

Form 5500 Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Annual Return/Report of Employee Benefit Plan This form is required to be filed for employee benefit plans under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ► Complete all entries in accordance with the instructions to the Form 5500.	OMB Nos. 1210-0110 1210-0089 2016 This Form is Open to Public Inspection
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Part I	Annual Report Identification Information For calendar plan year 2016 or fiscal plan year beginning <u>01/01/2016</u> and ending <u>12/31/2016</u>
A	This return/report is for: <div style="display: inline-block; width: 45%;"> ☐ a multiemployer plan </div> <div style="display: inline-block; width: 45%;"> ☐ a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) </div>
	☒ a single-employer plan <div style="display: inline-block; width: 45%;"> ☐ a DFE (specify) ____ </div>
B	This return/report is: <div style="display: inline-block; width: 45%;"> ☐ the first return/report </div> <div style="display: inline-block; width: 45%;"> ☐ the final return/report </div>
	☐ an amended return/report <div style="display: inline-block; width: 45%;"> ☐ a short plan year return/report (less than 12 months) </div>
C	If the plan is a collectively-bargained plan, check here. ☐
D	Check box if filing under: <div style="display: inline-block; width: 33%;"> ☒ Form 5558 </div> <div style="display: inline-block; width: 33%;"> ☐ automatic extension </div> <div style="display: inline-block; width: 33%;"> ☐ the DFVC program </div>
	☐ special extension (enter description)

Part II	Basic Plan Information —enter all requested information		
1a	Name of plan <u>RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY</u>	1b	Three-digit plan number (PN) ► <u>050</u>
		1c	Effective date of plan <u>04/01/1988</u>
2a	Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) <u>INGERSOLL-RAND COMPANY</u> <u>800 E BEATY STREET</u> <u>DAVIDSON, NC 28036</u>		2b Employer Identification Number (EIN) <u>13-5156640</u> 2c Plan Sponsor's telephone number <u>704-655-4000</u> 2d Business code (see instructions) <u>333200</u>

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

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

SIGN HERE	Filed with authorized/valid electronic signature.	<u>10/13/2017</u>	<u>PAUL LONGSTREET</u>
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE	Filed with authorized/valid electronic signature.	<u>10/13/2017</u>	<u>CHRISTOPHER J. KUEHN</u>
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE
Preparer's name (including firm name, if applicable) and address (include room or suite number)			Preparer's telephone number

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

Form 5500 (2016)
v. 160205

3a Plan administrator's name and address ☐ Same as Plan Sponsor BENEFITS ADMINISTRATIVE COMMITTEE OF INGERSOLL-RAND COMPANY 800 E BEATY STREET DAVIDSON, NC 28036	3b Administrator's EIN 22-2116054 3c Administrator's telephone number 704-655-4000
4 If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN and the plan number from the last return/report: a Sponsor's name	4b EIN 4c PN
5 Total number of participants at the beginning of the plan year	5 2859
6 Number of participants as of the end of the plan year unless otherwise stated (welfare plans complete only lines 6a(1) , 6a(2) , 6b , 6c , and 6d). a(1) Total number of active participants at the beginning of the plan year..... a(2) Total number of active participants at the end of the plan year b Retired or separated participants receiving benefits..... c Other retired or separated participants entitled to future benefits d Subtotal. Add lines 6a(2) , 6b , and 6c e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits. f Total. Add lines 6d and 6e g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item) h Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested	6a(1) 0 6a(2) 0 6b 1833 6c 564 6d 2397 6e 407 6f 2804 6g 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 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) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor	9b Plan benefit arrangement (check all that apply) (1) ☐ Insurance (2) ☐ Code section 412(e)(3) insurance contracts (3) ☒ Trust (4) ☐ General assets of the sponsor
10 Check all applicable boxes in 10a and 10b to indicate which schedules are attached, and, where indicated, enter the number attached. (See instructions)	
a Pension Schedules (1) ☒ R (Retirement Plan Information) (2) ☐ MB (Multiemployer Defined Benefit Plan and Certain Money Purchase Plan Actuarial Information) - signed by the plan actuary (3) ☒ SB (Single-Employer Defined Benefit Plan Actuarial Information) - signed by the plan actuary	b General Schedules (1) ☒ H (Financial Information) (2) ☐ I (Financial Information – Small Plan) (3) ☐ A (Insurance Information) (4) ☐ C (Service Provider Information) (5) ☒ D (DFE/Participating Plan Information) (6) ☐ G (Financial Transaction Schedules)

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

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

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

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

11c Enter the Receipt Confirmation Code for the 2016 Form M-1 annual report. If the plan was not required to file the 2016 Form M-1 annual report, enter the Receipt Confirmation Code for the most recent Form M-1 that was required to be filed under the Form M-1 filing requirements. (Failure to enter a valid Receipt Confirmation Code will subject the Form 5500 filing to rejection as incomplete.)

Receipt Confirmation Code _____

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2016 This Form is Open to Public Inspection
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For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY</u>	B Three-digit plan number (PN) ▶ <u>050</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>INGERSOLL-RAND COMPANY</u>	D Employer Identification Number (EIN) <u>13-5156640</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500

Part I	Basic Information
1 Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2016</u>	
2 Assets:	
a Market value	2a <u>103844935</u>
b Actuarial value	2b <u>106473114</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment	(1) Number of participants <u>2208</u> (2) Vested Funding Target <u>84491655</u> (3) Total Funding Target <u>84491655</u>
b For terminated vested participants	<u>660</u> <u>25644352</u> <u>25644352</u>
c For active participants	<u>0</u> <u>0</u> <u>0</u>
d Total	<u>2868</u> <u>110136007</u> <u>110136007</u>
4 If the plan is in at-risk status, check the box and complete lines (a) and (b)..... ☐	
a Funding target disregarding prescribed at-risk assumptions	4a
b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b
5 Effective interest rate	5 <u>5.89 %</u>
6 Target normal cost	6 <u>935000</u>

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>09/22/2017</u>
	Signature of actuary	Date
<u>BRENDA G. STOVALL</u>	Type or print name of actuary	<u>17-05721</u>
		Most recent enrollment number
<u>TOWERS WATSON DELAWARE INC.</u>	Firm name	<u>901-930-0000</u>
<u>3340 PLAYERS CLUB PARKWAY SUITE 200 MEMPHIS, TN 38125</u>	Address of the firm	Telephone number (including area code)

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 ☐

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

**Schedule SB (Form 5500) 2016
v. 160205**

Part II Beginning of Year Carryover and Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
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	0
10	Interest on line 9 using prior year's actual return of _____ %	0	0
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		0
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 <u>6.10</u> %		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	0

Part III Funding Percentages			
14	Funding target attainment percentage	14	96.67%
15	Adjusted funding target attainment percentage	15	96.67%
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	101.32%
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 (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
09/13/2017	1800000	0			
Totals ▶			18(b)	1800000	18(c) 0

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 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 1633124
20 Quarterly contributions and liquidity shortfalls:	
a Did the plan have a "funding shortfall" for the prior year?	☐ Yes ☒ No
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☐ Yes ☐ 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) 1st	(2) 2nd
(3) 3rd	(4) 4th

Part V	Assumptions Used to Determine Funding Target and Target Normal Cost		
21	Discount rate:		
a	Segment rates:	<div style="display: flex; justify-content: space-around;"> <div>1st segment: 4.43%</div> <div>2nd segment: 5.91%</div> <div>3rd segment: 6.65%</div> </div>	☐ N/A, full yield curve used
b	Applicable month (enter code)	21b	4
22	Weighted average retirement age		22
23	Mortality table(s) (see instructions) ☐ Prescribed - combined ☒ Prescribed - separate ☐ Substitute		
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. ☐ Yes ☒ No		
25	Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No		
26	Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No		
27	If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.	27	
Part VII	Reconciliation of Unpaid Minimum Required Contributions For Prior Years		
28	Unpaid minimum required contributions for all prior years	28	0
29	Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	29	0
30	Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0
Part VIII	Minimum Required Contribution For Current Year		
31	Target normal cost and excess assets (see instructions):		
a	Target normal cost (line 6)	31a	935000
b	Excess assets, if applicable, but not greater than line 31a	31b	0
32	Amortization installments:	Outstanding Balance	Installment
a	Net shortfall amortization installment	3662893	605196
b	Waiver amortization installment	0	0
33	If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33	
34	Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)	34	1540196
		Carryover balance	Prefunding balance
35	Balances elected for use to offset funding requirement		0
36	Additional cash requirement (line 34 minus line 35)	36	1540196
37	Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	1633124
38	Present value of excess contributions for current year (see instructions)		
a	Total (excess, if any, of line 37 over line 36)	38a	92928
b	Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0
39	Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0
40	Unpaid minimum required contributions for all years	40	0
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	☐ 2 plus 7 years ☐ 15 years	
b	Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011	
42	Amount of acceleration adjustment	42	
43	Excess installment acceleration amount to be carried over to future plan years	43	

SCHEDULE D (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small>	DFE/Participating Plan Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA). ► File as an attachment to Form 5500.	OMB No. 1210-0110 <div style="text-align: center; font-size: 1.2em; font-weight: bold;">2016</div> This Form is Open to Public Inspection.
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For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016

A Name of plan <u>RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY</u>	B Three-digit plan number (PN) ► <u>050</u>
C Plan or DFE sponsor's name as shown on line 2a of Form 5500 <u>INGERSOLL-RAND COMPANY</u>	D Employer Identification Number (EIN) <u>13-5156640</u>

Part I	Information on interests in MTIAs, CCTs, PSAs, and 103-12 IEs (to be completed by plans and DFEs) (Complete as many entries as needed to report all interests in DFEs)
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a Name of MTIA, CCT, PSA, or 103-12 IE: IR COLLECTIVE TRUST FUND

b Name of sponsor of entity listed in (a): JP MORGAN CHASE BANK

c EIN-PN <u>13-3673037-001</u>	d Entity code <u>M</u>	e Dollar value of interest in MTIA, CCT, PSA, or 103-12 IE at end of year (see instructions) <u>101275023</u>
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a Name of MTIA, CCT, PSA, or 103-12 IE:

b Name of sponsor of entity listed in (a):

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

b Name of sponsor of entity listed in (a):

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

b Name of sponsor of entity listed in (a):

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

b Name of sponsor of entity listed in (a):

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

b Name of sponsor of entity listed in (a):

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

b Name of sponsor of entity listed in (a):

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

Part II Information on Participating Plans (to be completed by DFEs)

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

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

SCHEDULE H (Form 5500) <small>Internal Revenue Service</small> <hr/> <small>Department of Labor</small> <small>Employee Benefits Security Administration</small> <hr/> <small>Pension Benefit Guaranty Corporation</small>	Financial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA), and section 6058(a) of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500.	<small>OMB No. 1210-0110</small> 2016 This Form is Open to Public Inspection
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For calendar plan year 2016 or fiscal plan year beginning <u>01/01/2016</u> and ending <u>12/31/2016</u>		
A Name of plan <u>RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY</u>	B Three-digit plan number (PN) ►	<u>050</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>INGERSOLL-RAND COMPANY</u>	D Employer Identification Number (EIN) <u>13-5156640</u>	

Part I Asset and Liability Statement			
1 Current value of plan assets and liabilities at the beginning and end of the plan year. Combine the value of plan assets held in more than one trust. Report the value of the plan's interest in a commingled fund containing the assets of more than one plan on a line-by-line basis unless the value is reportable on lines 1c(9) through 1c(14). Do not enter the value of that portion of an insurance contract which guarantees, during this plan year, to pay a specific dollar benefit at a future date. Round off amounts to the nearest dollar. MTIAs, CCTs, PSAs, and 103-12 IEs do not complete lines 1b(1), 1b(2), 1c(8), 1g, 1h, and 1i. CCTs, PSAs, and 103-12 IEs also do not complete lines 1d and 1e. See instructions.			
Assets		(a) Beginning of Year	(b) End of Year
a Total noninterest-bearing cash	1a		
b Receivables (less allowance for doubtful accounts):			
(1) Employer contributions.....	1b(1)		1800000
(2) Participant contributions	1b(2)		
(3) Other.....	1b(3)		
c General investments:			
(1) Interest-bearing cash (include money market accounts & certificates of deposit).....	1c(1)		
(2) U.S. Government securities	1c(2)		
(3) Corporate debt instruments (other than employer securities):			
(A) Preferred	1c(3)(A)		
(B) All other.....	1c(3)(B)		
(4) Corporate stocks (other than employer securities):			
(A) Preferred	1c(4)(A)		
(B) Common.....	1c(4)(B)		
(5) Partnership/joint venture interests	1c(5)		
(6) Real estate (other than employer real property).....	1c(6)		
(7) Loans (other than to participants)	1c(7)		
(8) Participant loans.....	1c(8)		
(9) Value of interest in common/collective trusts	1c(9)		
(10) Value of interest in pooled separate accounts	1c(10)		
(11) Value of interest in master trust investment accounts	1c(11)	103844936	101275023
(12) Value of interest in 103-12 investment entities.....	1c(12)		
(13) Value of interest in registered investment companies (e.g., mutual funds).....	1c(13)		
(14) Value of funds held in insurance company general account (unallocated contracts).....	1c(14)		
(15) Other	1c(15)		

		(a) Beginning of Year	(b) End of Year
1d	Employer-related investments:		
(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)	1f	103844936 103075023
Liabilities			
g	Benefit claims payable	1g	
h	Operating payables	1h	
i	Acquisition indebtedness	1i	
j	Other liabilities	1j	59317 11612
k	Total liabilities (add all amounts in lines 1g through 1j)	1k	59317 11612
Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	103785619 103063411

Part II Income and Expense Statement

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

		(a) Amount	(b) Total
a	Contributions:		
(1)	Received or receivable in cash from: (A) Employers	2a(1)(A)	1800000
	(B) Participants	2a(1)(B)	
	(C) Others (including rollovers)	2a(1)(C)	
(2)	Noncash contributions	2a(2)	
(3)	Total contributions. Add lines 2a(1)(A) , (B) , (C) , and line 2a(2)	2a(3)	1800000
b	Earnings on investments:		
(1)	Interest:		
	(A) Interest-bearing cash (including money market accounts and certificates of deposit)	2b(1)(A)	
	(B) U.S. Government securities	2b(1)(B)	
	(C) Corporate debt instruments	2b(1)(C)	
	(D) Loans (other than to participants)	2b(1)(D)	
	(E) Participant loans	2b(1)(E)	
	(F) Other	2b(1)(F)	
	(G) Total interest. Add lines 2b(1)(A) through (F)	2b(1)(G)	0
(2)	Dividends: (A) Preferred stock	2b(2)(A)	
	(B) Common stock	2b(2)(B)	
	(C) Registered investment company shares (e.g. mutual funds)	2b(2)(C)	
	(D) Total dividends. Add lines 2b(2)(A) , (B) , and (C)	2b(2)(D)	0
(3)	Rents	2b(3)	
(4)	Net gain (loss) on sale of assets: (A) Aggregate proceeds	2b(4)(A)	
	(B) Aggregate carrying amount (see instructions)	2b(4)(B)	
	(C) Subtract line 2b(4)(B) from line 2b(4)(A) and enter result	2b(4)(C)	0
(5)	Unrealized appreciation (depreciation) of assets: (A) Real estate	2b(5)(A)	
	(B) Other	2b(5)(B)	
	(C) Total unrealized appreciation of assets. Add lines 2b(5)(A) and (B)	2b(5)(C)	0

		(a) Amount	(b) Total
(6) Net investment gain (loss) from common/collective trusts	2b(6)		
(7) Net investment gain (loss) from pooled separate accounts	2b(7)		
(8) Net investment gain (loss) from master trust investment accounts	2b(8)		7290346
(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)		
c Other income.....	2c		
d Total income. Add all income amounts in column (b) and enter total.....	2d		9090346

Expenses

e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	9812554	
(2) To insurance carriers for the provision of benefits	2e(2)		
(3) Other	2e(3)		
(4) Total benefit payments. Add lines 2e(1) through (3).....	2e(4)		9812554
f Corrective distributions (see instructions)	2f		
g Certain deemed distributions of participant loans (see instructions)	2g		
h Interest expense.....	2h		
i Administrative expenses: (1) Professional fees.....	2i(1)		
(2) Contract administrator fees.....	2i(2)		
(3) Investment advisory and management fees.....	2i(3)		
(4) Other	2i(4)		
(5) Total administrative expenses. Add lines 2i(1) through (4).....	2i(5)		0
j Total expenses. Add all expense amounts in column (b) and enter total	2j		9812554

Net Income and Reconciliation

k Net income (loss). Subtract line 2j from line 2d	2k		-722208
l Transfers of assets:			
(1) To this plan.....	2l(1)		
(2) From this plan.....	2l(2)		

Part III Accountant's Opinion

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

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

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

b Did the accountant perform a limited scope audit pursuant to 29 CFR 2520.103-8 and/or 103-12(d)?

☒ Yes ☐ No

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

(1) Name: DIXON HUGHES GOODMAN LLP

(2) EIN: 56-0747981

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

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

Part IV Compliance Questions

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

During the plan year:

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

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

	Yes	No	Amount
4a		X	
4b		X	

		Yes	No	Amount
c Were any leases to which the plan was a party in default or classified during the year as uncollectible? (Attach Schedule G (Form 5500) Part II if "Yes" is checked.)	4c		X	
d Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 4a. Attach Schedule G (Form 5500) Part III if "Yes" is checked.)	4d		X	
e Was this plan covered by a fidelity bond?	4e	X		40000000
f Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		X	
g Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	4g		X	
h Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	4h		X	
i Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i		X	
j Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)	4j		X	
k Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k		X	
l Has the plan failed to provide any benefit when due under the plan?	4l		X	
m If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m			
n If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n			
o Defined Benefit Plan or Money Purchase Pension Plan Only: Were any distributions made during the plan year to an employee who attained age 62 and had not separated from service?	4o			

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

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

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

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4073915. (See instructions.)

Part V Trust Information

6a Name of trust	6b Trust's EIN
6c Name of trustee or custodian	6d Trustee's or custodian's telephone number

SCHEDULE R (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Retirement Plan Information This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500.	OMB No. 1210-0110 2016 This Form is Open to Public Inspection.
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For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016

A Name of plan <u>RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY</u>	B Three-digit plan number (PN) ▶ <u>050</u>
C Plan sponsor's name as shown on line 2a of Form 5500 <u>INGERSOLL-RAND COMPANY</u>	D Employer Identification Number (EIN) <u>13-5156640</u>

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

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions	1	
2 Enter the EIN(s) of payor(s) who paid benefits on behalf of the plan to participants or beneficiaries during the year (if more than two, enter EINs of the two payors who paid the greatest dollar amounts of benefits): EIN(s): <u>13-3795042</u>		
Profit-sharing plans, ESOPs, and stock bonus plans, skip line 3.		
3 Number of participants (living or deceased) whose benefits were distributed in a single sum, during the plan year	3	<u>1</u>

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

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

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

Schedule R (Form 5500) 2016
v. 160205

Part V Additional Information for Multiemployer Defined Benefit Pension Plans

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

a Name of contributing employer

b EIN

c Dollar amount contributed by employer

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

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

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

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

14	Enter the number of participants on whose behalf no contributions were made by an employer as an employer of the participant for:		
	a The current year	14a	
	b The plan year immediately preceding the current plan year	14b	
	c The second preceding plan year	14c	
15	Enter the ratio of the number of participants under the plan on whose behalf no employer had an obligation to make an employer contribution during the current plan year to:		
	a The corresponding number for the plan year immediately preceding the current plan year	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:		
	a Enter the number of employers who withdrew during the preceding plan year	16a	
	b If line 16a is greater than 0, enter the aggregate amount of withdrawal liability assessed or estimated to be assessed against such withdrawn employers	16b	
17	If assets and liabilities from another plan have been transferred to or merged with this plan during the plan year, check box and see instructions regarding supplemental information to be included as an attachment. ☐		

Part VI	Additional Information for Single-Employer and Multiemployer Defined Benefit Pension Plans
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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: <u>19</u> % Investment-Grade Debt: <u>80</u> % High-Yield Debt: <u>0</u> % Real Estate: <u>1</u> % Other: <u>0</u> % b Provide the average duration of the combined investment-grade and high-yield debt: ☐ 0-3 years ☐ 3-6 years ☐ 6-9 years ☐ 9-12 years ☒ 12-15 years ☐ 15-18 years ☐ 18-21 years ☐ 21 years or more c What duration measure was used to calculate line 19(b)? ☒ Effective duration ☐ Macaulay duration ☐ Modified duration ☐ Other (specify):

Part VII	IRS Compliance Questions
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20a Is the plan a 401(k) plan? If "No," skip b	☐ Yes ☐ No
20b How did the plan satisfy the nondiscrimination requirements for employee deferrals under section 401(k)(3) for the plan year? Check all that apply:	☐ Design-based safe harbor ☐ "Prior year" ADP test ☐ "Current year" ADP test ☐ N/A
21a What testing method was used to satisfy the coverage requirements under section 410(b) for the plan year? Check all that apply:	☐ Ratio percentage test ☐ Average benefit test ☐ N/A
21b Did the plan satisfy the coverage and nondiscrimination requirements of sections 410(b) and 401(a)(4) for the plan year by combining this plan with any other plan under the permissive aggregation rules?	☐ Yes ☐ No
22a If the plan is a master and prototype plan (M&P) or volume submitter plan that received a favorable IRS opinion letter or advisory letter, enter the date of the letter / / and the serial number .	
22b If the plan is an individually-designed plan that received a favorable determination letter from the IRS, enter the date of the most recent determination letter / / .	

Independent Auditors' Report

To the Participants and Administrator of the
Retirement Plan for Former Employees of
Ingersoll-Rand Company
Davidson, North Carolina

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the Retirement Plan for Former Employees of Ingersoll-Rand Company (the "Plan"), which comprise the statements of net assets available for benefits as of December 31, 2016 and 2015, the related statements of changes in net assets available for benefits for the years then ended, the statement of accumulated plan benefits as of December 31, 2015, and the related statement of changes in accumulated plan benefits for the year ended December 31, 2015, 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, however, 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 JP Morgan Chase Bank, N.A., the trustee of the Plan, 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 holds the Plan's investment assets and executes investment transactions. The plan administrator has obtained a certification from the trustee as of December 31, 2016 and 2015 and for the years then ended, 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.

Report on Form and Content in Compliance with DOL Rules and Regulations

The form and content of the information included in the financial statements, 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 ERISA.

Dixon Hughes Goodman LLP

**Charlotte, North Carolina
October 13, 2017**

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 22

Description of Weighted Average Retirement Age

as of January 1, 2016

There are no active participants in the plan.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 32
Schedule of Amortization Bases
as of January 1, 2016

Type of Base	Date Established	Initial Amount	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
1 Shortfall	01/01/2016	3,662,893	7	3,662,893	605,196
Total				3,662,893	605,196

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Ingersoll-Rand Company
EIN/PN	13-5156640/050
Plan Name	Retirement Plan for Former Employees of Ingersoll-Rand Company
Valuation Date	January 1, 2016
Enrolled Actuary	Brenda G. Stovall
Enrollment Number	17-05721

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V

Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

■	Applicable month	September
■	Interest rate basis	3-Segment Rates

Interest rates:

Interest rates:		Reflecting Corridors	Not Reflecting Corridors
■	First segment rate	4.43%	1.34%
■	Second segment rate	5.91%	4.03%
■	Third segment rate	6.65%	5.06%
■	Effective interest rate	5.89%	4.02%

Annual rates of increase

■	Compensation	Not applicable
■	Future Social Security wage bases	Not applicable
■	Statutory limits on compensation	Not applicable
■	Cost of living adjustments	0.00%

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Demographic Assumptions

Inclusion date	The valuation date coincident with or next following the date on which the employee becomes a participant.
New or rehired employees	It was assumed there will be no new or rehired employees.
Mortality	
■ Healthy	The prescribed mortality assumption under Section 430(h)(3)(A) of the Internal Revenue Code using static tables with separate mortality rates for annuitants and non-annuitants.
■ Disabled	Mortality in accordance with Revenue Ruling 96-7.
Retirement	Terminated Vested participants are assumed to retire at age 65.
Unpredictable Contingent Event Benefit (UCEB) assumptions	None
Percent married	Actual data is used for retired participants. For all other participants 70% of males and 55% of females are assumed to be married at retirement.
Spouse age	Females are assumed to be 2 years younger than their husbands.
Administrative expenses	\$935,000 of administrative expenses are assumed to be paid out of the trust in 2017 and are added to the target normal cost. The amount is based on the noninvestment-related expenses that were paid out of the plan in the prior fiscal year and the expected change in PBGC variable rate premium from the prior year to the current year.
Timing of benefit payments	Annuity payments are payable monthly at the beginning of the month.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Methods

Valuation date First day of plan year

Funding target Present value of accrued benefits

Target normal cost Present value of benefits expected to accrue during plan year plus plan-related expenses expected to be paid from plan assets during plan year.

Actuarial value of assets for determining minimum required contributions Under this method, the valuation assets are equal to the average of three values (all determined without regard to receivable contributions), the result increased by the discounted present value of contributions expected to be made after the valuation date based on the prior plan year PPA effective interest rate. This amount is then subject to a 10% corridor around the market value of assets (including the discounted present value of receivable contributions) as of the valuation date. The three values used to develop the average value are: the market value of assets as of the current valuation date, the adjusted market value of assets as of the prior valuation date and the adjusted market value of assets as of the second prior valuation date. The adjusted market value as of a relevant valuation date is equal to the market value of assets as of the prior valuation date increased by actual plan contributions and assumed return on plan assets and decreased by actual plan disbursements after that date until the current valuation date. The assumed rate of return on plan assets for the prior plan year (pursuant to IRS Notice 2009-22) was 5.25%, which is the lesser of the anticipated rate of return on assets for the plan year, equal to 5.25%, and the applicable limitation for the plan year, equal to 6.81%. The assumed rate of return on plan assets for the second prior plan year (pursuant to IRS Notice 2009-22) was 5.50%, which is the lesser of the anticipated rate of return on assets for the plan year, equal to 5.50%, and the applicable limitation for the plan year, equal to 6.99%. The algebraically equivalent development of this method (pursuant to IRS Notice 2009-22) is shown in Section 2.3. Because expected investment returns under this method are limited under WRERA, over time it is more likely to produce an actuarial value that is expected to be less than the market value of assets.

Benefits not valued We believe that we have reflected all significant Plan provisions in this valuation.

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Participant data Employee data was supplied by Ingersoll Rand as of the census date. We have not independently verified the accuracy or completeness of the data or information provided, but we have performed limited checks for reasonableness.

Terminated vested participants over age 65 were assumed to receive benefits actuarially increased from age 65 to January 1, 2016 under the actuarial equivalence basis detailed in the plan document.

Tax policy The actuarial valuation performed for the plan year ending December 31, 2016 is used to determine the maximum deductible contribution for the tax year ending December 31, 2016.

Assumptions Rationale - Significant Economic Assumptions

Discount rate The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.

Administrative expenses Administrative expenses are estimated by determining the expected actual expenses for the coming year, reflecting items like expected PBGC premiums and actual expenses paid from the trust the preceding year.

Assumptions Rationale - Significant Demographic Assumptions

Healthy Mortality Assumptions used for funding purposes are as prescribed by IRC §430(h).

Disabled Mortality Assumptions used for funding purposes are as prescribed by IRC §430(h).

Form of payment The assumed form and timing of payments were selected based on recent experience and best estimate of future behavior.

Source of Prescribed Methods

Funding methods The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Changes in Assumptions and Methods

**Change in
assumptions since
prior valuation**

- The segment interest rates used to calculate the funding target and target normal cost were updated from an applicable month of September 2014 to September 2015.
- The required mortality table used to calculate the funding target and target normal cost was updated to include one additional year of projected mortality improvements.
- The assumed plan-related expenses added to the target normal cost were changed from \$710,000 for 2015 to \$935,000 for 2016.

**Change in methods
since prior valuation**

None

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V Summary of Plan Provisions

Plan Provisions

The original plan was effective March 31, 1988. The Plan was amended and restated effective January, 2010.

Coverage and Participation

The plan was created by the spin-off from the Clark Equipment Company Plan 23 of a mirror image pension plan for retired and deferred vested former employees in that plan as of March 31, 1988. Effective April 1, 1988, Clark Equipment Company Plans 1, 2, 3, 5, 10, 30, 40 and 44 were also merged into the plan.

Effective December 31, 1997, the Retirement Plan for Employees of Ingersoll-Rand Oilfield Products Company was merged into the plan.

Effective December 31, 2000, the Ingersoll-Dresser Pump Company Pension Plan was merged into the plan.

Effective December 31, 2002, the Alco Hourly Employees' Pension Plan, the Pension Agreement between Fafnir Bearing Division of the Torrington Company and Local No. 133, the Pension Agreement between the Fafnir Bearings Division of the Torrington Company and Local No. 1249 and the Thermo King Pension Plan for Hourly Employees at the Montgomery, Alabama Plant were merged into the plan.

Effective December 31, 2005, the Blaw Knox Construction Equipment Corporation Hourly Pension Plan was merged into the plan.

Effective December 31, 2006, the Clark Equipment Company General Non-Salaried Employee Pension Plan was merged into the plan.

Effective April 30, 2007 all participants employed or formerly employed by Ingersoll Rand's Road Machinery business units were spun-off in connection with the sale of those business units to Volvo Construction Equipment-North America.

Effective November 30, 2007 all participants employed or formerly employed by Ingersoll Rand's Bobcat, Utility Equipment and Attachments business units were spun-off in connection with the sale of those business units to Doosan Infracore.

Effective December 1, 2013, certain participants formerly employed by Ingersoll Rand's security businesses were spun-off in connection with the spin-off of those business units to Allegion.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Eligibility for Benefits

Normal Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Early Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Postponed Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Disability Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Preretirement Death Benefit

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Deferred Vested Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Changes in provisions since last actuarial valuation

None.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>Pension Benefit Guaranty Corporation</small>	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ► File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2016 This Form is Open to Public Inspection
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For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016

► Round off amounts to nearest dollar.

► Caution: A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan RETIREMENT PLAN FOR FORMER EMPLOYEES OF INGERSOLL-RAND COMPANY	B Three-digit plan number (PN) ►	050
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF INGERSOLL-RAND COMPANY	D Employer Identification Number (EIN) 13-5156640	
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☐ 100 or fewer ☐ 101-500 ☒ More than 500	

Part I Basic Information			
1	Enter the valuation date: Month <u>01</u> Day <u>01</u> Year <u>2016</u>		
2	Assets:		
	a Market value.....	2a	103,844,935
	b Actuarial value.....	2b	106,473,114
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment.....	2,208	84,491,655
	b For terminated vested participants.....	660	25,644,352
	c For active participants.....	0	0
	d Total.....	2,868	110,136,007
4	If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐		
	a Funding target disregarding prescribed at-risk assumptions.....	4a	
	b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor.....	4b	
5	Effective interest rate.....	5	5.89%
6	Target normal cost.....	6	935,000

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	Brenda G Stovall Signature of actuary	<div style="font-size: 2em; margin-bottom: 10px;">9/22/17</div> Date 1705721
	Type or print name of actuary Towers Watson Delaware Inc.	Most recent enrollment number 901-930-0000
	Firm name 3340 Players Club Parkway Memphis TN 38125 Address of the firm	Telephone number (including area code)

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 ☐

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

Schedule SB (Form 5500) 2016
v. 160205

Part II Beginning of Year Carryover and Prefunding Balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year).....	0	0
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	0
10 Interest on line 9 using prior year's actual return of <u>-2.47%</u>	0	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year).....		0
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 <u>6.10%</u>		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	0

Part III Funding Percentages

14 Funding target attainment percentage	14	96.67%
15 Adjusted funding target attainment percentage.....	15	96.67%
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	101.32%
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

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
09/13/2017	1,800,000	0			
Totals ▶			18(b)	1,800,000	18(c)
					0

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	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	1,633,124

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? ☐ Yes ☒ No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☐ Yes ☐ 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) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost**21** Discount rate:**a** Segment rates:1st segment:
4.43 %2nd segment:
5.91 %3rd segment:
6.65 %☐ N/A, full yield curve used**b** Applicable month (enter code).....**21b**

4

22 Weighted average retirement age**22****23** Mortality table(s) (see instructions)☐

Prescribed - combined

☒

Prescribed - separate

☐

Substitute

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. ☐ Yes ☒ No**25** Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No**26** Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment. ☐ Yes ☒ No**27** If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment**27****Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years****28** Unpaid minimum required contributions for all prior years **28** 0**29** Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a) **29** 0**30** Remaining amount of unpaid minimum required contributions (line 28 minus line 29) **30** 0**Part VIII Minimum Required Contribution For Current Year****31** Target normal cost and excess assets (see instructions):**a** Target normal cost (line 6)**31a**

935,000

b Excess assets, if applicable, but not greater than line 31a**31b**

0

32 Amortization installments:

Outstanding Balance

Installment

a Net shortfall amortization installment.....

3,662,893

605,196

b Waiver amortization installment

0

0

33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount**33****34** Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)..... **34** 1,540,196

Carryover balance

Prefunding balance

Total balance

35 Balances elected for use to offset funding requirement.....

0

0

0

36 Additional cash requirement (line 34 minus line 35)..... **36** 1,540,196**37** Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)..... **37** 1,633,124**38** Present value of excess contributions for current year (see instructions)**a** Total (excess, if any, of line 37 over line 36)**38a**

92,928

b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances**38b**

0

39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)..... **39** 0**40** Unpaid minimum required contributions for all years **40** 0**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☐

2 plus 7 years

☐

15 years

b Eligible plan year(s) for which the election in line 41a was made☐

2008

☐

2009

☐

2010

☐

2011

42 Amount of acceleration adjustment**42****43** Excess installment acceleration amount to be carried over to future plan years**43**

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 22

Description of Weighted Average Retirement Age as of January 1, 2016

There are no active participants in the plan.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB, Line 32
Schedule of Amortization Bases
as of January 1, 2016

Type of Base	Date Established	Initial Amount	Remaining Amortization Period (Years)	Outstanding Balance	Amortization Payment
1 Shortfall	01/01/2016	3,662,893	7	3,662,893	605,196
Total				3,662,893	605,196

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V

Statement of Actuarial Assumptions/Methods

Economic Assumptions

Interest rate basis:

■ Applicable month	September
■ Interest rate basis	3-Segment Rates

Interest rates:

	Reflecting Corridors	Not Reflecting Corridors
■ First segment rate	4.43%	1.34%
■ Second segment rate	5.91%	4.03%
■ Third segment rate	6.65%	5.06%
■ Effective interest rate	5.89%	4.02%

Annual rates of increase

■ Compensation	Not applicable
■ Future Social Security wage bases	Not applicable
■ Statutory limits on compensation	Not applicable
■ Cost of living adjustments	0.00%

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Demographic Assumptions

Inclusion date The valuation date coincident with or next following the date on which the employee becomes a participant.

New or rehired employees It was assumed there will be no new or rehired employees.

Mortality

■ **Healthy** The prescribed mortality assumption under Section 430(h)(3)(A) of the Internal Revenue Code using static tables with separate mortality rates for annuitants and non-annuitants.

■ **Disabled** Mortality in accordance with Revenue Ruling 96-7.

Retirement Terminated Vested participants are assumed to retire at age 65.

**Unpredictable
Contingent Event
Benefit (UCEB)
assumptions** None

Percent married Actual data is used for retired participants. For all other participants 70% of males and 55% of females are assumed to be married at retirement.

Spouse age Females are assumed to be 2 years younger than their husbands.

Administrative expenses \$935,000 of administrative expenses are assumed to be paid out of the trust in 2017 and are added to the target normal cost. The amount is based on the noninvestment-related expenses that were paid out of the plan in the prior fiscal year and the expected change in PBGC variable rate premium from the prior year to the current year.

Timing of benefit payments Annuity payments are payable monthly at the beginning of the month.

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Methods

Valuation date First day of plan year

Funding target Present value of accrued benefits

Target normal cost Present value of benefits expected to accrue during plan year plus plan-related expenses expected to be paid from plan assets during plan year.

Actuarial value of assets for determining minimum required contributions Under this method, the valuation assets are equal to the average of three values (all determined without regard to receivable contributions), the result increased by the discounted present value of contributions expected to be made after the valuation date based on the prior plan year PPA effective interest rate. This amount is then subject to a 10% corridor around the market value of assets (including the discounted present value of receivable contributions) as of the valuation date. The three values used to develop the average value are: the market value of assets as of the current valuation date, the adjusted market value of assets as of the prior valuation date and the adjusted market value of assets as of the second prior valuation date. The adjusted market value as of a relevant valuation date is equal to the market value of assets as of the prior valuation date increased by actual plan contributions and assumed return on plan assets and decreased by actual plan disbursements after that date until the current valuation date. The assumed rate of return on plan assets for the prior plan year (pursuant to IRS Notice 2009-22) was 5.25%, which is the lesser of the anticipated rate of return on assets for the plan year, equal to 5.25%, and the applicable limitation for the plan year, equal to 6.81%. The assumed rate of return on plan assets for the second prior plan year (pursuant to IRS Notice 2009-22) was 5.50%, which is the lesser of the anticipated rate of return on assets for the plan year, equal to 5.50%, and the applicable limitation for the plan year, equal to 6.99%. The algebraically equivalent development of this method (pursuant to IRS Notice 2009-22) is shown in Section 2.3. Because expected investment returns under this method are limited under WRERA, over time it is more likely to produce an actuarial value that is expected to be less than the market value of assets.

Benefits not valued We believe that we have reflected all significant Plan provisions in this valuation.

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Participant data

Employee data was supplied by Ingersoll Rand as of the census date. We have not independently verified the accuracy or completeness of the data or information provided, but we have performed limited checks for reasonableness.

Terminated vested participants over age 65 were assumed to receive benefits actuarially increased from age 65 to January 1, 2016 under the actuarial equivalence basis detailed in the plan document.

Tax policy

The actuarial valuation performed for the plan year ending December 31, 2016 is used to determine the maximum deductible contribution for the tax year ending December 31, 2016.

Assumptions Rationale - Significant Economic Assumptions

Discount rate

The basis chosen was selected by the plan sponsor from among choices prescribed by law, all of which are based on observed market data over certain periods of time.

Administrative expenses

Administrative expenses are estimated by determining the expected actual expenses for the coming year, reflecting items like expected PBGC premiums and actual expenses paid from the trust the preceding year.

Assumptions Rationale - Significant Demographic Assumptions

Healthy Mortality

Assumptions used for funding purposes are as prescribed by IRC §430(h).

Disabled Mortality

Assumptions used for funding purposes are as prescribed by IRC §430(h).

Form of payment

The assumed form and timing of payments were selected based on recent experience and best estimate of future behavior.

Source of Prescribed Methods

Funding methods

The methods used for funding purposes as described in Appendix A, including the method of determining plan assets, are "prescribed methods set by law", as defined in the actuarial standards of practice (ASOPs). These methods are required by IRC §430, or were selected by the plan sponsor from a range of methods permitted by IRC §430.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Changes in Assumptions and Methods

**Change in
assumptions since
prior valuation**

- The segment interest rates used to calculate the funding target and target normal cost were updated from an applicable month of September 2014 to September 2015.
- The required mortality table used to calculate the funding target and target normal cost was updated to included one additional year of projected mortality improvements.
- The assumed plan-related expenses added to the target normal cost were changed from \$710,000 for 2015 to \$935,000 for 2016.

**Change in methods
since prior valuation**

None

Plan Name: Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN: 13-5156640/050
Plan Sponsor: Ingersoll-Rand Company
Valuation Date: January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB, Part V

Summary of Plan Provisions

Plan Provisions

The original plan was effective March 31, 1988. The Plan was amended and restated effective January, 2010.

Coverage and Participation

The plan was created by the spin-off from the Clark Equipment Company Plan 23 of a mirror image pension plan for retired and deferred vested former employees in that plan as of March 31, 1988. Effective April 1, 1988, Clark Equipment Company Plans 1, 2, 3, 5, 10, 30, 40 and 44 were also merged into the plan.

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Effective December 31, 2000, the Ingersoll-Dresser Pump Company Pension Plan was merged into the plan.

Effective December 31, 2002, the Alco Hourly Employees' Pension Plan, the Pension Agreement between Fafnir Bearing Division of the Torrington Company and Local No. 133, the Pension Agreement between the Fafnir Bearings Division of the Torrington Company and Local No. 1249 and the Thermo King Pension Plan for Hourly Employees at the Montgomery, Alabama Plant were merged into the plan.

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Effective December 31, 2006, the Clark Equipment Company General Non-Salaried Employee Pension Plan was merged into the plan.

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Effective November 30, 2007 all participants employed or formerly employed by Ingersoll Rand's Bobcat, Utility Equipment and Attachments business units were spun-off in connection with the sale of those business units to Doosan Infracore.

Effective December 1, 2013, certain participants formerly employed by Ingersoll Rand's security businesses were spun-off in connection with the spin-off of those business units to Allegion.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Eligibility for Benefits

Normal Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Early Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Postponed Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Disability Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Preretirement Death Benefit

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Deferred Vested Retirement

- | | |
|-----------------|------------------------------|
| (a) Eligibility | According to original plans. |
| (b) Benefit | According to original plans. |

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Changes in provisions since last actuarial valuation

None.

Plan Name:	Retirement Plan for Former Employees of Ingersoll-Rand Company
EIN / PN:	13-5156640/050
Plan Sponsor:	Ingersoll-Rand Company
Valuation Date	January 1, 2016

SCHEDULE SB ATTACHMENTS

Schedule SB – Statement by Enrolled Actuary

Plan Sponsor	Ingersoll-Rand Company
EIN/PN	13-5156640/050
Plan Name	Retirement Plan for Former Employees of Ingersoll-Rand Company
Valuation Date	January 1, 2016
Enrolled Actuary	Brenda G. Stovall
Enrollment Number	17-05721

The actuarial assumptions that are not mandated by IRC § 430 and regulations, represent the enrolled actuary's best estimate of anticipated experience under the plan, subject to the following conditions:

The actuarial valuation, on which the information in this Schedule SB is based, has been prepared in reliance upon the employee and financial data furnished by the plan administrator and the trustee. The enrolled actuary has not made a rigorous check of the accuracy of this information but has accepted it after reviewing it and concluding it is reasonable in relation to similar information furnished in previous years. The amounts of contributions and dates paid shown in Item 18 of Schedule SB were listed in reliance on information provided by the plan administrator and/or trustee.

**Retirement Plan for Former
Employees of Ingersoll-Rand
Company**

Financial Statements

December 31, 2016 and 2015

Retirement Plan for Former Employees of Ingersoll-Rand Company
Table of Contents

	<u>Page</u>
Independent Auditors' Report	1
Financial Statements	
Statements of Net Assets Available for Benefits as of December 31, 2016 and 2015	3
Statements of Changes in Net Assets Available for Benefits for the Years Ended December 31, 2016 and 2015	4
Statement of Accumulated Plan Benefits December 31, 2015	5
Statement of Changes in Accumulated Plan Benefits Year Ended December 31, 2015	6
Notes to Financial Statements	7

Note: Schedules required by the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974 ("ERISA") have not been presented because the Retirement Plan for Former Employees of Ingersoll-Rand Company's only investment is in the Ingersoll-Rand Company Collective Trust Fund ("CTF").

Independent Auditors' Report

To the Participants and Administrator of the
Retirement Plan for Former Employees of
Ingersoll-Rand Company
Davidson, North Carolina

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of the Retirement Plan for Former Employees of Ingersoll-Rand Company (the "Plan"), which comprise the statements of net assets available for benefits as of December 31, 2016 and 2015, the related statements of changes in net assets available for benefits for the years then ended, the statement of accumulated plan benefits as of December 31, 2015, and the related statement of changes in accumulated plan benefits for the year ended December 31, 2015, 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, however, 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 JP Morgan Chase Bank, N.A., the trustee of the Plan, 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 holds the Plan's investment assets and executes investment transactions. The plan administrator has obtained a certification from the trustee as of December 31, 2016 and 2015 and for the years then ended, 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.

Report on Form and Content in Compliance with DOL Rules and Regulations

The form and content of the information included in the financial statements, 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 ERISA.

Dixon Hughes Goodman LLP

**Charlotte, North Carolina
October 13, 2017**

Retirement Plan for Former Employees of Ingersoll-Rand Company
Statements of Net Assets Available for Benefits
December 31, 2016 and 2015

	2016	2015
Assets		
Plan's gross interest in Collective Trust Fund, at fair value (Note 4)	\$ 101,275,023	\$ 103,844,936
Employer contribution receivable	<u>1,800,000</u>	<u>—</u>
Total Assets	103,075,023	103,844,936
Liabilities		
Accrued expenses	<u>11,612</u>	<u>59,317</u>
Net assets available for benefits	<u><u>\$ 103,063,411</u></u>	<u><u>\$ 103,785,619</u></u>

The accompanying notes are an integral part of these financial statements.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Statements of Changes in Net Assets Available for Benefits
Years Ended December 31, 2016 and 2015

	2016	2015
Additions (reductions) to net assets attributable to:		
Plan's interest in income (loss) of the		
Collective Trust Fund (Note 4)	\$ 8,476,858	\$ (2,477,375)
Employer contributions	<u>1,800,000</u>	<u>—</u>
Total additions	<u>10,276,858</u>	<u>(2,477,375)</u>
Deductions from net assets attributable to:		
Benefit payments to pensioners and beneficiaries	9,812,554	9,658,623
Trustee and investment management fees	199,033	335,899
Professional and PBGC fees	<u>987,479</u>	<u>662,496</u>
Total deductions	<u>10,999,066</u>	<u>10,657,018</u>
Net increase (decrease)	(722,208)	(13,134,393)
Net assets available for benefits		
Beginning of year	<u>103,785,619</u>	<u>116,920,012</u>
End of year	<u><u>\$ 103,063,411</u></u>	<u><u>\$ 103,785,619</u></u>

The accompanying notes are an integral part of these financial statements.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Statement of Accumulated Plan Benefits
December 31, 2015*

Actuarial present value of accumulated plan benefits (Note 2)

Vested benefits

Participants currently receiving payments	\$ 83,669,608
Other participants	26,385,814
Total vested benefits	<u>110,055,422</u>
Total actuarial present value of accumulated plan benefits	<u>\$ 110,055,422</u>

*Based on the latest actuarial valuation at January 1, 2016.

The accompanying notes are an integral part of these financial statements.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Statement of Changes in Accumulated Plan Benefits
Year Ended December 31, 2015*

Actuarial present value of accumulated plan benefits at January 1, 2015	<u>\$ 115,620,760</u>
Increase (decrease) during the year attributable to:	
Increase for interest due to a decrease in the discount period	5,816,551
Net actuarial gains	532,153
Benefits paid	(9,658,623)
Change of assumptions	<u>(2,255,419)</u>
Net decrease during the year	<u>(5,565,338)</u>
Actuarial present value of accumulated plan benefits at December 31, 2015	<u><u>\$ 110,055,422</u></u>

*Based on the latest actuarial valuation at January 1, 2016.

The accompanying notes are an integral part of these financial statements.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

1. Description of the Plan

The following brief description of the Retirement Plan for Former Employees of Ingersoll-Rand Company (the “Plan”) is provided for general information purposes. Participants should refer to the plan document for complete information.

General

The Plan is sponsored by Ingersoll-Rand Company, a U.S. subsidiary of Ingersoll-Rand plc (collectively referred to as the “Company”). The Plan is a noncontributory defined benefit pension plan covering only certain retired and terminated employees of the Company and certain U.S. subsidiaries and affiliates previously entitled to pension benefits under their previous company plans that were merged into the Plan. The Plan is subject to the provisions of the Employee Retirement Income Security Act of 1974, as amended (“ERISA”) and Internal Revenue Code of 1986, as amended (“IRC”).

As the Plan covers only retired and other former employees of the Company and its subsidiaries, no future benefit accruals are provided under the Plan. If a former employee, who was a participant in one of the merged plans and who is receiving payments under the Plan, subsequently resumes employment with the Company, benefit payments under the Plan shall be suspended, and any subsequent service with the Company shall be credited to the applicable active pension plan or savings plan.

Pension Benefits

The normal retirement age is provided under the applicable variation of the Plan. The monthly pension benefit is based on annual compensation, Social Security benefit, and years of credited service. Variations of this formula apply to employees of specific subsidiaries of the Company. Eligibility for early retirement and surviving spouse benefits vary as defined by the applicable variations of the Plan. Employees electing early retirement receive reduced pension benefits based on the commencement of pension payments and the applicable variations.

2. Summary of Significant Accounting Policies

Basis of Accounting

The financial statements of the Plan are prepared under the accrual method of accounting.

Use of Estimates

The preparation of financial statements in accordance with accounting principles generally accepted in the United States of America (“GAAP”) requires management to make estimates and assumptions that affect the reported amounts of assets, liabilities and changes therein, disclosure of contingent assets and liabilities, and the actuarial present value of accumulated plan benefits at the dates of the financial statements. Actual results could differ from those estimates.

Valuation of Investments

Plan investments are held in the Ingersoll-Rand Collective Trust Fund (“CTF”), a master trust administered by the JPMorgan Chase Bank N.A. (the “Trustee”). The CTF provides unified investment management for certain U.S. tax qualified pension plans of Ingersoll-Rand plc and its domestic subsidiaries.

The CTF maintains separate accounts at fair value for each participating plan. Each account records contributions, benefit payments and direct plan disbursements and receipts, and a pro rata share of indirect expenses, realized and unrealized gains or losses, interest and dividend income. Pro rated items are allocated monthly to each account based on each participating Plan's beginning of month asset value in relation to the total CTF assets.

Investments in the CTF are reported at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. See Note 3 for a discussion of fair value measurements.

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) represents the Plan's pro-rata share of net realized and unrealized gains and losses on the CTF's investments.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

Funding Policy

The Company's funding policy is to make annual minimum contributions as required by law as determined by the actuary, and other contributions in its discretion as allowed by law. The actuary determines the required contributions using the Projected Unit Credit Cost Method. As determined by the actuary, no contributions were required during 2016 and 2015; however, the Company made contributions of \$1,800,000 during 2016. The amounts over the minimum required contributions were discretionary.

Expenses

The Plan pays many expenses incurred with administering the Plan and a pro rata share of the CTF expenses. The Plan's actuarial cost method includes a factor to fund such expenses through employer contributions. Fees paid by the Plan include various professional fees, investment fees, Pension Benefit Guaranty Corporation ("PBGC") fees and any other costs of administering the Plan. The PBGC requires the Plan to pay an annual fee based on the number of participants in the Plan. The fee for 2016 and 2015 was \$64 and \$57 per participant, respectively; however, the yearly cost is determined by the PBGC and is subject to change. The annual fixed PBGC fee per participant is expected to be \$69 in 2017 and \$74 in 2018.

Benefit Payments

Benefit payments are recorded when paid.

Subsequent Events

The Plan has evaluated subsequent events through October 13, 2017, in connection with the preparation of these financial statements, which is the date the financial statements were available to be issued.

Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments, including lump-sum distributions that are attributable under the Plan's provisions to the service that employees have rendered. Accumulated plan benefits include vested benefits expected to be paid to retired or terminated employees or their beneficiaries, beneficiaries of employees who have died, and present employees or their beneficiaries. Benefits payable under all circumstances 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 at January 1, 2016 was determined by the consulting actuary. The actuarial present value 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 significant actuarial assumptions used in the valuation at January 1, 2016 and 2015 were as follows:

- Participants' life expectancy for non-disabled participants, based on Base Mortality Table RP-2014 base table projected back to 2011 with Mortality Projection Scale MP-2014 with a 15 year convergence period and a long term rate of 0.75% with separate mortality rates for annuitants and non-annuitants. Life expectancy for disabled participants utilized the Base Mortality table RP-2014 disabled retiree base table projected back to 2011 with Mortality Projection Scale MP-2014 with a 15 year convergence period and a long term rate of 0.75%.
- Terminated vested participants are assumed to retire at age 65.
- Administrative expense assumption was \$935,000 and \$710,000 for 2016 and 2015, respectively.
- Average interest rate, which is assumed to be 5.50% and 5.25% in 2016 and 2015, respectively for funding.

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 as may be required under applicable law.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

New Accounting Pronouncements

In May 2015, the Financial Accounting Standards Board (“FASB”) issued Accounting Standards Update (“ASU”) No. 2015-07, *Disclosures for Investments in Certain Entities That Calculate Net Asset Value per Share (or Its Equivalent)*, which exempts investments measured using the net asset value (“NAV”) practical expedient in Accounting Standards Codification 820, *Fair Value Measurement*, from categorization within the fair value hierarchy. This guidance requires retrospective application and is effective for annual reporting periods beginning on or after December 15, 2015. As such, the Plan has removed all investments from the fair value hierarchy for which fair value is measured using the NAV per share practical expedient. The adoption has been reflected in Note 4.

In July 2015, the FASB issued ASU 2015-12, *Plan Accounting: Defined Benefit Pension Plans (Topic 960), Defined Contribution Pension Plans (Topic 962), and Health and Welfare Benefit Plans (Topic 965): Part (I) Fully Benefit-Responsive Investment Contracts, Part (II) Plan Investment Disclosures, Part (III) Measurement Date Practical Expedient*. This three-part standard simplifies employee benefit plan reporting with respect to fully benefit-responsive investment contracts and plan investment disclosures, and provides for a measurement-date practical expedient. Part I and Part II are effective for fiscal years beginning after December 15, 2015, and should be applied retrospectively, with early application permitted. Part III is effective for fiscal years beginning after December 15, 2015, and should be applied prospectively, with early application permitted. The adoption of Parts I and III had no effect on the financial statement presentation. The adoption of Part II eliminated the requirement to disaggregate investments by nature, characteristics and risks. The adoption has been reflected in Note 4.

In February 2017, the FASB issued ASU No. 2017-06, *Plan Accounting: Defined Benefit Pension Plans (Topic 960), Defined Contribution Pension Plans (Topic 962), Health and Welfare Benefit Plans (Topic 965): Employee Benefit Plan Master Trust Reporting*. This guidance requires the disclosure of the Plan's dollar amount of their interest in each general type of investment held by the master trust. In addition, the guidance requires disclosure of the master trust's other asset and liability balances and the Plan's interest in each of those other assets and liability balances. This guidance requires retrospective application and is effective for annual reporting periods beginning on or after December 15, 2018. Early adoption is permitted. The Company does not expect the adoption of this accounting guidance to have a significant impact on the Plan's financial statements.

3. Fair Value Measurements

Fair value is defined as the exchange price that would be received to sell an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants on the measurement date. Fair value measurements are based on a framework that utilizes the inputs market participants use to determine the fair value of an asset or liability and establishes a fair value hierarchy to prioritize those inputs. The fair value hierarchy is comprised of three levels that are described below:

- | | |
|---------|--|
| Level 1 | Inputs to the valuation methodology are based on quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access. |
| Level 2 | Inputs other than Level 1. Inputs to the valuation methodology include: <ul style="list-style-type: none">• Quoted prices for similar assets or liabilities in active markets;• Quoted prices for identical or similar assets or liabilities in markets that are not active;• Other inputs that are observable or can be corroborated by observable market data for substantially the full term of the asset or liability. |
| Level 3 | Inputs to the valuation methodology are unobservable inputs based on little or no market activity and that are significant to the fair value of the assets and liabilities. |

The fair value hierarchy requires an entity to maximize the use of observable inputs and minimize the use of unobservable inputs when measuring fair value. Observable inputs are obtained from independent sources and can be validated by a third party, whereas unobservable inputs reflect assumptions regarding what a third party would use in pricing an asset or liability based on the best information available under the circumstances. A financial instrument's categorization within the fair value hierarchy is based upon the lowest level of input that is significant to the fair value measurement.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

Following is a description of the valuation methodologies used for the underlying assets in the CTF measured at fair value. There have been no significant changes in the methodologies used at December 31, 2016 and 2015.

Commingled funds: The investments are public investment vehicles valued using their daily Net Asset Value (“NAV”) per share or the equivalent. NAV per share or the equivalent is used for fair value purposes as a practical expedient. NAVs are calculated by the investment manager or sponsor of the fund. The NAV is a reasonable exit price, but it is quoted in a market that is not active.

U.S. government and agency obligations: Quoted market prices are not available for these securities. Fixed income securities are valued through a market approach with inputs including, but not limited to, benchmark yields, reported trades, broker quotes and issuer spreads. Such securities are classified as Level 2.

Corporate and foreign bonds: Quoted market prices are not available for these securities. Fixed income securities are valued through a market approach with inputs including, but not limited to, benchmark yields, reported trades, broker quotes and issuer spreads. Such securities are classified as Level 2.

Mortgage-backed securities, collateralized mortgage obligations and other asset-backed securities: Prices are based on a compilation of primarily observable market information or a broker quote in a non-active market. Fixed income securities are valued through a market approach with inputs including, but not limited to, benchmark yields, reported trades, broker quotes and issuer spreads. Such securities are classified as Level 2.

Registered mutual fund - equity specialty: The shares of registered investment companies are valued at quoted market prices in an exchange or active market. Registered mutual funds are pooled assets of multiple investors overseen by investment managers. Investors own a proportionate interest in the fund (i.e. number of units of the fund). Daily price (Net Asset Value or “NAV” per share) is determined based on the total market value of the fund divided by total number of shares outstanding. Registered mutual funds are typically daily traded, and their NAVs are publicly quoted. Such securities are classified as Level 1.

Registered mutual fund - fixed income specialty: The shares of registered investment companies are valued at quoted market prices in a closed exchange. Registered mutual funds are pooled assets of multiple investors overseen by investment managers. Investors own a proportionate interest in the fund (i.e. number of units of the fund). Daily price (Net Asset Value or “NAV” per share) is determined based on the total market value of the underlying assets of the fund divided by total number of shares outstanding. Such securities are classified as Level 2.

Cash and cash equivalents: The investments are valued using a market approach with inputs including quoted market prices for either identical or similar instruments. As these investments are not traded on active markets, these investments are classified as Level 2.

Real estate limited partnerships: Investments in real estate take the form of direct investment in real estate funds. Private real estate fund values are reported by the fund manager and are based on valuation or appraisal of the underlying investments. As the investments are infrequently traded and may not have available comparables, these investments are classified as Level 3.

Derivatives: Exchange-traded derivatives valued using quoted prices are classified within level 1 of the valuation hierarchy. If they are not listed on an exchange, derivative contracts are valued using models that use as their basis readily observable market parameters, which are actively quoted in the market and can be validated through external sources. Depending on the types and contractual terms of derivatives, fair value can be modeled using a series of techniques, such as the Black-Scholes option pricing model, simulation models or a combination of various models, which are consistently applied. Most of the inputs for this valuation are readily observable from actively quoted markets. Such instruments are generally classified as Level 2.

Guaranteed Interest Contracts (“GIC”): The value is reported based upon observable inputs, including the insurance company’s assumptions as to what market participants would use in pricing such instruments. GICs are classified as Level 3.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

The methods described above may produce a fair value that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

The asset's or liability's fair value measurement level within the fair value hierarchy is based on the lowest level of any input that is significant to the fair value measurement. Valuation techniques used need to maximize the use of observable inputs and minimize the use of unobservable inputs. See Note 4 for further disclosures of the fair value of the assets held within the CTF.

4. Investments in the Collective Trust Fund (Master Trust)

All of the Plan's investments are included in the CTF, which was established for the investment of assets of the Plan and several other Company sponsored U.S. tax qualified retirement plans. Each participating retirement plan has an undivided interest in the CTF. Assets of the CTF are held by the Trustee. At December 31, 2016 and 2015, the Plan's interest in the net assets of the CTF was approximately 7.41% and 7.70%, respectively.

The following investments and net appreciation (depreciation) in fair value of investments, interest, and dividend income and other receipts of the CTF are certified by the Trustee to be complete and accurate. The Trustee has also certified the Plan's proportionate share of such items to be complete and accurate. The CTF financial statements are prepared on the modified cash basis of accounting, while the Plan's financial statements are prepared on the accrual basis of accounting.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

	2016	2015
Investments, at fair value		
Cash and cash equivalents	\$ 10,181,634	\$ 14,801,535
Commingled funds	231,040,603	221,684,878
U.S. government and agency obligations	346,618,257	381,245,819
Corporate and foreign bonds	582,667,583	576,061,191
Asset-backed and mortgage-backed securities	68,495,672	17,554,161
Registered mutual funds - fixed income specialty	80,724,201	87,944,990
Registered mutual funds - equity specialty	31,682,915	29,683,515
Other investments (including real estate limited partnerships, derivatives, and guaranteed interest contracts)	12,048,129	12,242,406
Total investments	<u>1,363,458,994</u>	<u>1,341,218,495</u>
Receivables		
Accrued interest and dividends	9,807,447	10,573,731
Securities sold	39,130,675	14,235,214
Other receivables	225,404	128,924
Total receivables	<u>49,163,526</u>	<u>24,937,869</u>
Total assets	<u>1,412,622,520</u>	<u>1,366,156,364</u>
Liabilities		
Due to broker for securities purchased	45,499,309	16,991,351
Total liabilities	<u>45,499,309</u>	<u>16,991,351</u>
Net assets available for benefits	<u>\$ 1,367,123,211</u>	<u>\$ 1,349,165,013</u>

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

Net appreciation (depreciation) of investments and interest and dividend income for the CTF for the years ended December 31, were as follows:

	2016	2015
Investment income:		
Net appreciation (depreciation) in fair value of investments		
U.S Government and agency obligations	\$ (3,766,686)	\$ (21,254,624)
Corporate and foreign bonds	35,911,551	(50,238,338)
Commingled funds	23,654,167	(4,112,680)
Mutual funds	7,813,752	(8,860,587)
Asset-backed and mortgage-backed securities	(966,515)	(1,643,207)
Common and preferred stocks	3,906	(27,924)
Other investments	(74,648)	157,709
	<u>62,575,527</u>	<u>(85,979,651)</u>
Interest and dividend income	46,324,497	53,857,242
Total investment income (loss)	<u>\$ 108,900,024</u>	<u>\$ (32,122,409)</u>

The following summarizes the classification of the underlying investments within the CTF by classification and method of valuation as of December 31, 2016 and 2015:

Assets at fair value as of December 31, 2016				
	Level 1	Level 2	Level 3	Total
Collective Trust Fund:				
Cash and cash equivalents	\$ —	\$ 10,181,634	\$ —	\$ 10,181,634
U.S. government and agency obligations	—	346,618,257	—	346,618,257
Corporate and foreign bonds	—	582,667,583	—	582,667,583
Registered mutual funds - equity specialty	31,682,915	—	—	31,682,915
Registered mutual funds - fixed income specialty	—	80,724,201	—	80,724,201
Asset backed and mortgage-backed securities	—	68,495,672	—	68,495,672
Other investments	—	3,333,158	8,714,971	12,048,129
Total investments in the fair value hierarchy	<u>\$ 31,682,915</u>	<u>\$ 1,092,020,505</u>	<u>\$ 8,714,971</u>	<u>\$ 1,132,418,391</u>
Investments measured at net asset value: ^(a)				
Commingled funds - equity specialty				231,040,603
Total investments measured at net asset value				<u>231,040,603</u>
Investments, at fair value				<u>1,363,458,994</u>

(a) In accordance with ASU 2015-07, certain investments that are measured at fair value using the NAV per share (or its equivalent) as a practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the summarized Master Trust Investments, at fair value earlier in this Note.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

	Assets at fair value as of December 31, 2015			
	Level 1	Level 2	Level 3	Total
Collective Trust Fund:				
Cash and cash equivalents	\$ —	\$ 14,801,535	\$ —	\$ 14,801,535
U.S. government and agency obligations	—	381,245,819	—	381,245,819
Corporate and foreign bonds	—	576,061,191	—	576,061,191
Registered mutual funds - equity specialty	29,683,515	—	—	29,683,515
Registered mutual funds - fixed income specialty	—	87,944,990	—	87,944,990
Asset backed and mortgage-backed securities	—	17,554,161	—	17,554,161
Other investments	—	147,027	12,095,379	12,242,406
Total assets at fair value	<u>\$ 29,683,515</u>	<u>\$ 1,077,754,723</u>	<u>\$ 12,095,379</u>	<u>\$ 1,119,533,617</u>
Investments measured at net asset value: ^(a)				
Commingled funds - equity specialty				221,684,878
Total investments measured at net asset value				<u>221,684,878</u>
Investments, at fair value				<u>1,341,218,495</u>

(a) In accordance with ASU 2015-07, certain investments that are measured at fair value using the NAV per share (or its equivalent) as a practical expedient have not been categorized in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the summarized Master Trust Investments, at fair value earlier in this

A summary of changes in the fair value of the CTF's level 3 assets was not presented as the level 3 investments were not deemed to be material to the assets held in the CTF.

5. Plan Termination

Ingersoll-Rand plc has the right under the Plan to discontinue its contributions at any time and to terminate the Plan subject to the provisions set forth in ERISA and the IRC. In the event the Plan is terminated, the net assets of the Plan will be allocated, as prescribed by ERISA and the IRC and its respective related regulations.

Certain benefits under the Plan are insured by the PBGC if the Plan is terminated. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivor's benefits. However, the PBGC does not guarantee benefits for all Plan participants and for all types of benefits and the amount of benefit protection is subject to certain limitations.

Whether all participants receive their benefits should the Plan be terminated will depend on the sufficiency, at that time, of the Plan's net assets to provide those benefits and may also depend on the level of benefits guaranteed by the PBGC.

6. Tax Status

The Internal Revenue Service has determined and informed the Company by a letter dated July 7, 2017, that the Plan and related trust are designed in accordance with the applicable sections of the Internal Revenue Code ("IRC") to be exempt from taxation. The plan administrator believes that the Plan is designed and is currently being operated in material compliance with the applicable requirements of the IRC.

GAAP requires plan management to evaluate tax positions taken by the Plan and recognize a tax liability (or asset) if the Plan has taken an uncertain position that more likely than not would not be sustained upon examination by the Internal Revenue Service. The plan administrator has analyzed the tax positions taken by the Plan and has concluded that as of December 31, 2016 and 2015, there are no uncertain positions taken or expected to be taken that would require recognition of a liability or disclosure in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax periods in progress.

Retirement Plan for Former Employees of Ingersoll-Rand Company
Notes to Financial Statements
December 31, 2016 and 2015

7. Transactions with Parties-in-interest

Through the CTF, certain plan investments are held by JPMorgan Chase Bank, N.A. JPMorgan Chase Bank, N.A. is the trustee as defined by the Plan and, therefore, these transactions qualify as party-in-interest transactions. These transactions are allowable party-in-interest transactions under Section 408(b)(8) of the ERISA regulations.

8. Risks and Uncertainties

Through the CTF, the Plan invests in various stocks, bonds, fixed-income and other investment securities. These securities are exposed to various risks, such as interest rate, market and credit risks. The Company's objective in managing its defined benefit plan assets is to ensure that all present and future benefit obligations are met as they come due. It seeks to achieve this goal while trying to mitigate volatility in plan funded status, contribution, and expense by better matching characteristics of the plan assets to that of the plan liabilities. The Company utilizes a dynamic approach to asset allocation whereby a plan's allocation to fixed income assets increases as the plan's funded status improves. Due to the level of risk associated with certain of the CTF's investments, and the level of uncertainty related to changes in the fair values of such investments, it is at least reasonably possible that changes in such risks in the near term would materially affect the Plan's investment balances, and amounts reported in the Statements of Net Assets Available for Benefits and the Statements of Changes in Net Assets Available for Benefits.

Plan contributions are made and the actuarial present value of accumulated plan benefits is reported based on certain assumptions pertaining to interest rates, inflation rates, and employee demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible that changes in these estimates and assumptions in the near term would be material to the financial statements.