monthly noncontributory retirement income is equal to the product of benefit service and the appropriate factor from the following table.

| Group | Factor | Effective Date |
| :--- | ---: | ---: |
| G.C.I.U. | $\$ 24.00$ | $01 / 01 / 2009-12 / 31 / 2009$ |
| Local 732-C | $\$ 25.00$ | Current |
|  |  | (Bloomsburg) |
|  |  | Frozen 12/31/1997 |

(Allentown)
Office \& Management
Frozen 12/31/1997
(All Locations)
A participant's monthly optional contributory retirement income is equal to the benefit accrued under this provision as of December 31, 1988, plus $1 / 12$ th of one and $1 / 2 \%(0.015)$ of the participant's compensation earned in each year, after 1988, during which the required participant contributions are made.

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Early Retiremen
Eligibility
Benefit Reduction for Early Payment
Disability Retirement
Eligibility
Benefit
Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and 20 years of vesting service.
Actuarial equivalence.

N/A.
N/A.

Three year of vesting service.
Equal to $50 \%$ of the benefit which the deceased participant would have received if they had begun to receive their vested benefits (in the form of a joint and $50 \%$ survivor annuity) on the day benefits commence to the surviving spouse. If the deceased participant was eligible for early retirement, those benefits commence immediately; if the participant was not eligible for early retirement, benefits commence when the participant would have become eligible to receive benefits.

If the death of a participant is before they are eligible for any other benefits under the plan, the participant's estate is entitled to the return of their contributions to the plan, with interest.

Three years of vesting service.
The deferred benefit, to commence at the participant's normal retirement date, is equal to the sum of (i) the deferred benefit, if any, purchased by their own contributions to the plan, and (ii) the remainder of an amount determined in the same manner as in normal retirement benefit for the deferred early retirement benefit, multiplied by a vesting percentage from the following table:

| Years of <br> Vesting Service | Rate |
| :--- | ---: |
| Less Than 3 | $0 \%$ |
| 3 | $20 \%$ |
| 4 | $40 \%$ |
| 5 | $60 \%$ |
| 6 | $80 \%$ |
| 7 or More | $100 \%$ |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Postretirement Death Benefits

## Contributions

Participant Contributions

## Definitions

Benefit Service

Vesting Service

Compensation

Normal Form of Benefit

If the employment of a participant is terminated before they are eligible for any other benefits under the plan, the participant is entitled to the return of their contributions to the plan, with interest.

In the event of the death of a participant after retirement, the beneficiary will receive any remaining guaranteed annuity payments, or survivor benefits, depending upon the option selected by the participant. If an option other than a joint and survivor option has been elected, the participant's beneficiary will receive the excess, if any, of the participant's personal contributions (including interest) over the amount of monthly benefits actually paid.

For certain employees insured before January 1, 1962, there is a death benefit of $\$ 5,000$. For certain employees insured after January 1, 1962, there is a death benefit of $\$ 1,000$. These employees are identified in historical valuation data.

Participants who wish to receive benefits from the optional contributory retirement income portion of the plan contribute $3 \%$ of each year's earnings in excess of \$3,600.

Participants accrue units of benefit service for each calendar year during which they have hours of service. A full unit of benefit service is accrued for each year in which a participant has at least 1,785 hours of service; if a participant has less than 1,785 hours of service in a year, a pro-rata fraction of a unit of benefit service is accrued.

A participant accrues one year of vesting service for each calendar year during which they have at least 1,000 hours of service with the company.

Compensation means a participant's total earnings for a year, as reported on Form W-2, subject to limitations under IRS section 401(a)(17).

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

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Optional Payment Forms

Actuarial Equivalence

Credited Interest

Single life annuity (for married participants), 50,75 , and $100 \%$ joint and survivor annuity, or lump sum.
$6.5 \%$ and 1971 Group Annuity (male) Mortality Table with ages set back two years.
$120 \%$ of the Federal mid-term rate.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Retirement Income Plan of Moore Wallace North America, Inc.

| Effective Date of Original Plan | December 30, 1947. Restated effective January 1, 2010 Effective December 31, 2012, the plan was merged into the Retirement Benefit Plan of R. R. Donnelley \& Sons Company. |
| :---: | :---: |
| Eligibility | An employee becomes a participant on attaining age 21 and one year of service. Plan participation is closed to new hires after December 31, 2011. |
| Benefit Accruals | Benefit accruals were frozen for all participants as of December 31, 2011. |
| Participant Contributions | None after January 1, 1972. |
| Retirement Income | Generally applies to service earned prior to July 1, 1997. Employees who met the following criteria as of June 30, 1997 had the option to keep coverage under the retirement income plan formula for service earned through December 31, 2000: <br> - Age 65; or <br> - Age 50 with 10 years of service; or <br> - Age 45 with 20 years of service. |
| Pension Equity | Generally applies to service earned between July 1, 1997 and December 31, 2000. All accruals under this formula were frozen as of December 31, 2000. |
| Career Average | Effective January 1, 2005, all existing employees began accruing benefits under the new career average formula Additionally, all newly hired employees will accrue benefits under this new formula. |

## Career Average Formula

Normal Retirement
Eligibility

Benefit

Age 65.
$0.70 \%$ of pensionable earnings for each year after 2004.

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Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of his death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if he had terminated employment on the day before his death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of his death, his surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Retirement Income Formula

Normal Retirement

Eligibility
Benefit

Age 65.
The sum of (a), (b), (c) and (d) below:
(a) Before January 1, 1985

The greater of (i), (ii), and (iii) below:
(i) 1.1\% of final average pay, up to the 1985 average Social Security wage base plus $1.6 \%$ of final average pay in excess of the 1985 average Social Security wage base, multiplied by years of credited service as of December 31, 1984, not to exceed 35 years.
(ii) $\$ 48.00$ multiplied by the participant's credited service, not to exceed 35 years.
(iii) For a participant who was also a participant in the prior contributory plan, the amount that would have been provided if the prior plan and the participant's rate of compensation had continued unchanged.
(b) Between January 1, 1985 and December 31, 1988
$1.1 \%$ of each year's annual earnings up to that year's Social Security wage base plus $1.8 \%$ of each year's annual earnings in excess of that year's Social Security wage base plus a $10 \%$ increase to the accrued benefit as of December 31, 1988, if employed by Moore Wallace on that date and thereafter.
(c) After January 1, 1989
$1.8 \%$ of each year's annual earnings up to that year's Social Security wage base plus $2.0 \%$ of each year's annual earnings in excess of that year's Social Security wage base.
(d) Special Formula Enhancement
$18 \%$ of annual earnings for calendar year 2000 (limited to $\$ 170,000$ ). This benefit is payable as a lump sum, but has been converted to an equivalent deferred five-year certain and continuous annuity payable at 65 . This benefit was provided to all grandfathered participants employed as of December 1, 2000.

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Early Retirement
Eligibility
Benefit Reduction for Early Paymen

Disability Retirement ${ }^{2}$
Eligibility
Benefit

Age 55 and 10 years of service.
The accrued benefit payable at normal retirement shall be reduced by $4 \%$ for each year that you receive benefits before the earliest of:
(a) Age 65; or
(b) Age 62 and 30 years of service.

Totally and permanently disabled before June 4, 2001.
The accrued normal or early retirement benefit payable immediately. If the employee was a participant in the company's LTD plan, they will continue to accrue benefits under the retirement plan based on compensation prior to disablement. These benefits are payable at age 65 or upon termination of LTD benefits if later.

If the disabled participant qualifies for Social Security disability benefits (or would qualify if the participant was covered under the Federal Social Security Act), the early retirement reduction will not apply.

Five years of service.
Accrued benefit payable at the normal retirement age, or payable at early retirement age with $6 \%$ per year reductions as for early retirement. Benefits are payable under the normal form.

Five years of vesting service.

[^3]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Preretirement Death Benefit
Benefit ${ }^{3}$
Married

Single
If the participant is age less than 55 , the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to two-thirds of the annuity the participant would have received if he had terminated employment on the day before his death, survived to age 55, and elected an early retirement pension payable in the form of a joint and two-thirds survivor annuity.

If an active participant is age 55 or older at the time of death, his surviving spouse is entitled to an immediate life annuity equal to two-thirds of the participant's accrued benefit, reduced for early retirement in the form of a joint and two-thirds survivor annuity.

Lump sum death benefit equal to the present value of five years of payments a spouse would have received if the participant had been married.

## Pension Equity Formula

Normal Retirement
Eligibility
Benefit
Age 65.
Benefits accrued from July 1, 1997 through December 31, 2000 are based on the number of credits earned (four per year of credited service) and the participants final average compensation. Accrued benefits will equal the product of (a), (b), and (c) below:
(a) $4 \%$;
(b) Years of credited service between July 1, 1997 and December 31, 2000;
(c) Final average compensation, (frozen as of December 31, 2000).

Effective October 15, 2003, the plan was amended to define the accrued benefit as the actuarial equivalent five-year certain and continuous annuity calculated as of December 31, 2000. The lump sum will be recalculated based on the participant's age and interest rate at the time of calculation.

[^4]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

| Early Retirement |  |
| :---: | :---: |
| Eligibility | Age 55 and 10 years of vesting service. |
| Benefit Reduction for Early Payment | The accrued benefit payable at normal retirement shall be reduced by $6 \%$ per year for each year by which benefit commencement precedes age 65. |
| Disability Retirement ${ }^{4}$ |  |
| Eligibility | Totally and permanently disabled before June 4, 2001. |
| Benefit | The accrued normal or early retirement benefit payable immediately. If the employee was a participant in the company's LTD plan, they will continue to accrue benefits under the retirement plan based on compensation prior to disablement. These benefits are payable at age 65 or upon termination of LTD benefits if later. |
|  | If the disabled participant qualifies for Social Security disability benefits (or would qualify if the participant was covered under the Federal Social Security Act), early retirement reduction will not apply. |
| Preretirement Death Benefit |  |
| Eligibility | Eligible for a vested benefit. |
| Benefit | The lump sum that the participant would have received if the participant had terminated employment on their date of death. |
| Vested Termination Benefits |  |
| Eligibility | Five years of vesting service. |
| Benefit | Accrued benefit can be payable immediately as a lump sum or a monthly annuity. Monthly annuities commencing prior to age 55 are the actuarial equivalent of the reduced age 55 monthly annuity. |
| Definitions |  |
| Vesting Service | All service since date of hire, measured in years and months. |
| Credited Service | All service while participating in the plan. Credited service is measured in completed years and months. |
| Annual Earnings | Compensation including overtime, commissions, bonuses, and elective deferrals. |

[^5]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

| Final Average Pay | The average of the highest five consecutive years of pay <br> out of the last 10 years of employment before January 1, <br> 1985. |
| :--- | :--- |
| Social Security Covered | The average of the Social Security wage base for the <br> 35-year period for someone reaching age 65 in the <br> calendar year of determination. |
| Compensation Level | This annual amount is the maximum earnings amount on <br> which employees and employers pay the OASDI portion <br> of FICA taxes. It is calculated annually by the Social <br> Security Administration. |

Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan
EIN: 36-1004130 PN: 022

## Legacy Check Printers

Effective Date of Amended Plan

Eligibility

Participant Contributions

## Check Printers Formula

Normal Retirement
Eligibility
Benefit

Early Retirement
Eligibility
Benefit Reduction for Early Payment

Vested Deferred Retirement
Eligibility
Benefit

Effective December 31, 2004, the plan's accrued benefits were frozen.

Each eligible employee will become a participant on the first day of the month coincident with or next following the first eligibility computation period during which he completes 1,000 hours.

None.

Age 65 and five years of service.
The sum of (a) plus (b) minus (c):
(a) $\$ 4.00$ multiplied by the years of credited service;
(b) If the participant is a salaried employee, $1 / 12$ th of $1.5 \%$ of compensation each year;
(c) The monthly benefit purchased in the form of an annuity which guaranteed benefits accrued through December 31, 1986.

Effective December 31, 2004, the plans accrued benefits were frozen.

Age 55 and 15 years of service.
The accrued benefit payable at normal retirement shall be reduced by $6.0 \%$ for each year for the first five years and $4.8 \%$ for each of the next five years.

Five years of service.
Accrued benefit payable at age 65.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

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Preretirement Death Benefit
Eligibility

Benefit

Definitions
Vesting Service

Credited Service

Compensation

Five years of vesting service and married at least one year.
$50 \%$ of the amount the participant would have received if he had survived to the earliest retirement date and elected the $50 \%$ joint and survivor optional form of payment.

Vesting service is the period of an employee's service calculated as elapsed time in years and days.

Credited service is the period of an employee's service calculated in completed months.

Compensation means the W-2 earnings plus any compensation deferred under a Section 125 or Section 401(k) plan. Compensation does not include amounts paid as reimbursements, fringe benefits, moving expenses, welfare benefits, and all other extraordinary compensation.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Legacy Cardinal Brands

Effective Date of Amended Plan

Eligibility

Participant Contributions

Cardinal Brands Formula
Normal Retirement
Eligibility

Benefit

Early Retirement
Eligibility
Benefit Reduction for Early Payment

Disability Retirement Eligibility
Eligibility

Benefit

Vested Deferred Retirement
Eligibility
Benefit

Effective January 31, 2008, the plan's accrued benefits were frozen. Effective March 31, 2008, the plan was merged into the Retirement Income Plan of Moore North America.

Each eligible employee will become a participant on the applicable entry date upon reaching age 21 and completing one year of service.

Discontinued April 1, 1989.

Age 65.
The sum of (a) plus (b):
(a) Accrued benefit as of March 31, 1989;
(b) 1.3\% of compensation each year after March 31, 1989 for which the participant is credited with a year of service.

Effective January 31, 2008, the plans accrued benefits were frozen.

Age 55.
The accrued benefit payable at normal retirement shall be reduced by the factors in Table 1.

Age 50 and 15 years of service. Must be disabled for at least five consecutive months.

Normal retirement benefit accrued as of his disability retirement date, reduced by any Workmen's Compensation benefits payable prior to normal retirement date.

Five years of service.
Accrued benefit payable at age 65.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

EIN: 36-1004130 PN: 022

| Preretirement Death Benefit <br> Eligibility | Five years of service and married at least one year. |
| :--- | :--- |
| Benefit | $100 \%$ of the amount the participant would have received <br> if he had survived to the earliest retirement date and <br> elected the 100\% joint and survivor optional form of <br> payment. |
| Definitions | A year of service is a 12-consecutive month period <br> during which an employee is credited with at least 1,000 <br> hours of service. |
| Compensation | Compensation means the W-2 earnings plus any <br> compensation deferred under a Section 125 or <br> Section 401 (k) plan. |

## Plan Changes Since the Prior Year

The funding valuation does not reflect any plan changes.

## Other Information to Fully and Fairly Disclose the Actuarial Position of the Plan

Due to software limitations with the electronic filing process, information filed electronically cannot be controlled by the Enrolled Actuary. The values on the signed Schedule SB will govern to the extent there are any differences in the entries filed electronically and the actual data contained on the signed Schedule SB.

Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan
EIN: 36-1004130 PN: 022

Schedule SB, line 26—Schedule of Active Participant Data as of December 1, 2018
Number of Participants, Average Accrued Benefit and Average Cash Balance Account

| Attained Age | Years of Credited Service |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $<1$ | 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40+ |
| <25 |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  | 5 | 2 |  |  |  |  |  |  |
| 30-34 |  |  | $\begin{array}{r} 41 \\ \$ 545 \\ \$ 89 \end{array}$ | $\begin{array}{r} 93 \\ \$ 1,122 \\ \$ 90 \end{array}$ | 2 |  |  |  |  |  |
| 35-39 |  |  | $\begin{array}{r} 47 \\ \$ 543 \\ \$ 342 \end{array}$ | $\begin{array}{r} 197 \\ \$ 1,533 \\ \$ 193 \end{array}$ | $\begin{array}{r} 126 \\ \$ 2,593 \\ \$ 388 \end{array}$ | 6 |  |  |  |  |
| 40-44 |  |  | $\begin{array}{r} 38 \\ \$ 576 \\ \$ 622 \\ \hline \end{array}$ | $\begin{array}{r} 173 \\ \$ 1,655 \\ \$ 567 \\ \hline \end{array}$ | $\begin{array}{r} 233 \\ \$ 2,975 \\ \$ 1,279 \end{array}$ | $\begin{array}{r} 139 \\ \$ 4,582 \\ \$ 944 \\ \hline \end{array}$ | 10 |  |  |  |
| 45-49 |  |  | $\begin{array}{r} 65 \\ \$ 678 \\ \$ 447 \\ \hline \end{array}$ | $\begin{array}{r} 204 \\ \$ 1,911 \\ \$ 454 \\ \hline \end{array}$ | $\begin{array}{r} 210 \\ \$ 3,262 \\ \$ 1,482 \\ \hline \end{array}$ | $\begin{array}{r} 306 \\ \$ 5,248 \\ \$ 1,990 \\ \hline \end{array}$ | $\begin{array}{r} 140 \\ \$ 6,553 \\ \$ 1,311 \\ \hline \end{array}$ | 12 |  |  |
| 50-54 |  |  | $\begin{array}{r} 55 \\ \$ 616 \\ \$ 1,798 \end{array}$ | $\begin{array}{r} 195 \\ \$ 1,953 \\ \$ 731 \end{array}$ | $\begin{array}{r} 221 \\ \$ 3,518 \\ \$ 2,448 \end{array}$ | $\begin{array}{r} 267 \\ \$ 4,843 \\ \$ 1,595 \end{array}$ | $\begin{array}{r} 219 \\ \$ 7,194 \\ \$ 1,393 \end{array}$ | $\begin{array}{r} 194 \\ \$ 7,180 \\ \$ 2,396 \end{array}$ | 12 |  |
| 55-59 |  |  | $\begin{array}{r} 46 \\ \$ 629 \\ \$ 450 \end{array}$ | $\begin{array}{r} 236 \\ \$ 1,975 \\ \$ 678 \end{array}$ | $\begin{array}{r} 217 \\ \$ 3,124 \\ \$ 1,292 \end{array}$ | $\begin{array}{r} 266 \\ \$ 4,953 \\ \$ 1,783 \end{array}$ | $\begin{array}{r} 149 \\ \$ 7,116 \\ \$ 1,133 \end{array}$ | $\begin{array}{r} 239 \\ \$ 8,105 \\ \$ 3,847 \end{array}$ | $\begin{array}{r} 163 \\ \$ 8,184 \\ \$ 3,870 \end{array}$ | $\begin{array}{r} 24 \\ \$ 5,766 \\ \$ 409 \end{array}$ |
| 60-64 |  |  | $\begin{array}{r} 38 \\ \$ 634 \\ \$ 435 \end{array}$ | $\begin{array}{r} 156 \\ \$ 1,981 \\ \$ 309 \\ \hline \end{array}$ | $\begin{array}{r} 164 \\ \$ 3,319 \\ \$ 1,042 \end{array}$ | $\begin{array}{r} 142 \\ \$ 4,726 \\ \$ 2,803 \end{array}$ | $\begin{array}{r} 91 \\ \$ 5,943 \\ \$ 2,185 \end{array}$ | $\begin{array}{r} 116 \\ \$ 7,181 \\ \$ 1,775 \end{array}$ | 98 $\$ 8,020$ $\$ 628$ | 117 $\$ 7,406$ $\$ 183$ |
| 65-69 |  |  | 9 | 51 $\$ 2,082$ $\$ 14$ | $\begin{array}{r} 48 \\ \$ 2,680 \\ \$ 300 \\ \hline \end{array}$ | $\begin{array}{r} 44 \\ \$ 4,175 \\ \$ 532 \end{array}$ | $\begin{array}{r} 20 \\ \$ 6,965 \\ \$ 1,278 \end{array}$ | $\begin{array}{r} 29 \\ \$ 5,022 \\ \$ 480 \\ \hline \end{array}$ | 13 | $\begin{array}{r}36 \\ \$ 6,722 \\ \$ 0 \\ \hline\end{array}$ |
| 70+ |  |  | 2 | 3 | 5 | 2 | 2 | 2 |  | 3 |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

## Schedule SB, line 22—Description of Weighted Average Retirement Age

The average retirement age shown in line 22 has been calculated by assuming the following retirement rates and no decrements other than retirement for this calculation. All retirements are assumed to occur at mid-year, except for the 100\% retirement age.

| (a) | (b) <br> Rate | (c) <br> Weight | (d) <br> (a) $\times(b) \times(\mathbf{c})$ |
| :--- | ---: | ---: | ---: |
| 55.5 | $6.00 \%$ | 1.0000 | 3.33 |
| 56.5 | $6.00 \%$ | 0.9400 | 3.19 |
| 57.5 | $6.00 \%$ | 0.8836 | 3.05 |
| 58.5 | $6.00 \%$ | 0.8306 | 2.92 |
| 59.5 | $10.00 \%$ | 0.7807 | 4.65 |
| 60.5 | $10.00 \%$ | 0.7027 | 4.25 |
| 61.5 | $15.00 \%$ | 0.6324 | 5.83 |
| 62.5 | $30.00 \%$ | 0.5375 | 10.08 |
| 63.5 | $20.00 \%$ | 0.3763 | 4.78 |
| 64.5 | $30.00 \%$ | 0.3010 | 5.82 |
| 65.5 | $50.00 \%$ | 0.2107 | 6.90 |
| 66.5 | $30.00 \%$ | 0.1054 | 2.10 |
| 67.5 | $30.00 \%$ | 0.0738 | 1.49 |
| 68.5 | $30.00 \%$ | 0.0516 | 1.06 |
| 69.5 | $30.00 \%$ | 0.0361 | 0.75 |
| 70 | $100.00 \%$ | 0.0253 | 1.77 |
|  | Weighted Average | 61.97 |  |

Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan
EIN: 36-1004130 PN: 022

Schedule SB, line 26—Schedule of Active Participant Data as of December 1, 2018
Number of Participants, Average Accrued Benefit and Average Cash Balance Account

| Attained Age | Years of Credited Service |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $<1$ | 1-4 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35-39 | 40+ |
| <25 |  |  |  |  |  |  |  |  |  |  |
| 25-29 |  |  | 5 | 2 |  |  |  |  |  |  |
| 30-34 |  |  | $\begin{array}{r} 41 \\ \$ 545 \\ \$ 89 \end{array}$ | $\begin{array}{r} 93 \\ \$ 1,122 \\ \$ 90 \end{array}$ | 2 |  |  |  |  |  |
| 35-39 |  |  | $\begin{array}{r} 47 \\ \$ 543 \\ \$ 342 \end{array}$ | $\begin{array}{r} 197 \\ \$ 1,533 \\ \$ 193 \end{array}$ | $\begin{array}{r} 126 \\ \$ 2,593 \\ \$ 388 \end{array}$ | 6 |  |  |  |  |
| 40-44 |  |  | $\begin{array}{r} 38 \\ \$ 576 \\ \$ 622 \\ \hline \end{array}$ | $\begin{array}{r} 173 \\ \$ 1,655 \\ \$ 567 \\ \hline \end{array}$ | $\begin{array}{r} 233 \\ \$ 2,975 \\ \$ 1,279 \end{array}$ | $\begin{array}{r} 139 \\ \$ 4,582 \\ \$ 944 \\ \hline \end{array}$ | 10 |  |  |  |
| 45-49 |  |  | $\begin{array}{r} 65 \\ \$ 678 \\ \$ 447 \\ \hline \end{array}$ | $\begin{array}{r} 204 \\ \$ 1,911 \\ \$ 454 \\ \hline \end{array}$ | $\begin{array}{r} 210 \\ \$ 3,262 \\ \$ 1,482 \\ \hline \end{array}$ | $\begin{array}{r} 306 \\ \$ 5,248 \\ \$ 1,990 \\ \hline \end{array}$ | $\begin{array}{r} 140 \\ \$ 6,553 \\ \$ 1,311 \\ \hline \end{array}$ | 12 |  |  |
| 50-54 |  |  | $\begin{array}{r} 55 \\ \$ 616 \\ \$ 1,798 \end{array}$ | $\begin{array}{r} 195 \\ \$ 1,953 \\ \$ 731 \end{array}$ | $\begin{array}{r} 221 \\ \$ 3,518 \\ \$ 2,448 \end{array}$ | $\begin{array}{r} 267 \\ \$ 4,843 \\ \$ 1,595 \end{array}$ | $\begin{array}{r} 219 \\ \$ 7,194 \\ \$ 1,393 \end{array}$ | $\begin{array}{r} 194 \\ \$ 7,180 \\ \$ 2,396 \end{array}$ | 12 |  |
| 55-59 |  |  | $\begin{array}{r} 46 \\ \$ 629 \\ \$ 450 \end{array}$ | $\begin{array}{r} 236 \\ \$ 1,975 \\ \$ 678 \end{array}$ | $\begin{array}{r} 217 \\ \$ 3,124 \\ \$ 1,292 \end{array}$ | $\begin{array}{r} 266 \\ \$ 4,953 \\ \$ 1,783 \end{array}$ | $\begin{array}{r} 149 \\ \$ 7,116 \\ \$ 1,133 \end{array}$ | $\begin{array}{r} 239 \\ \$ 8,105 \\ \$ 3,847 \end{array}$ | $\begin{array}{r} 163 \\ \$ 8,184 \\ \$ 3,870 \end{array}$ | $\begin{array}{r} 24 \\ \$ 5,766 \\ \$ 409 \end{array}$ |
| 60-64 |  |  | $\begin{array}{r} 38 \\ \$ 634 \\ \$ 435 \end{array}$ | $\begin{array}{r} 156 \\ \$ 1,981 \\ \$ 309 \\ \hline \end{array}$ | $\begin{array}{r} 164 \\ \$ 3,319 \\ \$ 1,042 \end{array}$ | $\begin{array}{r} 142 \\ \$ 4,726 \\ \$ 2,803 \end{array}$ | $\begin{array}{r} 91 \\ \$ 5,943 \\ \$ 2,185 \end{array}$ | $\begin{array}{r} 116 \\ \$ 7,181 \\ \$ 1,775 \end{array}$ | 98 $\$ 8,020$ $\$ 628$ | 117 $\$ 7,406$ $\$ 183$ |
| 65-69 |  |  | 9 | 51 $\$ 2,082$ $\$ 14$ | $\begin{array}{r} 48 \\ \$ 2,680 \\ \$ 300 \\ \hline \end{array}$ | $\begin{array}{r} 44 \\ \$ 4,175 \\ \$ 532 \end{array}$ | $\begin{array}{r} 20 \\ \$ 6,965 \\ \$ 1,278 \end{array}$ | $\begin{array}{r} 29 \\ \$ 5,022 \\ \$ 480 \\ \hline \end{array}$ | 13 | $\begin{array}{r}36 \\ \$ 6,722 \\ \$ 0 \\ \hline\end{array}$ |
| 70+ |  |  | 2 | 3 | 5 | 2 | 2 | 2 |  | 3 |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods
For ERISA Requirements-Legacy Bowne

Interest Rates for Minimum Funding Purposes
1st Segment Rate
2nd Segment Rate
3rd Segment Rate
Interest Rates for Maximum Tax Purposes
1st Segment Rate
2nd Segment Rate
3rd Segment Rate
Cash Balance Interest Crediting Rate
Optional Payment Form Election Percentage
Optional Payment Form Conversion Interest Rate

Optional Payment Form Conversion Mortality
Retirement Age
Active Participants
Terminated Vested Participants
Mortality Rates
Healthy and Disabled

Withdrawal Rates
Disability Rates
Surviving Spouse Benefit

Based on segment rates with a four-month lookback (as of August 2018), each adjusted as needed to fall within the 25 -year average interest rate stabilization corridor
3.92\%
5.52\%
6.29\%

Based on segment rates with a four-month lookback (as of August 2018), without regard to interest rate stabilization
2.21\%
3.77\%
4.45\%
3.50\%
$100 \%$ election of the lump sum option
Same as funding interest rates above for lump sums

Current 417(e) table for lump sums

See Table 1
Age 65

2018 static mortality table (with new basis adoption deferred to 2019) for annuitants and non-annuitants per section $1.430(\mathrm{~h})(3)-1(\mathrm{e})$

See Table 2
None
It is assumed that $100 \%$ of males and $100 \%$ of females have an eligible spouse, and that males are three years older than their spouses.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Valuation of Plan Assets
Expected Return on Assets
December 1, 2016 Plan Year
December 1, 2017 Plan Year
December 1, 2018 Plan Year
Trust Expenses Included in Target Normal Cost
Participants Over the Age to Commence Required
Minimum Distributions

Actuarial Method

Valuation Date

Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than $90 \%$ nor more than $110 \%$ of fair market value.

A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected longterm rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).
6.75\%, limited to 6.65\%
6.75\%, limited to 6.48\%
6.25\%

Based on prior year's actual plan administrative expenses (excluding PBGC premiums) plus the PBGC premium for the current year, rounded up to the nearest $\$ 1,000$.

Inactive deferred vested participants who are over the age of $701 / 2$ are assumed to be irretrievable. These participants are included in the participant counts but their benefits have been excluded from the calculation of the liabilities.

Standard unit credit cost method
December 1, 2018

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## For ERISA Requirements—Legacy RBP and Legacy Banta Salaried

| Cash Balance Interest Crediting Rate | 3.30\% |
| :---: | :---: |
| Optional Payment Form Election Percentage | $100 \%$ election of lump sum option upon termination or retirement for those participants accruing benefits under the Cash Balance formula and $100 \%$ election of single life annuity for all other benefits |
| Retirement Age |  |
| Terminated Vested Participants | Age 62 |
| Disability Rates | See Table 3 |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |
| For ERISA Requirements-Legacy Banta Hourly |  |
| Optional Payment Form Election Percentage | Specialty Converting (KCS)—100\% election of five-year Certain \& Life for normal retirement. Single life annuity for other decrements. |
| Retirement Age |  |
| Terminated Vested Participants | Age 62 |
| Disability Rates | See Table 3 |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |
| For ERISA Requirements-Legacy Haddon |  |
| Surviving Spouse Benefit | It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses. |
| Other Assumptions | Same as Legacy Bowne |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan 

EIN: 36-1004130 PN: 022

## For ERISA Requirements—Legacy Moore Wallace

Optional Payment Form Election Percentage

Retirement Age
Terminated Vested Participants

Surviving Spouse Benefit

Other Assumptions

100\% election of a lump sum for the pension equity and special enhancement benefits.
$100 \%$ election of five-year certain and life for all pre-2005 benefits and 100\% election of single life annuity for post-2005 benefits.

Age 62

It is assumed that $80 \%$ of males and $80 \%$ of females have an eligible spouse, and that males are three years older than their spouses.

Same as Legacy Bowne

Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan
EIN: 36-1004130 PN: 022

Table 1

| Retirement Rates <br> Age | Rate |
| :--- | ---: |
| 55 | $6.00 \%$ |
| 56 | $6.00 \%$ |
| 57 | $6.00 \%$ |
| 58 | $6.00 \%$ |
| 59 | $10.00 \%$ |
|  |  |
| 60 | $10.00 \%$ |
| 61 | $15.00 \%$ |
| 62 | $30.00 \%$ |
| 63 | $20.00 \%$ |
| 64 | $30.00 \%$ |
|  |  |
| 65 | $50.00 \%$ |
| 66 | $30.00 \%$ |
| 67 | $30.00 \%$ |
| 68 | $30.00 \%$ |
| 69 | $30.00 \%$ |
| $70+$ |  |
|  |  |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

Table 2—Page 1 of 2
Withdrawal Rates

| Age | Years of Service |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | 0 | 1-3 | 4 | 5+ |
| 20 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 21 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 22 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 23 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 24 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 25 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 26 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 27 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 28 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 29 | 25.00\% | 20.00\% | 15.00\% | 15.00\% |
| 30 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 31 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 32 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 33 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 34 | 25.00\% | 20.00\% | 15.00\% | 12.00\% |
| 35 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 36 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 37 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 38 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 39 | 25.00\% | 20.00\% | 15.00\% | 10.00\% |
| 40 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 41 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 42 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 43 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |
| 44 | 25.00\% | 20.00\% | 15.00\% | 9.00\% |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

Table 2—Page 2 of 2
Withdrawal Rates

|  | Years of Service |  |  |  |
| :--- | ---: | ---: | ---: | ---: |
| Age | $\mathbf{0}$ | $\mathbf{1 - 3}$ | $\mathbf{4}$ | $\mathbf{5 +}$ |
| 45 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 46 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 47 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 48 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 49 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
|  |  |  |  |  |
| 50 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 51 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 52 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 53 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
| 54 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $7.00 \%$ |
|  |  |  |  |  |
| 55 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 56 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 57 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 58 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
| 59 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $6.00 \%$ |
|  |  |  |  |  |
| 60 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 61 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 62 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 63 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
| 64 | $25.00 \%$ | $20.00 \%$ | $15.00 \%$ | $3.00 \%$ |
|  |  |  |  |  |
| $65+$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ | $0.00 \%$ |

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022

## Table 3

| Disability Rates |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Age | Male | Female | Age | Male | Female |
| 15 | 0.03\% | 0.03\% | 45 | 0.16\% | 0.24\% |
| 16 | 0.03\% | 0.03\% | 46 | 0.18\% | 0.27\% |
| 17 | 0.03\% | 0.03\% | 47 | 0.21\% | 0.30\% |
| 18 | 0.03\% | 0.03\% | 48 | 0.25\% | 0.33\% |
| 19 | 0.03\% | 0.03\% | 49 | 0.28\% | 0.36\% |
| 20 | 0.03\% | 0.03\% | 50 | 0.33\% | 0.40\% |
| 21 | 0.03\% | 0.03\% | 51 | 0.39\% | 0.44\% |
| 22 | 0.03\% | 0.03\% | 52 | 0.46\% | 0.49\% |
| 23 | 0.03\% | 0.03\% | 53 | 0.53\% | 0.54\% |
| 24 | 0.03\% | 0.03\% | 54 | 0.61\% | 0.59\% |
| 25 | 0.03\% | 0.03\% | 55 | 0.69\% | 0.64\% |
| 26 | 0.03\% | 0.03\% | 56 | 0.77\% | 0.69\% |
| 27 | 0.03\% | 0.03\% | 57 | 0.86\% | 0.74\% |
| 28 | 0.03\% | 0.04\% | 58 | 0.95\% | 0.80\% |
| 29 | 0.03\% | 0.04\% | 59 | 1.05\% | 0.85\% |
| 30 | 0.03\% | 0.04\% | 60 | 1.15\% | 0.90\% |
| 31 | 0.03\% | 0.05\% | 61 | 1.26\% | 0.96\% |
| 32 | 0.03\% | 0.05\% | 62 | 1.38\% | 1.01\% |
| 33 | 0.03\% | 0.06\% | 63 | 1.51\% | 1.05\% |
| 34 | 0.03\% | 0.06\% | 64 | 1.64\% | 1.09\% |
| 35 | 0.04\% | 0.07\% | $65+$ | 0.00\% | 0.00\% |
| 36 | 0.04\% | 0.08\% |  |  |  |
| 37 | 0.05\% | 0.09\% |  |  |  |
| 38 | 0.06\% | 0.10\% |  |  |  |
| 39 | 0.07\% | 0.12\% |  |  |  |
| 40 | 0.08\% | 0.13\% |  |  |  |
| 41 | 0.09\% | 0.15\% |  |  |  |
| 42 | 0.10\% | 0.17\% |  |  |  |
| 43 | 0.12\% | 0.19\% |  |  |  |
| 44 | 0.14\% | 0.22\% |  |  |  |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Schedule SB, Part V—Summary of Plan Provisions

Legacy Bowne Pension Plan

Effective Date of Original Plan

Eligibility

November 1, 1951. Restated effective January 1, 2008 and amended through November 30, 2015.

An employee becomes a participant upon completing one year of service.

The plan is closed to new participants as of January 1, 2012.

Age 65.
The sum of (a) and (b) below:
(a) The participant's frozen December 31, 2007 accrued benefit; and
(b) An amount equal to the actuarial equivalent of the participant's cash balance account converted using applicable IRC section 417(e) interest and mortality:

## Cash Balance Account

Prior to December 31, 2011, the account was credited at the end of each month with an amount equal to $3 \%$ of that month's compensation After December 31, 2011, the cash balance account will receive no additional compensation credits.

The account is credited at the end of each month with interest based on the 10-year Treasury rate plus 25 basis points, subject to a $2 \%$ floor and $7 \%$ cap.

Early Retirement
Eligibility

Annual Benefit

Age 55 and five years of credited service or, if earlier, when a participant with service prior to November 1, 1989 has completed 30 years of service.

An amount equal to the actuarial equivalent of the participant's normal retirement benefit payable at the participant's early retirement date.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Disability Retirement
Eligibility
Annual Benefit

Preretirement Death Benefit
Eligibility
Annual Benefit

Eligible for a vested benefit.
An amount equal to the actuarial equivalent of the participant's normal retirement benefit payable at the participant's disability retirement date.

Eligible for a vested benefit.

## Frozen Accrued Benefit

If a participant is married, the surviving spouse is entitled to an immediate life annuity equal to one-half of the annuity the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

If a participant is unmarried at the time of his death, his beneficiary is entitled to a lump sum equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity assuming the participant has a spouse the same age.

## Cash Balance Account

The beneficiary is entitled to the full account balance.

Three years of credited service for the Cash Balance account and five years of credited service for the frozen accrued benefit.

Accrued benefit payable at normal retirement age.

Age 65.
Frozen Accrued Benefit
An amount equal to the actuarial equivalent frozen accrued benefit payable at the participant's normal retirement date adjusted to the participant's postponed retirement date.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan 

EIN: 36-1004130 PN: 022

## Definitions

Credited Service

Compensation

Normal Form of Benefit

Optional Payment Forms

Plan Year

## Cash Balance Account

The participant will continue to earn pay and interest credits and the balance will be converted at the postponed retirement date.

Credited service is measured in completed years and months.

Compensation including overtime, bonuses, and certain sales incentives prior to January 1, 1996.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), $100 \%, 50 \%$, or $75 \%$ joint and survivor annuity, 10 year certain and life, or a lump sum.

December 1 to November 30.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Retirement Benefit Plan of R.R. Donnelley \& Sons Company

| Effective Date of Original Plan | December 31, 1940. Restated effective January 1, 2005. <br>  <br> Effective December 31, 2013, the plan was merged into <br> the Bowne Pension Plan. |
| :--- | :--- |
| Eligibility |  |
|  | An employee became a participant on the nearest <br> January 1 after attaining age 21 and one year of service <br> $(1,000+$ hours). |
| After December 31, 2011, no additional individuals shall |  |
| become participants of the plan. |  |

## Career Average Formula

Normal Retirement
Eligibility

Benefit

Age 65.
Benefits accrued through December 31, 2004 plus a benefit for each year after 2004 but before 2012 equal to the sum of (a) and (b) below:
(a) $0.70 \%$ of pensionable earnings; and
(b) For participants with age plus service points greater than 55, as of January 1, 2005, an additional annual accrual beginning in 2005 of:

Points | Pensionable |
| ---: |
| Earnings |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Cash Balance Formula

Normal Retirement

Eligibility
Annual Benefit

Opening Cash Balance Account

Pay Credits

Interest Credits

Age 65.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001, earned under the provisions of the plan in effect at that time.

A participant's opening cash balance account is zero at date of hire for employees who become participants on or after January 1, 2002. For plan participants prior to January 1, 2002, the opening account was created by converting the December 31, 2001 accrued benefit into an equivalent present value (using 5.50\% interest, 1983 GATT mortality, and age 65 retirement).

The annual pay credit was added to the cash balance account after interest was credited for the year. A participant was eligible for a pay credit if they had earned one year of benefit service (had worked one hour during the year).

The annual pay credit was based on annual pensionable earnings, and was an amount equal to (a) plus (b) below:
(a) $4 \%$ of pensionable earnings less than or equal to $1 / 2$ of the Social Security wage base for the year; plus
(b) $6 \%$ of pensionable earnings greater than $1 / 2$ of the Social Security wage base for the year.

No additional pay credits will be granted after January 1, 2005.

Interest is credited to the account annually. The annual interest rate is the 30 -year Treasury rate for September of the year prior to the year in which interest is credited.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Early Retirement
Eligibility
Annual Benefit

Vested Deferred Retirement Eligibility

Annual Benefit

Age 55 and five years of service.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001, earned under the provisions of the plan in effect at that time, reduced $3.6 \%$ per year for each of the first five years by which benefit commencement precedes 65 and $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Three years of service.
The greater of (a) and (b) below:
(a) An amount equal to the actuarial equivalent of the participant's cash balance account payable in the form of a life annuity; or
(b) The participant's accrued benefit as of December 31, 2001 earned under the provisions of the plan in effect at that time, actuarially reduced from age 65.

Eligible for a vested benefit.
$100 \%$ of the cash balance account will be paid to the beneficiary if a participant dies before commencement of benefits.

## Traditional Formula

Normal Retirement
Eligibility
Benefit

Age 65.
Benefits accrued through December 31, 1997 (date of last past service increase) plus a benefit for each year after 1997 equal to the sum of (a), (b), and (c) below:
(a) $1.50 \%$ of pensionable earnings not in excess of covered compensation; and

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Early Retirement Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement ${ }^{1}$
Eligibility
Benefit
(b) $2.00 \%$ pensionable earnings in excess of covered compensation.
(c) For participants with age plus service points greater than 70, as of January 1, 1999, an additional annual accrual beginning in 1999 of:

| Percent |
| ---: |
| Pensionable |
| Earnings |

$0.15 \%$
$0.30 \%$
$0.45 \%$
$0.60 \%$

Note: The benefit cannot be less than $\$ 60$ per year for members who have 1,000 or more hours of service in a year. Also, members with 38 or more years of service will receive a benefit accrual of $2 \%$ of pensionable earnings instead of (a) and (b) above for each year of service in excess of 37 years.

The Pre-Retirement Surviving Spouse Option (PRSSO) reduction factor is applied to the December 31, 2001 accrued benefit.

Age 55 and five years of vesting service. Age 55 if hired before January 1, 1995.

The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Twenty-five continuous years of service.
The accrued normal or early retirement benefit plus an additional one-time accrual of $\$ 600$ if the participant's date of termination due to disability is after December 31, 1999.

[^6]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Preretirement Surviving Spouse Benefit
Eligibility
Benefit


Eligibility
Benefit

Definitions
Vesting Service

Credited Service

Pensionable Earnings

Normal Form of Benefit

Optional Payment Forms

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

All service since date of hire, measured in years and months.

All service while participating in the plan. Credited service is measured in completed years and months.

Compensation including overtime, commissions, bonuses, and elective deferrals.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), 100\%, 50\%, or $25 \%$ joint and survivor annuity, or Social Security level income.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

EIN: 36-1004130 PN: 022

| Optional Lump Sum | Participants with accrued benefits under the cash <br> balance formula may elect to receive a lump sum <br> distribution of their benefit upon vested termination. |
| :--- | :--- |
| Social Security Covered | The average of the Social Security wage base for the <br> Compensation Level |
| 35-year period for someone reaching age 65 in the <br> calendar year of determination. |  |
| Social Security Wage Base | This annual amount is the maximum earnings amount on <br> which employees and employers pay the OASDI portion <br> of FICA taxes. It is calculated annually by the Social <br> Security Administration. |

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Corporation Employees Pension Plan
Effective Date of Original Plan

Eligibility

Career Average
January 1, 1952. Restated effective August 1, 2003. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An employee becomes a participant on the nearest January 1 after attaining age 21 and one year of service (1,000+ hours).

Employees in a collective bargaining unit are not eligible.
After December 31, 2011, no additional individuals shall become participants of the plan.

Effective March 31, 2007 and frozen December 31, 2011, all existing employees began accruing benefits under the new career average formula. The pre-April 1, 2007 final average pay formula only reflects pay and service age as of March 31, 2007. Additionally, all newly hired employees accrued benefits under this new formula.

Post-March 31, 2007 Career Average Formula

Normal Retirement
Eligibility
Benefit

Age 65.
The highest percentage of pensionable earnings for each year after March 31, 2007 but before 2012, as follows:
(a) $1.20 \%$ if age plus service grandfather points at March 31, 2007 were greater than or equal to 65 points;
(b) $0.95 \%$ if age plus service grandfather points at March 31, 2007 were greater than or equal to 55 points; or
(c) $0.70 \%$ for all other participants.

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Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

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## Pre-April 1, 2007 Final Average Pay Formula

Normal Retirement

Eligibility
Benefit

Age 65
An annual amount equal to the sum of (a), (b) and (c), but never less than (d):
(a) $0.89 \%$ of participant's final average compensation times years of credited service (maximum 20); plus
(b) An amount of (i) or (ii) as follows:
(i) For participants hired prior to January 1, 1995: $1.07 \%$ of the final average compensation times years of credited service in excess of 20 (maximum of 15 years); or
(ii) For participants hired after December 31, 1994: $0.89 \%$ of the final average compensation times years of credited service in excess of 20 (maximum of 15 years); plus
(c) $0.50 \%$ of the final average compensation in excess of Social Security covered compensation times years of credited service (maximum of 35 years), but not less than;
(d) $\$ 29.00$ times years of credited service.

Early Retirement
Eligibility

Reduction for Early Payment

Pre-April 1, 2007: Age 57 and 10 years of vesting service.

Post-April 1, 2007: Age 55 and five years of vesting service.

The accrued benefit payable at normal retirement shall be reduced by:
(a) If the participant's age plus years of service is greater than or equal to $90,3 \%$ per year for each year by which benefit commencement precedes age 62 , but not on the excess compensation piece in part (c); otherwise
(b) $6 \%$ per year for each of year by which benefit commencement precedes age 62.

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Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Fifteen years of vesting service.
At the participant's normal retirement date, they will receive a benefit based upon their average monthly compensation at disability and credited service from their date of participation to their normal retirement date.

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but less than 15 years, the surviving spouse is entitled to an annuity commencing at the earliest date the participant would have been eligible to receive a retirement benefit under the plan. The annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to earliest eligibility, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant has 15 or more years of vesting service at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, unreduced for early retirement. If the spouse is more than five years younger, the benefit will be reduced in the form of a $50 \%$ joint and survivor annuity where the spouse is exactly five years younger.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with actuarial reductions to the early retirement age. For most deferred affiliates, the benefit is not payable until age 65. For other deferreds that are not deferred affiliates, the reductions are $8 \%$ from 65 to $62,6 \%$ from 62 to 57 , and $4 \%$ from 57 to 55 . With 10 years of vesting service, the accrued benefit at December 31, 1997, is payable at early retirement using the early retirement benefit reductions. Benefits are payable under the normal form.

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Definitions<br>Credited Service

Final Average Compensation

Compensation

Normal Form of Benefit

Optional Payment Forms

Optional Lump Sum

Social Security Covered
Compensation Level

Social Security Wage Base

All service since date of hire, measured in years and months.

All service while participating in the plan. Credited service is measured in completed years and months. Service prior to January 1, 1998 shall be credited on rules applicable at that time it was earned.

The average of a participant's five consecutive years' compensation which produce the highest average.

Total remuneration paid for services, excluding bonuses and other extraordinary payments, but including compensation deferred under Section 125 or 401 (k) plans. Compensation derived from commissions on product sales, taken into account as the minimum of $70 \%$ of total compensation or $\$ 100,000$.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), $100 \%$ or $75 \%$ joint and survivor annuity, 10-year certain single life annuity or Social Security level income option.

Participants with accrued benefits under $\$ 5,000$ receive a lump sum distribution of their benefit upon vested termination.

The average of the Social Security wage base for the 35 -year period for someone reaching age 65 in the calendar year of determination.

This annual amount is the maximum earnings amount on which employees and employers pay the OASDI portion of FICA taxes. It is calculated annually by the Social Security Administration.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Hourly Pension Plan—Book Group

Effective Date of Original Plan

Eligibility

Normal Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An hourly-paid employee of a participating unit will become a participant on the nearest January 1 after attaining age 21 and one year of service ( $1,000+$ hours).

After December 31, 2014, no additional individuals shall become participants of the plan.

Age 65 and five years of service.
For members of the Maintenance Unit, the monthly pension on a single-life basis is $\$ 33$ per month per year of service for terminations on or after February 4, 2008 (frozen at December 31, 2014).

For all other units, the monthly pension on a single-life basis is a frozen amount equal to the participant's accrued benefit at the following rates:

| Unit | Rate Date Frozen |  |
| :--- | ---: | ---: |
| Bookbinders | $\$ 9.00$ | December 31, 1983 |
| Letterpress | $\$ 5.50$ | December 31, 1977 |
| Lithographers $\$ 3.75$ (max of $\$ 125 /$ mo) | December 31, 1983 |  |

In addition to this frozen amount, the Bookbinders unit is guaranteed a minimum monthly benefit of $\$ 20$ per year of credited service payable at age 62. The Lithographers unit is guaranteed a minimum of $\$ 16$ per month, per year of credited service payable at age 65 (reduced 6\% per year if payable prior to age 65). Under both minimums, the participant must retire on or after age 62. The minimum is offset by all other company-sponsored pension benefits, including the frozen amount under this plan.

Age 60 and 10 years of vesting service.
Accrued benefit as of early retirement date multiplied by an early retirement factor on an actuarially equivalent

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Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Vested Termination Benefits
Eligibility
basis due to earlier commencement of payments from age 62.

Fifteen years of vesting service.
Commences on the first day of the month coincident with or next following the date of disability, provided all eligibility requirements are met. The benefit payable is equal to the accrued benefit as of the date of disability.

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 60 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 60 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 60, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 60 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

However, if the participant dies after 15 years of Vesting Service, in lieu of the above, the monthly pension payable can be equal to one-half of the monthly amount which the employee would have been entitled to receive if the participant had retired on the day preceding death as if the participant had been eligible for a normal pension on such date. Payments shall commence on the first of the month following the death (without early distribution reductions) of the participant and shall continue for 60 months or until the death of the surviving spouse, if earlier.

Five years of vesting service.

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Benefit
Accrued benefit payable at normal retirement age, or payable at early retirement age actuarially reduced. Benefits are payable under the normal form.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Definitions
Vesting Service

Credited Service

Accrued Benefit

Normal Form of Benefit

Optional Payment Forms
Vesting service shall be granted for the period after the date of their last period of continuous employment commenced to termination of employment.

Eligibility for benefits is determined by a participant's service. Service consists of an employee's last period of continuous employment. Credited service is used to determine the amount of benefits payable under the plan. Credited service shall be granted for the period after the date of their last period of continuous employment commenced to termination of employment.

The participant's accrued benefit at any given date is determined under the normal retirement formula described below, but is based on current credited service.

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

Single life annuity (for married participants), 100\% or $75 \%$ joint and survivor annuity, or Social Security level income option.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Hourly Pension Plan—Danbury


Normal Retirement
Eligibility

Benefit

Early Retirement
Eligibility

Benefit Reduction for Early Payment

Disability Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

Hourly employees of Danbury Printing \& Litho, Inc. in the collective bargaining unit represented by Graphic Communications International Union Local 298-M, AFL-CIO shall be eligible to participate on the nearest January 1 after attaining age 21 and one year of service.

Age 65 and five years of service.

Monthly benefit (greater of (a) or (b) below):
(a) Monthly annuity on a single-life basis is equal to $0.89 \%$ of average monthly compensation plus 0.50\% of the excess of average monthly compensation over covered compensation. The sum is to be multiplied by credited service to a maximum of 35 years.
(b) Monthly annuity equal to $\$ 17.00$ for each year of credited service.

Age 60 and 10 years of vesting service.

Accrued benefit payable at normal retirement shall be reduced by $6.0 \%$ per year for each year by which benefit commencement precedes age 62. There is no reduction for commencement at age 62 or later.

Fifteen years of vesting service.

Commencing on the participant's normal retirement date, if then living and still disabled, the normal retirement benefit, payable for life, shall be calculated assuming that service and the monthly rate of basis compensation as of the date of disability with service continued to the normal retirement date. Benefit commences earlier if not eligible for benefits under long-term disability plan.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Preretirement Surviving Spouse Benefit
Eligibility
Benefit
Benefi


Vested Termination Benefits
Eligibility
Benefit

Definitions
Vesting Service

Five years of vesting service.
If a participant has five or more years of vesting service at the time of their death, but is less than age 60 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 60 . This annuity is equal to one-half of the annuity the participant would have received if they had terminated employment on the day before their death, survived to age 60, and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 60 or older at the time of their death, their surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

However, if the participant dies after 15 years of vesting service, in lieu of the above, the monthly pension payable can be equal to one-half of the monthly amount which the employee would have been entitled to receive if the participant had retired on the day preceding death as if the participant had been eligible for a normal pension on such date. Payments shall commence on the first of the month following the death (without early distribution reductions) of the participant and shall continue for 120 months or until the death of the surviving spouse, if earlier.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

Total service from date of hire to date of termination.
Vesting service shall not include employment with Danbury Printing \& Litho, Inc. prior to March 8, 1994.

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$\left.\begin{array}{ll}\text { Credited Service } & \begin{array}{l}\text { Service after date of employment to termination of } \\ \text { employment. }\end{array} \\ \text { Credited service will be limited to service on or after } \\ \text { January 1, } 1999 \text { for Danbury Printing \& Litho, Inc. }\end{array}\right\}$

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Banta Hourly Pension Plan—Specialty Converting (KCS)

Effective Date of Original Plan

Eligibility

Normal Retirement
Eligibility

Benefit

January 1, 1959. Restated effective January 1, 1999. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

A person who is employed on an hourly-related basis, who is not an administrative employee, and who is not covered by a collective bargaining agreement between the employer and the International Printing Pressman and Assistants Union will become a participant on the first day of the plan year next following their date of hire.

After December 31, 2013, no additional individuals shall become participants of the plan.

Age 65 and five years of service.
The monthly amount of normal pension payable is the sum of:
(a) $\$ 8.00$ for each year of service through December 31, 1991;
(b) \$15.00 for each year of service from 1992-2005;
(c) $\$ 16.00$ for each year of service from 2006-2007;
(d) \$18.00 for each year of service from 2008-2009; and
(e) $\$ 20.00$ for each year of service from 2010-2013.

Early Retirement Eligibility

Benefit Reduction for Early Payment

Age 55 and five years of vesting service.
Accrued benefit payable at normal retirement shall be reduced by $5.0 \%$ per year for each year by which benefit commencement precedes age 65.

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Disability Retirement
Eligibility
Benefit
Before Normal Retirement

After Normal Retirement

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 50 and 10 years of vesting service.

Benefit calculated in the same manner as early retirement benefit including early retirement reductions.

Commencing on the participant's normal retirement date, if then living and still disabled, the normal retirement benefit, payable for life, shall be calculated assuming service, as of the date of disability.

Unless an election is made to the contrary, a preretirement spouse's death benefit is provided in the event of the death of any active participant with five years of vesting service or a terminated participant who is eligible for a vested retirement benefit.

The beneficiary of a participant who dies while in active service is entitled to a lump-sum benefit equal to $\$ 100$ times the number of years of service after January 1, 1999 and prior to January 1, 2014, reduced by the amount of any disability benefits received. The lump sum benefit is not to exceed $\$ 2,000$.

If a participant does not waive the preretirement survivor coverage, any retirement benefits payable to or on behalf of the participant will be reduced by a coverage charge. The coverage charge is based upon the age of the participant during each year of coverage as follows:

| Attained Age | Percent Reduction |
| :--- | ---: |
| Under 35 | $0.00 \%$ |
| $35-40$ | $0.05 \%$ |
| $40-45$ | $0.10 \%$ |
| $45-50$ | $0.20 \%$ |
| $50-45$ | $0.35 \%$ |
| $55-65$ | $0.50 \%$ |

If coverage is not waived, the monthly pension payable shall equal $50 \%$ of the amount the participant would have received (based on the accrued benefit at death) had the participant elected the joint and survivor annuity and commenced payments at the earliest possible date.

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Vested Termination Benefits Eligibility

Benefit

Definitions
Vesting Service

Credited Service

Accrued Benefit

Normal Form of Benefit
Normal Retirement

Early, Disabled, or Deferred Retirement

Optional Payment Forms

A participant is $100 \%$ vested upon completion of five years of vesting service.

The termination benefit is equal to the vested accrued benefit, payable in the normal form, commencing at normal retirement date. Optionally, the participant may elect to receive a reduced benefit commencing prior to normal retirement date.

Plan years during which a participant completes not less than 1,000 hours of service.

Credited service, used to determine the amount of benefits, is based on the number of eight hour shifts worked during the plan year. A participant receives a full year of credited service for 250 shifts, or one-tenth of a year for each 25 shifts.

Eight hours of service constitutes a shift worked. Credited service does not include periods of employment (a) prior to January 1, 1960, (b) prior to a participant's most recent date of hire before January 1, 1975, or (c) as a salaried or administrative employee.

The participant's accrued benefit at any given date is determined under the normal retirement formula described below, but is based on current credited service.

Five-year certain and life. If married, $50 \%$ joint and survivor annuity.

Single life annuity. If married, $50 \%$ joint and survivor annuity.

Single life annuity, 10 -year certain and life, and $75 \%$ joint and survivor annuity.

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Legacy Haddon Craftsmen, Inc. Retirement Plan


Normal Retirement Eligibility

Benefit
January 1, 1980. Restated effective January 1, 2000. Effective December 31, 2010, the plan was merged into the Retirement Benefit Plan of R.R. Donnelley \& Sons Company.

An employee becomes a participant on the first day of the month coinciding with or next following date of employment, unless they are members of a union represented by a collective bargaining agreement which has not assented to coverage by the plan. Effective December 31, 1997 only G.C.I.U. employees in Bloomsburg are eligible to become new participants in the plan.

Age 65 and five years of service.
Equal to the sum of the Noncontributory retirement income described below, and the optional contributory retirement income, if any, described below.

A participant's monthly noncontributory retirement income is equal to the product of benefit service and the appropriate factor from the following table.

| Group | Factor | Effective Date |
| :--- | ---: | ---: |
| G.C.I.U. | $\$ 24.00$ | $01 / 01 / 2009-12 / 31 / 2009$ |
| Local 732-C | $\$ 25.00$ | Current |
|  |  | (Bloomsburg) |
|  |  | Frozen 12/31/1997 |

(Allentown)
Office \& Management
Frozen 12/31/1997
(All Locations)
A participant's monthly optional contributory retirement income is equal to the benefit accrued under this provision as of December 31, 1988, plus $1 / 12$ th of one and $1 / 2 \%(0.015)$ of the participant's compensation earned in each year, after 1988, during which the required participant contributions are made.

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Early Retiremen
Eligibility
Benefit Reduction for Early Payment
Disability Retirement
Eligibility
Benefit
Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and 20 years of vesting service.
Actuarial equivalence.

N/A.
N/A.

Three year of vesting service.
Equal to $50 \%$ of the benefit which the deceased participant would have received if they had begun to receive their vested benefits (in the form of a joint and $50 \%$ survivor annuity) on the day benefits commence to the surviving spouse. If the deceased participant was eligible for early retirement, those benefits commence immediately; if the participant was not eligible for early retirement, benefits commence when the participant would have become eligible to receive benefits.

If the death of a participant is before they are eligible for any other benefits under the plan, the participant's estate is entitled to the return of their contributions to the plan, with interest.

Three years of vesting service.
The deferred benefit, to commence at the participant's normal retirement date, is equal to the sum of (i) the deferred benefit, if any, purchased by their own contributions to the plan, and (ii) the remainder of an amount determined in the same manner as in normal retirement benefit for the deferred early retirement benefit, multiplied by a vesting percentage from the following table:

| Years of <br> Vesting Service | Rate |
| :--- | ---: |
| Less Than 3 | $0 \%$ |
| 3 | $20 \%$ |
| 4 | $40 \%$ |
| 5 | $60 \%$ |
| 6 | $80 \%$ |
| 7 or More | $100 \%$ |

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Postretirement Death Benefits

## Contributions

Participant Contributions

## Definitions

Benefit Service

Vesting Service

Compensation

Normal Form of Benefit

If the employment of a participant is terminated before they are eligible for any other benefits under the plan, the participant is entitled to the return of their contributions to the plan, with interest.

In the event of the death of a participant after retirement, the beneficiary will receive any remaining guaranteed annuity payments, or survivor benefits, depending upon the option selected by the participant. If an option other than a joint and survivor option has been elected, the participant's beneficiary will receive the excess, if any, of the participant's personal contributions (including interest) over the amount of monthly benefits actually paid.

For certain employees insured before January 1, 1962, there is a death benefit of $\$ 5,000$. For certain employees insured after January 1, 1962, there is a death benefit of $\$ 1,000$. These employees are identified in historical valuation data.

Participants who wish to receive benefits from the optional contributory retirement income portion of the plan contribute $3 \%$ of each year's earnings in excess of \$3,600.

Participants accrue units of benefit service for each calendar year during which they have hours of service. A full unit of benefit service is accrued for each year in which a participant has at least 1,785 hours of service; if a participant has less than 1,785 hours of service in a year, a pro-rata fraction of a unit of benefit service is accrued.

A participant accrues one year of vesting service for each calendar year during which they have at least 1,000 hours of service with the company.

Compensation means a participant's total earnings for a year, as reported on Form W-2, subject to limitations under IRS section 401(a)(17).

Life annuity for unmarried participants or an actuarially equivalent $50 \%$ joint and survivor annuity if the participant is married.

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Optional Payment Forms

Actuarial Equivalence

Credited Interest

Single life annuity (for married participants), 50,75 , and $100 \%$ joint and survivor annuity, or lump sum.
$6.5 \%$ and 1971 Group Annuity (male) Mortality Table with ages set back two years.
$120 \%$ of the Federal mid-term rate.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Legacy Retirement Income Plan of Moore Wallace North America, Inc.

| Effective Date of Original Plan | December 30, 1947. Restated effective January 1, 2010 Effective December 31, 2012, the plan was merged into the Retirement Benefit Plan of R. R. Donnelley \& Sons Company. |
| :---: | :---: |
| Eligibility | An employee becomes a participant on attaining age 21 and one year of service. Plan participation is closed to new hires after December 31, 2011. |
| Benefit Accruals | Benefit accruals were frozen for all participants as of December 31, 2011. |
| Participant Contributions | None after January 1, 1972. |
| Retirement Income | Generally applies to service earned prior to July 1, 1997. Employees who met the following criteria as of June 30, 1997 had the option to keep coverage under the retirement income plan formula for service earned through December 31, 2000: <br> - Age 65; or <br> - Age 50 with 10 years of service; or <br> - Age 45 with 20 years of service. |
| Pension Equity | Generally applies to service earned between July 1, 1997 and December 31, 2000. All accruals under this formula were frozen as of December 31, 2000. |
| Career Average | Effective January 1, 2005, all existing employees began accruing benefits under the new career average formula Additionally, all newly hired employees will accrue benefits under this new formula. |

## Career Average Formula

Normal Retirement
Eligibility

Benefit

Age 65.
$0.70 \%$ of pensionable earnings for each year after 2004.

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Early Retirement<br>Eligibility<br>Benefit Reduction for Early Payment

Disability Retirement
Eligibility
Benefit

Preretirement Surviving Spouse Benefit Eligibility

Benefit

Age 55 and five years of vesting service.
The accrued benefit payable at normal retirement shall be reduced by:
(a) $3.6 \%$ per year for each of the first five years by which benefit commencement precedes age 65 ; and
(b) $4.8 \%$ per year for each of the next five years by which benefit commencement precedes age 60 .

Five years of vesting service.
Benefits continue to accrue during period of disability (frozen at December 31, 2011).

Five years of vesting service.
If a participant has five or more years of vesting service at the time of his death, but is less than age 55 or is not an active employee, the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to one-half of the annuity the participant would have received if he had terminated employment on the day before his death, survived to age 55 , and elected an early retirement pension payable in the form of a $50 \%$ joint and survivor annuity.

If an active participant is age 55 or older at the time of his death, his surviving spouse is entitled to an immediate life annuity equal to one-half of the participant's accrued benefit, reduced for early retirement in the form of a $50 \%$ joint and survivor annuity.

Five years of vesting service.
Accrued benefit payable at normal retirement age, or payable at early retirement age with reductions as for early retirement. Benefits are payable under the normal form.

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## Retirement Income Formula

Normal Retirement

Eligibility
Benefit

Age 65.
The sum of (a), (b), (c) and (d) below:
(a) Before January 1, 1985

The greater of (i), (ii), and (iii) below:
(i) 1.1\% of final average pay, up to the 1985 average Social Security wage base plus $1.6 \%$ of final average pay in excess of the 1985 average Social Security wage base, multiplied by years of credited service as of December 31, 1984, not to exceed 35 years.
(ii) $\$ 48.00$ multiplied by the participant's credited service, not to exceed 35 years.
(iii) For a participant who was also a participant in the prior contributory plan, the amount that would have been provided if the prior plan and the participant's rate of compensation had continued unchanged.
(b) Between January 1, 1985 and December 31, 1988
$1.1 \%$ of each year's annual earnings up to that year's Social Security wage base plus $1.8 \%$ of each year's annual earnings in excess of that year's Social Security wage base plus a $10 \%$ increase to the accrued benefit as of December 31, 1988, if employed by Moore Wallace on that date and thereafter.
(c) After January 1, 1989
$1.8 \%$ of each year's annual earnings up to that year's Social Security wage base plus $2.0 \%$ of each year's annual earnings in excess of that year's Social Security wage base.
(d) Special Formula Enhancement
$18 \%$ of annual earnings for calendar year 2000 (limited to $\$ 170,000$ ). This benefit is payable as a lump sum, but has been converted to an equivalent deferred five-year certain and continuous annuity payable at 65 . This benefit was provided to all grandfathered participants employed as of December 1, 2000.

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Early Retirement
Eligibility
Benefit Reduction for Early Paymen

Disability Retirement ${ }^{2}$
Eligibility
Benefit

Age 55 and 10 years of service.
The accrued benefit payable at normal retirement shall be reduced by $4 \%$ for each year that you receive benefits before the earliest of:
(a) Age 65; or
(b) Age 62 and 30 years of service.

Totally and permanently disabled before June 4, 2001.
The accrued normal or early retirement benefit payable immediately. If the employee was a participant in the company's LTD plan, they will continue to accrue benefits under the retirement plan based on compensation prior to disablement. These benefits are payable at age 65 or upon termination of LTD benefits if later.

If the disabled participant qualifies for Social Security disability benefits (or would qualify if the participant was covered under the Federal Social Security Act), the early retirement reduction will not apply.

Five years of service.
Accrued benefit payable at the normal retirement age, or payable at early retirement age with $6 \%$ per year reductions as for early retirement. Benefits are payable under the normal form.

Five years of vesting service.

[^7]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

Preretirement Death Benefit
Benefit ${ }^{3}$
Married

Single
If the participant is age less than 55 , the surviving spouse is entitled to an annuity commencing when the participant would have reached age 55 . This annuity is equal to two-thirds of the annuity the participant would have received if he had terminated employment on the day before his death, survived to age 55, and elected an early retirement pension payable in the form of a joint and two-thirds survivor annuity.

If an active participant is age 55 or older at the time of death, his surviving spouse is entitled to an immediate life annuity equal to two-thirds of the participant's accrued benefit, reduced for early retirement in the form of a joint and two-thirds survivor annuity.

Lump sum death benefit equal to the present value of five years of payments a spouse would have received if the participant had been married.

## Pension Equity Formula

Normal Retirement
Eligibility
Benefit
Age 65.
Benefits accrued from July 1, 1997 through December 31, 2000 are based on the number of credits earned (four per year of credited service) and the participants final average compensation. Accrued benefits will equal the product of (a), (b), and (c) below:
(a) $4 \%$;
(b) Years of credited service between July 1, 1997 and December 31, 2000;
(c) Final average compensation, (frozen as of December 31, 2000).

Effective October 15, 2003, the plan was amended to define the accrued benefit as the actuarial equivalent five-year certain and continuous annuity calculated as of December 31, 2000. The lump sum will be recalculated based on the participant's age and interest rate at the time of calculation.

[^8]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

| Early Retirement |  |
| :---: | :---: |
| Eligibility | Age 55 and 10 years of vesting service. |
| Benefit Reduction for Early Payment | The accrued benefit payable at normal retirement shall be reduced by $6 \%$ per year for each year by which benefit commencement precedes age 65. |
| Disability Retirement ${ }^{4}$ |  |
| Eligibility | Totally and permanently disabled before June 4, 2001. |
| Benefit | The accrued normal or early retirement benefit payable immediately. If the employee was a participant in the company's LTD plan, they will continue to accrue benefits under the retirement plan based on compensation prior to disablement. These benefits are payable at age 65 or upon termination of LTD benefits if later. |
|  | If the disabled participant qualifies for Social Security disability benefits (or would qualify if the participant was covered under the Federal Social Security Act), early retirement reduction will not apply. |
| Preretirement Death Benefit |  |
| Eligibility | Eligible for a vested benefit. |
| Benefit | The lump sum that the participant would have received if the participant had terminated employment on their date of death. |
| Vested Termination Benefits |  |
| Eligibility | Five years of vesting service. |
| Benefit | Accrued benefit can be payable immediately as a lump sum or a monthly annuity. Monthly annuities commencing prior to age 55 are the actuarial equivalent of the reduced age 55 monthly annuity. |
| Definitions |  |
| Vesting Service | All service since date of hire, measured in years and months. |
| Credited Service | All service while participating in the plan. Credited service is measured in completed years and months. |
| Annual Earnings | Compensation including overtime, commissions, bonuses, and elective deferrals. |

[^9]
# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

| Final Average Pay | The average of the highest five consecutive years of pay <br> out of the last 10 years of employment before January 1, <br> 1985. |
| :--- | :--- |
| Social Security Covered | The average of the Social Security wage base for the <br> 35-year period for someone reaching age 65 in the <br> calendar year of determination. |
| Compensation Level | This annual amount is the maximum earnings amount on <br> which employees and employers pay the OASDI portion <br> of FICA taxes. It is calculated annually by the Social <br> Security Administration. |

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## Legacy Check Printers

Effective Date of Amended Plan

Eligibility

Participant Contributions

## Check Printers Formula

Normal Retirement
Eligibility
Benefit

Early Retirement
Eligibility
Benefit Reduction for Early Payment

Vested Deferred Retirement
Eligibility
Benefit

Effective December 31, 2004, the plan's accrued benefits were frozen.

Each eligible employee will become a participant on the first day of the month coincident with or next following the first eligibility computation period during which he completes 1,000 hours.

None.

Age 65 and five years of service.
The sum of (a) plus (b) minus (c):
(a) $\$ 4.00$ multiplied by the years of credited service;
(b) If the participant is a salaried employee, $1 / 12$ th of $1.5 \%$ of compensation each year;
(c) The monthly benefit purchased in the form of an annuity which guaranteed benefits accrued through December 31, 1986.

Effective December 31, 2004, the plans accrued benefits were frozen.

Age 55 and 15 years of service.
The accrued benefit payable at normal retirement shall be reduced by $6.0 \%$ for each year for the first five years and $4.8 \%$ for each of the next five years.

Five years of service.
Accrued benefit payable at age 65.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

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Preretirement Death Benefit
Eligibility

Benefit

Definitions
Vesting Service

Credited Service

Compensation

Five years of vesting service and married at least one year.
$50 \%$ of the amount the participant would have received if he had survived to the earliest retirement date and elected the $50 \%$ joint and survivor optional form of payment.

Vesting service is the period of an employee's service calculated as elapsed time in years and days.

Credited service is the period of an employee's service calculated in completed months.

Compensation means the W-2 earnings plus any compensation deferred under a Section 125 or Section 401(k) plan. Compensation does not include amounts paid as reimbursements, fringe benefits, moving expenses, welfare benefits, and all other extraordinary compensation.

# Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan <br> EIN: 36-1004130 PN: 022 

## Legacy Cardinal Brands

Effective Date of Amended Plan

Eligibility

Participant Contributions

Cardinal Brands Formula
Normal Retirement
Eligibility

Benefit

Early Retirement
Eligibility
Benefit Reduction for Early Payment

Disability Retirement Eligibility
Eligibility

Benefit

Vested Deferred Retirement
Eligibility
Benefit

Effective January 31, 2008, the plan's accrued benefits were frozen. Effective March 31, 2008, the plan was merged into the Retirement Income Plan of Moore North America.

Each eligible employee will become a participant on the applicable entry date upon reaching age 21 and completing one year of service.

Discontinued April 1, 1989.

Age 65.
The sum of (a) plus (b):
(a) Accrued benefit as of March 31, 1989;
(b) 1.3\% of compensation each year after March 31, 1989 for which the participant is credited with a year of service.

Effective January 31, 2008, the plans accrued benefits were frozen.

Age 55.
The accrued benefit payable at normal retirement shall be reduced by the factors in Table 1.

Age 50 and 15 years of service. Must be disabled for at least five consecutive months.

Normal retirement benefit accrued as of his disability retirement date, reduced by any Workmen's Compensation benefits payable prior to normal retirement date.

Five years of service.
Accrued benefit payable at age 65.

## Schedule SB Attachment (Form 5500)—December 1, 2018 Plan Year RR Donnelley Pension Plan

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| Preretirement Death Benefit <br> Eligibility | Five years of service and married at least one year. |
| :--- | :--- |
| Benefit | $100 \%$ of the amount the participant would have received <br> if he had survived to the earliest retirement date and <br> elected the 100\% joint and survivor optional form of <br> payment. |
| Definitions | A year of service is a 12-consecutive month period <br> during which an employee is credited with at least 1,000 <br> hours of service. |
| Compensation | Compensation means the W-2 earnings plus any <br> compensation deferred under a Section 125 or <br> Section 401 (k) plan. |

## Plan Changes Since the Prior Year

The funding valuation does not reflect any plan changes.

## Other Information to Fully and Fairly Disclose the Actuarial Position of the Plan

Due to software limitations with the electronic filing process, information filed electronically cannot be controlled by the Enrolled Actuary. The values on the signed Schedule SB will govern to the extent there are any differences in the entries filed electronically and the actual data contained on the signed Schedule SB.


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[^1]:    * A party in interest as defined by ERISA.

[^2]:    ${ }^{1}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

[^3]:    ${ }^{2}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

[^4]:    ${ }^{3}$ The preretirement death benefit for the Special Enhancement has the same provisions as the Pension Equity death benefit.

[^5]:    ${ }^{4}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

[^6]:    ${ }^{1}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

[^7]:    ${ }^{2}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

[^8]:    ${ }^{3}$ The preretirement death benefit for the Special Enhancement has the same provisions as the Pension Equity death benefit.

[^9]:    ${ }^{4}$ Historical disability provisions prior to January 1, 2005. See Career Average Formula for current disability provisions.

