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

2017

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A This return/report is for:
- [ ] a multiemployer plan
- [ ] a multiple-employer plan (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)
- [X] a single-employer plan
- [ ] a DFE (specify) ____

B This return/report is:
- [ ] the first return/report
- [ ] the final return/report
- [ ] an amended return/report
- [ ] a short plan year return/report (less than 12 months)

C If the plan is a collectively-bargained plan, check here. . . . . ▶ [ ]

D Check box if filing under:
- [X] Form 5558
- [ ] automatic extension
- [ ] the DFVC program
- [ ] special extension (enter description)

Part II Basic Plan Information—enter all requested information

1a Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

1b Three-digit plan number (PN) ▶ 001

1c Effective date of plan 10/01/1999

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)

RIO TINTO AMERICA INC.

4700 DAYBREAK PARKWAY
SOUTH JORDAN, UT 84009

2b Employer Identification Number (EIN)
11-3359689

2c Plan Sponsor's telephone number
801-204-2000

2d Business code (see instructions)
212200

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.	09/26/2018	JESSICA CROW
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
SIGN HERE			
	Signature of DFE	Date	Enter name of individual signing as DFE

3a Plan administrator's name and address ☐ Same as Plan Sponsor

RIO TINTO AMERICA INC. BENEFITS GOVERNANCE COMMITTEE

4700 DAYBREAK PARKWAY
SOUTH JORDAN, UT 84009

3b Administrator's EIN: 11-3359689

3c Administrator's telephone number: 801-204-2000

4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report:
a Sponsor's name
c Plan Name

4b EIN

4d PN

5 Total number of participants at the beginning of the plan year	**5**	4829
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	**6a(1)**	528
a(2) Total number of active participants at the end of the plan year	**6a(2)**	471
b Retired or separated participants receiving benefits	**6b**	689
c Other retired or separated participants entitled to future benefits	**6c**	1567
d Subtotal. Add lines **6a(2)**, **6b**, and **6c**	**6d**	2727
e Deceased participants whose beneficiaries are receiving or are entitled to receive benefits.	**6e**	115
f Total. Add lines **6d** and **6e**.	**6f**	2842
g Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	**6g**	
h Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	**6h**	1
7 Enter the total number of employers obligated to contribute to the plan (only multiemployer plans complete this item)	**7**	

8a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristics Codes in the instructions:

1A 1C 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)	☒	1	**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 2017 Form M-1 annual report. If the plan was not required to file the 2017 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 A (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Insurance 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.**

▶ Insurance companies are required to provide the information pursuant to ERISA section 103(a)(2).

OMB No. 1210-0110

2017

This Form is Open to Public Inspection

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

Part I Information Concerning Insurance Contract Coverage, Fees, and Commissions

Provide information for each contract on a separate Schedule A. Individual contracts grouped as a unit in Parts II and III can be reported on a single Schedule A.

1 Coverage Information:

(a) Name of insurance carrier
MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY

(b) EIN	**(c)** NAIC code	**(d)** Contract or identification number	**(e)** Approximate number of persons covered at end of policy or contract year	Policy or contract year	
				(f) From	**(g)** To
04-1590850	65935	TFO 45177	1936	01/01/2017	12/31/2017

2 Insurance fee and commission information. Enter the total fees and total commissions paid. List in line 3 the agents, brokers, and other persons in descending order of the amount paid.

(a) Total amount of commissions paid	**(b)** Total amount of fees paid

3 Persons receiving commissions and fees. (Complete as many entries as needed to report all persons).

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		
	(c) Amount	**(d)** Purpose	**(e)** Organization code

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		
	(c) Amount	**(d)** Purpose	**(e)** Organization code

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

(a) Name and address of the agent, broker, or other person to whom commissions or fees were paid

(b) Amount of sales and base commissions paid	Fees and other commissions paid		**(e)** Organization code
	(c) Amount	**(d)** Purpose	

Part II Investment and Annuity Contract Information

Where individual contracts are provided, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

4	Current value of plan's interest under this contract in the general account at year end	4	
5	Current value of plan's interest under this contract in separate accounts at year end	5	

6 Contracts With Allocated Funds:

a State the basis of premium rates ▶ NOT PROVIDED

b	Premiums paid to carrier	6b	74228889
c	Premiums due but unpaid at the end of the year	6c	-1391399
d	If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, enter amount. Specify nature of costs ▶	6d	

e Type of contract: (1) ☐ individual policies (2) ☐ group deferred annuity (3) ☒ other (specify) ▶ SINGLE PREMIUM GROUP ANNUITY

f If contract purchased, in whole or in part, to distribute benefits from a terminating plan, check here ▶ ☐

7 Contracts With Unallocated Funds (Do not include portions of these contracts maintained in separate accounts)

a Type of contract: (1) ☐ deposit administration (2) ☐ immediate participation guarantee (3) ☐ guaranteed investment (4) ☐ other ▶

b	Balance at the end of the previous year			7b	
c	Additions: (1) Contributions deposited during the year	7c(1)			
	(2) Dividends and credits	7c(2)			
	(3) Interest credited during the year	7c(3)			
	(4) Transferred from separate account	7c(4)			
	(5) Other (specify below) ▶	7c(5)			
	(6) Total additions			7c(6)	
d	Total of balance and additions (add lines **7b** and **7c(6)**).			7d	
e	Deductions:				
	(1) Disbursed from fund to pay benefits or purchase annuities during year	7e(1)			
	(2) Administration charge made by carrier	7e(2)			
	(3) Transferred to separate account	7e(3)			
	(4) Other (specify below) ▶	7e(4)			
	(5) Total deductions			7e(5)	
f	Balance at the end of the current year (subtract line **7e(5)** from line **7d**)			7f	0

Part III Welfare Benefit Contract Information

If more than one contract covers the same group of employees of the same employer(s) or members of the same employee organizations(s), the information may be combined for reporting purposes if such contracts are experience-rated as a unit. Where contracts cover individual employees, the entire group of such individual contracts with each carrier may be treated as a unit for purposes of this report.

8 Benefit and contract type (check all applicable boxes)

a ☐ Health (other than dental or vision) **b** ☐ Dental **c** ☐ Vision **d** ☐ Life insurance
e ☐ Temporary disability (accident and sickness) **f** ☐ Long-term disability **g** ☐ Supplemental unemployment **h** ☐ Prescription drug
i ☐ Stop loss (large deductible) **j** ☐ HMO contract **k** ☐ PPO contract **l** ☐ Indemnity contract
m ☐ Other (specify) ▶

9 Experience-rated contracts:				
a Premiums: (1) Amount received	**9a(1)**			
(2) Increase (decrease) in amount due but unpaid	**9a(2)**			
(3) Increase (decrease) in unearned premium reserve	**9a(3)**			
(4) Earned (**(1)** + **(2)** - **(3)**)			**9a(4)**	
b Benefit charges (1) Claims paid	**9b(1)**			
(2) Increase (decrease) in claim reserves	**9b(2)**			
(3) Incurred claims (add **(1)** and **(2)**)			**9b(3)**	
(4) Claims charged			**9b(4)**	
c Remainder of premium: (1) Retention charges (on an accrual basis) --				
(A) Commissions	**9c(1)(A)**			
(B) Administrative service or other fees	**9c(1)(B)**			
(C) Other specific acquisition costs	**9c(1)(C)**			
(D) Other expenses	**9c(1)(D)**			
(E) Taxes	**9c(1)(E)**			
(F) Charges for risks or other contingencies	**9c(1)(F)**			
(G) Other retention charges	**9c(1)(G)**			
(H) Total retention			**9c(1)(H)**	
(2) Dividends or retroactive rate refunds. (These amounts were ☐ paid in cash, or ☐ credited.)			**9c(2)**	
d Status of policyholder reserves at end of year: (1) Amount held to provide benefits after retirement			**9d(1)**	
(2) Claim reserves			**9d(2)**	
(3) Other reserves			**9d(3)**	
e Dividends or retroactive rate refunds due. (Do not include amount entered in line **9c(2)**.)			**9e**	
10 Nonexperience-rated contracts:				
a Total premiums or subscription charges paid to carrier			**10a**	
b If the carrier, service, or other organization incurred any specific costs in connection with the acquisition or retention of the contract or policy, other than reported in Part I, line 2 above, report amount.			**10b**	

Specify nature of costs.

Part IV Provision of Information

11 Did the insurance company fail to provide any information necessary to complete Schedule A? ☐ Yes ☒ No

12 If the answer to line 11 is "Yes," specify the information not provided. ▶

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

2017

This Form is Open to Public Inspection

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

▶ **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
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2017

2 Assets:

a Market value	**2a**	375408708
b Actuarial value	**2b**	379707142

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	2677	210729810	210729810
b For terminated vested participants	1624	79811817	79811817
c For active participants	528	68579962	70122149
d Total	4829	359121589	360663776

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**	5.84 %
6 Target normal cost	**6**	6608219

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

Signature of actuary — Date: 08/30/2018

TROY WARE — Type or print name of actuary

Most recent enrollment number: 17-07419

AON CONSULTING, INC. — Firm name

Telephone number (including area code): 303-639-4157

1900 SIXTEENTH STREET
SUITE 1000
DENVER, CO 80202

Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)		99332
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)		
9	Amount remaining (line 7 minus line 8)		99332
10	Interest on line 9 using prior year's actual return of 8.63 %		8572
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		31478302
	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 6.04%		1901289
	b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		
	c Total available at beginning of current plan year to add to prefunding balance		33379591
	d Portion of (c) to be added to prefunding balance		33379591
12	Other reductions in balances due to elections or deemed elections		1100000
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)		32387495

Part III Funding Percentages

14	Funding target attainment percentage	14	96.30%
15	Adjusted funding target attainment percentage	15	105.28%
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	98.64%
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
06/28/2018	44000000				
			Totals ► 18(b)	44000000	18(c)

19	Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
	a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	
	b Contributions made to avoid restrictions adjusted to valuation date	19b	
	c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	40437270

20 Quarterly contributions and liquidity shortfalls:

a Did the plan have a "funding shortfall" for the prior year? [X] Yes [ ] No

b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner? [X] 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:	2nd segment:	3rd segment:	
4.16%	5.72%	6.48%	☐ N/A, full yield curve used

b Applicable month (enter code)	**21b**	4
22 Weighted average retirement age	**22**	62

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**	
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)	**29**	
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	**30**	

Part VIII Minimum Required Contribution For Current Year

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

a Target normal cost (line 6)	**31a**	6608219
b Excess assets, if applicable, but not greater than line 31a	**31b**	0

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	13344129	2284627
b Waiver amortization installment		

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**	8892846

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement		7348133	7348133

36 Additional cash requirement (line 34 minus line 35)	**36**	1544713
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	**37**	40437270
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	**38a**	38892557
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	**38b**	7348133
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	**39**	
40 Unpaid minimum required contributions for all years	**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 C (Form 5500)	Service Provider Information	OMB No. 1210-0110
Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	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.**	**2017** **This Form is Open to Public Inspection.**

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

Part I Service Provider Information (see instructions)

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

1 Information on Persons Receiving Only Eligible Indirect Compensation

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

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

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

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

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

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

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

AON HEWITT

100 HALF DAY ROAD
LINCOLNSHIRE, IL 60069

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
11	NONE	237976	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

BUCK CONSULTANTS

1801 CENTURY PARK E 500
LOS ANGELES, CA 90067

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
13	NONE	165317	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

STATE STREET TRUST CO

30 ADELAIDE STREET EAST
TORONTO ONTARIO M5C 3G6 CA

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
13	NONE	72448	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

ANTON COLLINS MITCHELL LLP

303 E 17TH AVE 600
DENVER, CO 80203

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
10	NONE	26000	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

ALVAREZ & MARSAL HOLDINGS, LLC

56-2409465

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
16	NONE	16421	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

PAVILION ADVISORY GROUP

227 W MONROE ST. STE 2020
CHICAGO, IL 60606

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
50	NONE	9600	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

COMPENSATION & BENEFIT SOLUTIONS

46-1884510

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
16	NONE	9591	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

CONDUENT HR CONSULTING, LLC

81-2983623

(b) Service Code(s)	(c) Relationship to employer, employee organization, or person known to be a party-in-interest	(d) Enter direct compensation paid by the plan. If none, enter -0-.	(e) Did service provider receive indirect compensation? (sources other than plan or plan sponsor)	(f) Did indirect compensation include eligible indirect compensation, for which the plan received the required disclosures?	(g) Enter total indirect compensation received by service provider excluding eligible indirect compensation for which you answered "Yes" to element (f). If none, enter -0-.	(h) Did the service provider give you a formula instead of an amount or estimated amount?
50	NONE	81394	Yes [ ] No [X]	Yes [ ] No [ ]		Yes [ ] No [ ]

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

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

Part I Service Provider Information (continued)

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

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

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

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

Part II Service Providers Who Fail or Refuse to Provide Information

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

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

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

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

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

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

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

Part III Termination Information on Accountants and Enrolled Actuaries (see instructions)

(complete as many entries as needed)

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

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

Explanation:

SCHEDULE D (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

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

2017

This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan or DFE sponsor's name as shown on line 2a of Form 5500
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

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)

a Name of MTIA, CCT, PSA, or 103-12 IE: RIO TINTO AMERICA MASTER RET. TRUST

b Name of sponsor of entity listed in (a): RIO TINTO AMERICA INC.

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)
31-1464406-001	M	330626591

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

a Name of MTIA, CCT, PSA, or 103-12 IE:

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

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

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

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

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

a Plan name

b Name of plan sponsor	**c** EIN-PN

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)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

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.**

OMB No. 1210-0110

2017

This Form is Open to Public Inspection

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

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)	42100000	44000000
(2) Participant contributions	1b(2)		
(3) Other	1b(3)		1391399
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)	334022147	330626591
(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	376122147	376017990
	Liabilities			
g	Benefit claims payable	1g		
h	Operating payables	1h		
i	Acquisition indebtedness	1i		
j	Other liabilities	1j	54377	65835
k	Total liabilities (add all amounts in lines 1g through1j)	1k	54377	65835
	Net Assets			
l	Net assets (subtract line 1k from line 1f)	1l	376067770	375952155

Part II Income and Expense Statement

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

	Income		(a) Amount	(b) Total
a	**Contributions:**			
	(1) Received or receivable in cash from: **(A)** Employers	2a(1)(A)	44000000	
	(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)		44000000
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)		
	(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)		
	(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)		
	(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)		

		(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)		56053838
(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		100053838
Expenses			
e Benefit payment and payments to provide benefits:			
(1) Directly to participants or beneficiaries, including direct rollovers	2e(1)	24503489	
(2) To insurance carriers for the provision of benefits	2e(2)	72837490	
(3) Other	2e(3)		
(4) Total benefit payments. Add lines **2e(1)** through **(3)**	2e(4)		97340979
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)	314561	
(2) Contract administrator fees	2i(2)	320653	
(3) Investment advisory and management fees	2i(3)		
(4) Other	2i(4)	2193260	
(5) Total administrative expenses. Add lines **2i(1)** through **(4)**	2i(5)		2828474
j Total expenses. Add all **expense** amounts in column (b) and enter total	2j		100169453
Net Income and Reconciliation			
k Net income (loss). Subtract line **2j** from line **2d**	2k		-115615
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) [X] Disclaimer (4) [ ] Adverse

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

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

(1) Name: ANTON COLLINS MITCHELL LLP (2) EIN: 01-0724563

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:

		Yes	No	Amount
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.)	4a		X	
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.)	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		20000000
f	Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	4f		X	
g	Did the plan hold any assets whose current value was neither readily determinable on an established market nor set by an independent third party appraiser?	4g		X	
h	Did the plan receive any noncash contributions whose value was neither readily determinable on an established market nor set by an independent third party appraiser?	4h		X	
i	Did the plan have assets held for investment? (Attach schedule(s) of assets if "Yes" is checked, and see instructions for format requirements.)	4i	X		
j	Were any plan transactions or series of transactions in excess of 5% of the current value of plan assets? (Attach schedule of transactions if "Yes" is checked, and see instructions for format requirements.)	4j		X	
k	Were all the plan assets either distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?	4k		X	
l	Has the plan failed to provide any benefit when due under the plan?	4l		X	
m	If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	4m		X	
n	If 4m was answered "Yes," check the "Yes" box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3.	4n			

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

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

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

5c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (See ERISA section 4021.)? ..... ☒ Yes ☐ No ☐ Not determined
If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4076806. (See instructions.)

SCHEDULE R (Form 5500)

Department of the Treasury
Internal Revenue Service

Department of Labor
Employee Benefits Security Administration

Pension Benefit Guaranty Corporation

Retirement Plan Information

This schedule is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6058(a) of the Internal Revenue Code (the Code).

▶ **File as an attachment to Form 5500.**

OMB No. 1210-0110

2017

This Form is Open to Public Inspection.

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

A Name of plan
RIO TINTO AMERICA INC. RETIREMENT PLAN

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500
RIO TINTO AMERICA INC.

D Employer Identification Number (EIN)
11-3359689

Part I Distributions

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

1 Total value of distributions paid in property other than in cash or the forms of property specified in the instructions **1**

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): 04-3581074

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** 14

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

4 Is the plan administrator making an election under Code section 412(d)(2) or ERISA section 302(d)(2)? ..... ☐ **Yes** ☐ **No** ☒ **N/A**

If the plan is a defined benefit plan, go to line 8.

5 If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions and enter the date of the ruling letter granting the waiver. **Date:** Month _____ Day _____ Year _____

If you completed line 5, complete lines 3, 9, and 10 of Schedule MB and do not complete the remainder of this schedule.

6 **a** Enter the minimum required contribution for this plan year (include any prior year accumulated funding deficiency not waived) **6a**

b Enter the amount contributed by the employer to the plan for this plan year **6b**

c Subtract the amount in line 6b from the amount in line 6a. Enter the result (enter a minus sign to the left of a negative amount) **6c**

If you completed line 6c, skip lines 8 and 9.

7 Will the minimum funding amount reported on line 6c be met by the funding deadline? ..... ☐ **Yes** ☐ **No** ☐ **N/A**

8 If a change in actuarial cost method was made for this plan year pursuant to a revenue procedure or other authority providing automatic approval for the change or a class ruling letter, does the plan sponsor or plan administrator agree with the change? ..... ☐ **Yes** ☐ **No** ☒ **N/A**

Part III Amendments

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**

Part IV ESOPs (see instructions). If this is not a plan described under section 409(a) or 4975(e)(7) of the Internal Revenue Code, skip this Part.

10 Were unallocated employer securities or proceeds from the sale of unallocated securities used to repay any exempt loan? ..... ☐ **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**

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): _____

---

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

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: 20.2 % Investment-Grade Debt: 59.5 % High-Yield Debt: 2.1 % Real Estate: 8.8 % Other: 9.4 %

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):

Rio Tinto America Inc. Retirement Plan

Financial Report
December 31, 2017

Rio Tinto America Inc. Retirement Plan

Contents

Independent Auditor's Report	1-2
Financial Statements	
Statements of net assets available for benefits	3
Statements of changes in net assets available for benefits	4
Notes to financial statements	5-21

ACM
Anton Collins Mitchell LLP
Accountants & Consultants

Independent Auditor's Report

To the Rio Tinto America Inc. Benefits Governance Committee of
Rio Tinto America Inc. Retirement Plan
South Jordan, Utah

Report on the Financial Statements

We were engaged to audit the accompanying financial statements of Rio Tinto America Inc. Retirement Plan (the "Plan"), which comprise the statements of net assets available for benefits as of December 31, 2017 and 2016, and the related statements of changes in net assets available for benefits for the years then ended, and the related notes to the financial statements.

Management's Responsibility for the Financial Statements

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

Auditor's 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 Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974, 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 State Street Bank and Trust Company, the trustee, except for comparing such information with the related information included in the financial statements. We have been informed by the plan administrator that the trustee holds the Plan's investment assets and executes investment transactions. The plan administrator has obtained certifications from the trustee as of and for the years ended December 31, 2017 and 2016, that the information provided to the plan administrator by the trustee is complete and accurate.

303 East 17th Avenue, Suite 600
Denver, Colorado 80203
303.830.1120 · Fax 303.830.8130 · www.acmllp.com

Anton Collins Mitchell LLP
Accountants & Consultants

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 on the financial statements. Accordingly, we do not express an opinion on these financial statements.

Emphasis of Matter – Group Annuity Purchase

As discussed in Note 1 to the financial statements, the governing body of the Plan approved a group annuity purchase for certain individuals, which occurred during the year ended December 31, 2017. Our opinion is not modified with respect to this matter.

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, is presented in compliance with the Department of Labor's Rules and Regulations for Reporting and Disclosure under the Employee Retirement Income Security Act of 1974.

Anton Collins Mitchell LLP

Denver, Colorado
September 20, 2018

Rio Tinto America Inc. Retirement Plan

Statements of Net Assets Available for Benefits
December 31, 2017 and 2016

	2017	2016
Investments, at fair value (Notes 4, 5 and 6):		
Plan interest in Rio Tinto America Master Retirement Trust	**$ 330,626,591**	$ 334,022,147
Employer contributions receivable	**44,000,000**	42,100,000
Annuity purchase receivable (Note 1)	**1,391,399**	-
Total assets	**376,017,990**	376,122,147
Accrued expenses	**(65,835)**	(54,377)
Net assets available for benefits	**$ 375,952,155**	$ 376,067,770

See Independent Auditor's Report and Notes to Financial Statements.

Rio Tinto America Inc. Retirement Plan

Statements of Changes in Net Assets Available for Benefits
Years Ended December 31, 2017 and 2016

	2017	2016
Additions to (deductions from):		
Investment results (Notes 4 and 5):		
Plan interest in Rio Tinto America Master Retirement Trust investment income	**$ 56,053,838**	$ 27,665,136
Employer contributions	**44,000,000**	42,100,000
Total additions	**100,053,838**	69,765,136
Deductions:		
Benefits paid to participants and beneficiaries	**(24,503,489)**	(24,755,912)
Administrative expenses	**(2,828,474)**	(3,233,352)
Total deductions	**(27,331,963)**	(27,989,264)
Net increase, prior to annuity purchase	**72,721,875**	41,775,872
Annuity purchase (Note 1)	**(72,837,490)**	-
Net assets available for benefits:		
Beginning of the year	**376,067,770**	334,291,898
End of the year	**$ 375,952,155**	$ 376,067,770

See Independent Auditor's Report and Notes to Financial Statements.

Note 1. Description of the Plan

The following description of Rio Tinto America Inc. Retirement Plan (the "Plan") provides only general information. Participants should refer to the Plan document for a more complete description of the Plan's provisions.

General: The Plan was established by Rio Tinto America Inc. (the "Company"). The Plan is a noncontributory defined benefit pension plan covering salaried and non-represented hourly paid employees of the Company, subsidiaries and affiliates of Rio Tinto America Holdings Inc. designated in Appendix A of the Plan document as participating companies (the "Participating Companies" and together with the Company, the "Employer"), and Affiliated Employers (as defined in the Plan document). The Company and the Participating Companies are subsidiaries of Rio Tinto America Holdings Inc., which is an indirect, wholly-owned subsidiary of Rio Tinto plc (the "Parent"). The Plan is intended to be a qualified retirement plan under the Internal Revenue Code ("IRC") and is subject to the provisions of Employee Retirement Income Security Act of 1974 ("ERISA"), as amended. The Company has appointed State Street Corporation to be the third party administrator of the plan. The Plan is administered by the Rio Tinto America Inc. Benefits Governance Committee (the "Plan Administrator").

Effective April 1, 2007, the Plan was closed to new participants (except as noted below). Therefore, employees who are hired or rehired by the Employer or Affiliated Employers (who otherwise would have been eligible under the Plan) after March 31, 2007, are not eligible for participation in the Plan.

Effective January 1, 2016, the Plan was amended to clarify the definition of Employee.

The Plan was amended, effective October 1, 2017, to add language with respect to the Company's parental leave policy.

The Plan participates in the Rio Tinto America Master Retirement Trust ("Master Trust"), which was created to hold the qualified defined benefit investment assets of the Plan and other plans sponsored by the Parent and its affiliates. The Company has appointed State Street Bank and Trust Company ("Trustee"), to be the trustee of the Master Trust and to invest and manage assets of the related plans.

2017 Annuity Buy Out: Effective October 31, 2017, the Plan entered into, and was amended to reflect, a group annuity contract purchase ("2017 Annuity Buy Out") with Massachusetts Mutual Life Insurance Company ("MassMutual"), under which the entire benefit rights of 1936 annuitized individuals (with a monthly benefit payment under $700) are fully guaranteed by MassMutual, legally enforceable by the annuitized individuals against MassMutual, and guaranteed by MassMutual by way of an irrevocable commitment to pay benefit liabilities to the annuitized individuals. A reconciliation of the final premium due to MassMutual related to this contract was performed in May 2018, which resulted in a reduction of the initial premium of $1,391,399 (recorded as a Plan receivable at December 31, 2017), for an adjusted premium of $72,837,490. Funds under this contract have been allocated and applied to purchase these annuities and are excluded from the Plan's interest in the Master Trust as of December 31, 2017. See Note 3 for estimated reduction in the accumulated benefit obligation related to the 2017 Annuity Buy Out.

Pension benefits: Participants are eligible for monthly benefit payments upon reaching normal retirement age (age 65). Pension payments are calculated using the final average monthly earnings based upon the highest 36 consecutive months (out of the last 120 months of employment with the Employer or Affiliated Employers), which produce the highest aggregate eligible compensation. The amount of the monthly benefit is based upon the participant's final average earnings and eligible benefit service.

Note 1. Description of the Plan (Continued)

The normal forms of retirement benefits available under the Plan are a monthly life annuity for a single participant or, for a married participant, a 50 percent qualified joint and survivor annuity. Participants will receive a lump-sum distribution in the event the actuarial present value of the participant's entire vested benefit is $5,000 or less. A reduced early retirement benefit is available after attainment of age 55 and completion of five years of vesting service.

A participant vests fully in retirement benefits after performing five years of vesting service, upon reaching normal retirement age while still employed by the Participating Employers, or termination of the Plan.

Termination of the Plan: Although it has not expressed any intention to do so, the Company 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 the ERISA.

In the event the Plan terminates, the net assets of the Plan will be allocated, as prescribed by ERISA and its related regulations, generally to provide the following benefits in the order indicated:

a. Annuity benefits which former participants or their beneficiaries have been receiving for at least three years, or employees eligible to retire for that three-year period would have been receiving if they had retired with benefits in the normal form of annuity under the Plan. The priority amount is limited to the lowest benefit which was payable (or would have been payable) during those three years. The amount is further limited to the lowest benefit which would be payable under the Plan provisions in effect at any time during the five years preceding Plan termination.

b. Other vested benefits insured by the Pension Benefit Guaranty Corporation ("PBGC") (a U.S. government agency) up to the applicable limitations (discussed below).

c. All other vested benefits (vested benefits not insured by the PBGC).

d. All non-vested benefits.

Certain benefits under the Plan are insured by the PBGC if the Plan terminates. Generally, the PBGC guarantees most vested normal age retirement benefits, early retirement benefits, and certain disability and survivors' pensions. However, the PBGC does not guarantee all types of benefits under the Plan, and the amount of benefit protection is subject to certain limitations. Vested benefits under the Plan are guaranteed at the level in effect on the date of the Plan's termination.

Whether all participants receive their benefits should the Plan terminate at some future time will depend on the sufficiency, at that time, of the Plan's net assets to provide for accumulated benefit obligations and may also depend on the financial condition of the Company and the level of benefits guaranteed by the PBGC.

Note 2. Summary of Significant Accounting Policies

Basis of accounting: The accompanying financial statements are prepared on the accrual basis of accounting.

Note 2. Summary of Significant Accounting Policies (Continued)

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

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 compensation and demographics, all of which are subject to change. Due to uncertainties inherent in the estimations and assumptions process, it is at least reasonably possible changes in these estimates and assumptions in the near-term could be material to the financial statements.

Risks and uncertainties: The Master Trust invests in various investment securities. Investment securities are exposed to various risks, such as interest rate, market, currency exchange rate, and credit risks. Due to the level of risk associated with certain investment securities, it is reasonably possible that changes in the values of investment securities will occur in the near-term and such changes could materially affect the amounts reported in the 2017 statement of net assets available for benefits.

The Master Trust invests in securities with contractual cash flows, such as credit default swaps, interest rate swaps and options. The value, liquidity and related income of these securities are sensitive to changes in economic conditions, delinquencies and/or defaults, and may be adversely affected by a shift in the market's perception of the issuers and changes in interest rates.

Investment valuation and income recognition: Investments are reported at fair value. Fair value is the price which would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Rio Tinto America Inc. Pension Investment Committee ("Investment Committee") determines the Plan's valuation policies, utilizing information provided by the investment advisors and Trustee. See Note 6 for a discussion of fair value measurements.

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

Valuation of investment in Master Trust: The Master Trust is a multiple-plan trust, ownership of which is divided among the plans based on allocated units of participation. Each participation unit has a value equal to the total fair value of the Master Trust's net assets divided by the total participation units outstanding.

The Plan has an undivided interest in the Master Trust's underlying investments. The Plan's investment in the Master Trust is stated at fair value. The Plan's interest in the Master Trust is based on the beginning-of-year value of the Plan's interest in the Master Trust, plus actual contributions and allocated investment income (loss), less actual distributions and actual and allocated investment-related expenses. The net investment income (loss) and investment-related expenses attributable to the Master Trust, which are not plan-specific, are allocated by the Trustee to the Plan based on the Plan's pro rata share of each of the underlying assets of the Master Trust on a monthly basis. The Plan presents in the statements of changes in net assets available for benefits its interest in the net investment income or loss of the Master Trust, which consists of the realized gains or losses, unrealized appreciation or depreciation, interest, dividends of the Master Trust's investments, and allocated expenses.

Note 2. Summary of Significant Accounting Policies (Continued)

Funding policy: The Company contributes to the Plan at such times and in such amounts as considered necessary so contributions are sufficient to provide benefits as actuarially calculated under the terms of the Plan. The Company's current funding policy is to meet the minimum funding standards prescribed by law.

Contributions to the Plan are designed to fund at least the minimum required contributions as specified by ERISA and determined under IRC section 430(a). The minimum contribution is determined as of the beginning of the plan year, and all contributions are discounted at the effective interest rate from the date funded to the beginning of the plan year. The Company may elect to use all or a portion of any funding standard carryover balance or prefunding balance to offset the minimum required contribution for a plan year depending on the Plan's funded status.

The Plan is "not-at-risk" for 2017, thus allowing the use of a more favorable interest rate corridor in determining the minimum required contribution. Adjustment to the statutory interest rates specified under IRC section 430 were first introduced by the Moving Ahead for Progress in the 21st Century Act ("MAP-21") and subsequently modified by the Highway and Transportation Funding Act of 2014 ("HATFA").

The Plan has currently met all minimum funding requirements. Under the law, the minimum required contribution for the 2017 and 2016 plan years, respectively, was $8,892,846 and $7,602,174. The minimum required contribution was satisfied in each plan year with a combination of cash contribution and application of prefunding balances. The total cash contributions were $44,000,000 and $42,100,000 for the 2017 and 2016 plan years, respectively.

Benefit restrictions under IRC section 436 depend on the Plan's Adjusted Funding Target Attainment Percentage ("AFTAP"). For 2017, the Plan's AFTAP was 105.28 percent. As this exceeds 90 percent and the plan sponsor is not in bankruptcy there are no restrictions on amendments increasing benefits, accelerated payments, or future accruals.

Payment of benefits: Benefits are recorded when paid by the Plan.

Administrative expenses: The Company pays a portion of the costs and expenses incurred in administering the Plan, with the Plan paying the remaining costs and expenses. The Company provides accounting and other services for the Plan at no cost to the Plan. Expenses paid directly by the Company are excluded from these financial statements, unless reimbursed by the Plan.

Tax status: The Internal Revenue Service has determined and informed the Company by a letter dated July 16, 2015, the Plan and the Master Trust are designed in accordance with the applicable requirements of the IRC. The Plan has been amended since receiving the determination letter; however, the Plan Administrator believes the Plan is designed and is currently being operated in compliance with the applicable requirements of the IRC, and therefore believes that the Plan and the Master Trust are tax-exempt.

The Plan Administrator has evaluated the Plan's tax positions and concluded the Plan had taken no uncertain tax positions which would require adjustment to the financial statements or disclosures. Therefore, no provision or liability for income taxes has been included in the financial statements. The Plan is subject to routine audits by taxing jurisdictions; however, there are currently no audits for any tax years in progress.

Note 2. Summary of Significant Accounting Policies (Continued)

Subsequent events: The Plan Administrator evaluated subsequent events and transactions through September 20, 2018, the date which the financial statements were available to be issued. No events, other than those noted below, require recognition or disclosure.

The Plan was amended, effective April 1, 2018, to change certain actuarial factors.

Note 3. Actuarial Present Value of Accumulated Plan Benefits

Accumulated plan benefits are those future periodic payments, including lump-sum distributions, attributable under the Plan's provisions to the service employees have rendered. Accumulated plan benefits include benefits expected to be paid to (a) retired or terminated employees with vested rights or their beneficiaries, (b) beneficiaries of employees who have died, and (c) present employees or their beneficiaries. Benefits payable under all circumstances—retirement, death, disability and termination of employment—are included to the extent they are deemed attributable to employee service rendered prior to the valuation date.

The actuarial present value of accumulated plan benefits was calculated by consulting actuaries and is the amount that results from applying actuarial assumptions to adjust the accumulated plan benefits to reflect the time value of money (through discounts for interest) and the probability of payment (by means of decrements such as for death, disability, withdrawal or retirement) between the valuation date and the expected future payment dates.

The actuarial valuation was done by using the beginning-of-the-year method. Therefore, the accumulated plan benefits as of December 31, 2016, are presented from information provided by the actuary as of January 1, 2017. There has been no significant change in the Plan's provisions or coverage from December 31, 2016, to January 1, 2017.

The more significant assumptions underlying the actuarial computations as of December 31, 2016, are as follows:

Investment return	5.90% per annum
Mortality table used	RP2014 (2006 base rates) white collar table with generational mortality projected by Scale MP2017
Retirement rates and average retirement age	Rates increasing from 5% to 100% between ages 55 and 70, and an average retirement age of 62 for active and terminated vested participants
Withdrawal rates	Rates for pre-retirement ages that vary by age and employee group.

The foregoing actuarial assumptions are based on the presumption 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.

Note 3. Actuarial Present Value of Accumulated Plan Benefits (Continued)

The actuarial present value of accumulated plan benefits as of December 31, 2016, is summarized as follows:

Actuarial present value of accumulated plan benefits:	
Vested benefits:	
Participants currently receiving benefits	$ 221,767,529
Other participants	156,500,903
	378,268,432
Nonvested benefits	1,573,300
Total actuarial present value of accumulated plan benefits, at December 31, 2016	$ 379,841,732

Below is a summary of significant changes in the actuarial present value of accumulated plan benefits for the year ended December 31, 2016:

Actuarial present value of accumulated plan benefits, at beginning of year	$ 340,172,715
Increase (decrease) during the year attributable to:	
Benefits paid	(24,755,912)
Interest accumulation	21,975,693
Change in actuarial assumptions*	38,974,836
Benefits accumulated and experience gains and losses	3,474,400
Net change	39,669,017
Actuarial present value of accumulated plan benefits, at end of year	$ 379,841,732

*The most significant changes in actuarial assumptions were a change in the Investment Return from 6.70 percent to 5.90 percent; a change in the mortality assumption from the RP2014 mortality table with generational mortality projected by Scale MP2015, weighted by 110% for males and 125% for females to the RP2014 (2006 base rates) white collar table with generational mortality projected by MP2017; and a change in mortality assumption for lump sum payments from the 2016 plan year IRC section 417(e)(3) mortality table to the 2017 plan year IRC section 417(e)(3) mortality table.

The actuarial present value of accumulated plan benefits at December 31, 2017 will be reduced by approximately $65,300,000 for the participants included in the 2017 Annuity Buy Out (discussed in Note 1).

Note 4. Information Certified or Provided by the Trustee

The following is a summary of the Plan's asset information as of December 31, 2017 and 2016, and for the years then ended, included throughout the Plan's financial statements, which were prepared by or derived from information provided by the Trustee and furnished to the Plan Administrator. The Plan Administrator has obtained certifications from the Trustee that the information provided to the Plan Administrator by the Trustee related to the following assets is correct and complete to the best of their knowledge and belief.

Accordingly, as permitted by 29 CFR 2520.103-8 of the Department of Labor's ("DOL") Rules and Regulations for Reporting and Disclosure under ERISA, the Plan Administrator instructed the Plan's independent auditors not to perform any auditing procedures with respect to information which appears throughout the financial statements related to the following assets:

	December 31	
	2017	2016
Investments:		
Plan's interest in Rio Tinto America Master Retirement Trust	$ 329,255,181	$ 332,769,691

The Trustee also certified to the best of their knowledge and belief the correctness and completeness of investment results of the Plan's interest in the Master Trust for the years ended December 31, 2017 and 2016, as follows:

	Years Ended	
	2017	2016
Investment results:		
Plan interest in Rio Tinto America Master Retirement Trust investment income	$ 55,934,884	$ 27,516,050

The Plan's interest in and the investment results of the Master Trust as presented above do not reflect certain adjustments for an increase in the value of partnerships/joint ventures/real estate investments and certain accrued Master Trust expenses.

Note 5. Interest in Master Trust

The Plan participates in the Master Trust as permitted by the Plan document and Master Trust agreement. The Plan has an undivided interest of 19.6 percent and 20.4 percent in the net assets of the Master Trust as of December 31, 2017 and 2016, respectively.

The Master Trust financial information disclosed below and in Note 6 represents 100 percent of the Master Trust net assets and the related changes in net assets in which the Plan has an undivided interest as of and for the years ended December 31, 2017 and 2016.

Note 5. Interest in Master Trust (Continued)

Master Trust: The net assets of the Master Trust as of December 31, 2017 and 2016, are as follows:

	Unaudited			
	December 31, 2017		December 31, 2016	
	Master Trust	Plan	Master Trust	Plan
Assets:				
Cash	$ 361,966	$ 70,945	$ 1,816,315	$ 370,528
Investments, fair value:				
Fixed Income Investments:				
Commingled funds	153,975,610	30,179,220	69,102,968	14,097,005
Corporate bonds	644,064,824	126,236,706	447,806,602	91,352,547
Foreign government securities	94,219,742	18,467,069	78,411,122	15,995,869
U.S. government securities	165,872,304	32,510,972	111,698,760	22,786,547
Mortgage backed securities	-	-	523,243	106,742
Derivatives	2,097,477	411,105	656,506	133,927
Common/Collective Trusts	254,589,382	49,899,519	469,197,221	95,716,233
Common stocks	82,724,953	16,214,091	152,369,444	31,083,367
Partnerships/Joint Ventures	206,326,759	40,440,045	211,071,393	43,058,564
Real estate commingled fund	71,827,526	14,078,195	69,811,744	14,241,596
Interest-bearing cash and cash equivalents	46,370,308	9,088,580	59,108,969	12,058,230
Loans secured by Mortgages	8,458,425	1,657,851	18,970,431	3,869,968
Preferred Stock	98,856	19,376	297,505	60,691
Cash Collateral	5,969,000	1,169,924	6,430,000	1,311,720
Total Investments, fair value	1,736,595,166	340,372,653	1,695,455,908	345,873,006
Receivables:				
Interest Receivable	9,658,720	1,893,109	7,619,769	1,554,433
Due from broker	7,742,967	1,517,622	21,982,706	4,484,472
Dividends Receivable	40,198	7,879	94,951	19,370
Other Receivables	1,295,403	745,596	1,374,325	(9,801)
Total Receivables	18,737,288	4,164,206	31,071,751	6,048,474
Total assets	1,755,694,420	344,607,804	1,728,343,974	352,292,008
Liabilities:				
Due to broker	(69,889,408)	(13,698,324)	(88,081,873)	(17,968,702)
Accrued investment-related expenses	(1,398,024)	(274,013)	(1,367,215)	(278,912)
Other payables	(45,286)	(8,876)	(109,055)	(22,247)
Total Liabilities	(71,332,718)	(13,981,213)	(89,558,143)	(18,269,861)
Net assets	$1,684,361,702	$ 330,626,591	$1,638,785,831	$ 334,022,147

Note 5. Interest in Master Trust (Continued)

The changes in the net assets and investment results of the Master Trust for the years ended December 31, 2017 and 2016, are summarized as follows:

	Unaudited			
	December 31, 2017		December 31, 2016	
	Master Trust	Plan	Master Trust	Plan
Investment results:				
Net appreciation	$ 220,336,897	$ 45,349,695	$ 89,386,927	$ 19,628,049
Interest	37,652,218	7,757,872	29,848,629	6,324,729
Dividends	10,981,838	2,216,778	12,106,710	2,533,449
Currency gain/loss and other	8,159,307	1,685,416	346,763	73,840
	277,130,260	57,009,761	131,689,029	28,560,067
Investment-related expenses	(4,708,415)	(955,923)	(4,292,466)	(894,931)
Net investment results	272,421,845	56,053,838	127,396,563	27,665,136
Net purchases (redemptions)	22,743,274	14,779,495	(32,608,768)	(26,939,196)
Annuity buy out transfers out*	(249,589,248)	(74,228,889)	-	-
Net change in net assets	45,575,871	(3,395,556)	94,787,795	725,940
Net assets:				
Beginning of year	1,638,785,831	334,022,147	1,543,998,036	333,296,207
End of year	$ 1,684,361,702	$ 330,626,591	$ 1,638,785,831	$ 334,022,147

*Related to the Rio Tinto America Retirement Plan and the Rio Tinto Alcan Pension Plan (U.S.) only

Note 6. Fair Value Measurements

Accounting guidance provides the framework for measuring fair value. That framework provides a fair value hierarchy which prioritizes the inputs to valuation techniques used to measure fair value. The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). The three levels of the fair value hierarchy are described below:

Level 1: Inputs to the valuation methodology are unadjusted quoted prices for identical assets or liabilities in active markets that the Plan has the ability to access.

Level 2: Inputs to the valuation methodology include quoted market prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities in inactive markets; inputs other than quoted prices that are observable for the asset or liability; and inputs that are derived principally from or corroborated by observable market data by correlation or other means. If the asset or liability has a specified (contractual) term, the Level 2 input must be observable for substantially the full term of the asset or liability.

Note 6. Fair Value Measurements (Continued)

Level 3: Inputs to the valuation methodology are unobservable and significant to the fair value measurement.

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 maximize the use of relevant observable inputs and minimize the use of unobservable inputs.

Following is a description of the valuation methodologies used for assets within the Master Trust measured at fair value. There have been no significant changes in the methodologies used at December 31, 2017 and 2016.

Fixed-income securities: Fixed-income securities consist of U.S. and foreign government securities, mortgage backed securities, options, corporate bonds and other obligations. These securities are valued based on pricing matrices or models from pricing vendors used by the Trustee. Commingled funds are valued based on the net asset value ("NAV") of units held at year-end as provided by the fund administrator.

Common collective trusts: The common collective trusts are valued based on the NAV of units held at year-end as provided by the fund administrator. Generally, under ordinary market conditions, all common collective trust positions provide daily market liquidity to the Master Trust. Certain Master Trust-directed withdrawals may be subject to market value adjustments calculated in accordance with the provisions of the investment contracts.

Common and preferred stocks: Common and preferred stocks are valued based on the last sales price on the primary exchange.

Partnerships/joint ventures/real estate: Partnerships/joint ventures/real estate are valued based on the estimated fair value of the participation owned by the Master Trust as determined by the general partner or investment manager of the respective partnership. The NAV of the partnerships/joint ventures/real estate is based on the fair value of the underlying investments. The valuation inputs are derived primarily from audited financial statements and other financial data. Partnerships/joint ventures/real estate include 15 private equity funds which are comprised of limited partnerships that invest in private equity, both domestically and internationally. Certain of these investments are considered illiquid and are meant to be held for the life of the funds but, if necessary, sales can be arranged through the secondary market. Distributions are received through the liquidation of the underlying assets of the funds. It is estimated that the underlying assets will be liquidated over the next several years, but no later than 13 years. Unfunded commitments of the Master Trust as of December 31, 2017 and 2016 approximate $84 million and $67 million, respectively, for these 15 funds.

Partnerships/joint ventures/real estate also include six investments in domestic and international real estate fund limited partnerships and one commingled real estate fund. The fair value of the limited partnerships is estimated using the NAV of the Master Trust's ownership interest in partners' capital. The valuation inputs of these investments are derived from third-party appraisals. Certain of these investments are considered illiquid, but sales can be arranged on the secondary market. Distributions from each fund are received as income is generated through the investments and as the underlying assets of the funds are liquidated. It is estimated that the underlying assets will be liquidated over the next several years, but no later than 12 years. Unfunded commitments of the Master Trust as of December 31, 2017 and 2016 approximate $43 million and $62 million, respectively, for these six investments. The commingled real estate fund is valued based on the NAV of units held at year-end as provided by the fund manager.

Note 6. Fair Value Measurements (Continued)

Interest-bearing cash and cash equivalents: Interest-bearing cash is valued at cost plus accrued income, which approximates fair value measured by similar assets in active markets.

Loans secured by mortgages: Loans secured by mortgages are valued on the basis of their principal and interest payments discounted at prevailing interest rates for similar investments.

Derivatives and cash collateral: Credit default swaps, interest rate swaps, and other derivatives are valued based on pricing matrices or models from pricing vendors used by the Trustee. See Note 8 for additional disclosures.

The following tables set forth by level, within the fair value hierarchy, the Master Trust's fair value measurements as of December 31, 2017 and 2016:

	Assets at Fair Value as of December 31, 2017			
	Level 1	Level 2	Level 3	Total
Common stocks	$ 82,724,953	$ -	$ -	$ 82,724,953
Partnerships/joint ventures	-	-	206,326,759	206,326,759
Real estate commingled fund	-	-	71,827,526	71,827,526
Interest-bearing cash and cash equivalents	-	46,370,308	-	46,370,308
Fixed-income investments:				
Corporate bonds	-	644,064,824	-	644,064,824
Foreign government securities	-	94,219,742	-	94,219,742
Derivatives	-	2,097,477	-	2,097,477
U.S. government securities	-	165,872,304	-	165,872,304
Loans secured by mortgages	-	8,458,425	-	8,458,425
Preferred stocks	-	98,856	-	98,856
Cash collateral	-	5,969,000	-	5,969,000
Total assets in the fair value hierarchy	$ 82,724,953	$ 967,150,936	$ 278,154,285	$ 1,328,030,174
Investments measured at NAV as a practical expedient (a):				
Fixed-income investments: Commingled funds				$ 153,975,610
Common collective trusts				254,589,382
Total investments measured at NAV as a practical expedient				408,564,992
Investments at fair value				$ 1,736,595,166

Note 6. Fair Value Measurements (Continued)

	Assets at Fair Value as of December 31, 2016			
	Level 1	Level 2	Level 3	Total
Common stocks	$ 152,369,444	$ -	$ -	$ 152,369,444
Partnerships/joint ventures	-	-	211,071,393	211,071,393
Real estate commingled fund	-	-	69,811,744	69,811,744
Interest-bearing cash and cash equivalents	-	59,108,969	-	59,108,969
Fixed-income investments:				
Corporate bonds	-	447,806,602	-	447,806,602
Foreign government securities	-	78,411,122	-	78,411,122
Mortgage backed securities	-	523,243	-	523,243
Derivatives	-	656,506	-	656,506
U.S. government securities	-	111,698,760	-	111,698,760
Loans secured by mortgages	-	18,970,431	-	18,970,431
Preferred stocks	-	297,505	-	297,505
Cash collateral	-	6,430,000	-	6,430,000
Total assets in the fair value hierarchy	$ 152,369,444	$ 723,903,138	$ 280,883,137	$ 1,157,155,719

Investments measured at NAV as a practical expedient (a):	
Fixed-income investments: Commingled funds	$ 69,102,968
Common collective trusts	469,197,221
Total investments measured at NAV as a practical expedient	538,300,189
Investments at fair value	$ 1,695,455,908

(a) In accordance with Subtopic 820-10, certain investments that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been classified 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 in the statements of net assets available for benefits.

The following table sets forth a summary of changes in the fair value of the Master Trust's Level 3 assets for the years ended December 31, 2017 and 2016:

	Level 3 Assets Partnerships/Joint Ventures/Real Estate	
	2017	2016
Balance, beginning of year	$ 280,883,137	$ 246,438,354
Realized gains	3,403,017	8,912,617
Unrealized gains relating to instruments still held at reporting date	7,951,552	14,105,372
Sales	(162,681,074)	(326,837,757)
Purchases	148,597,653	338,264,551
Balance, end of year	$ 278,154,285	$ 280,883,137

Note 6. Fair Value Measurements (Continued)

The methods described above may produce a fair value calculation that may not be indicative of net realizable value or reflective of future fair values. Furthermore, while the Master Trust 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 availability of observable market data is monitored to assess the appropriate classification of financial instruments within the fair value hierarchy. Changes in economic conditions or valuation techniques may require the transfer of investments from one fair value level to another. In such instances, the transfer is reported at the beginning of the reporting period. The Master Trust evaluates the significance of transfers between levels based upon the nature of the financial instrument and size of the transfer relative to total net assets. For the years ended December 31, 2017 and 2016, there were no transfers in or out of Levels 1, 2 or 3.

The Master Trust follows guidance on how entities should estimate fair value of certain alternative investments. The fair value of investments within the scope of the guidance can be determined using NAV per share as a practical expedient, when fair value is not readily determinable, unless it is probable the investment will be sold at something other than NAV.

The following tables include categories of investments within the Master Trust that measure NAV per share (or its equivalent) as of December 31, 2017 and 2016:

	2017			
	Fair Value	Unfunded Commitment	Redemption Frequency	Redemption Notice Period
Asset category:				
Fixed-income investments:				
Commingled funds (c)	$ 153,975,610	$ -	Immediate	None
Common collective trusts:				
Domestic (a)	83,795,471	-	Immediate	2 days
International (b)	170,793,911	-	Varies	1 - 10 days

	2016			
	Fair Value	Unfunded Commitment	Redemption Frequency	Redemption Notice Period
Asset category:				
Fixed-income investments:				
Commingled funds (c)	$ 69,102,968	$ -	Immediate	None
Common collective trusts:				
Domestic (a)	154,237,823	-	Immediate	2 days
International (b)	314,959,398	-	Varies	1 - 10 days

Note 6. Fair Value Measurements (Continued)

(a) Domestic - The objective of the funds is to seek capital appreciation by investing in U.S. publicly listed companies.

(b) International - The objective of the funds is to seek capital appreciation by investing in international publicly listed companies.

(c) Commingled funds - The objective of these investments is to seek current income and total return by investing in a diversified portfolio of fixed-income investments of varying maturities (mainly long credit).

Note 7. Related Party and Party-in-Interest Transactions

The Master Trust invests in the following investments managed by the Trustee or affiliated companies that qualify as party-in-interest transactions:

	December 31	
	2017	2016
State Street Global Advisors Russell 1000 Index Fund	$ 83,795,471	$ 154,237,823
State Street Bank & Trust Co. Short Term Investment Fund	46,370,308	59,108,969
AXA Secondary Fund V	4,343,406	11,824,910
AXA Capital Europe	4,586,400	5,519,128
AXA Capital America LP	3,703,779	4,519,114
AXA Early Secondary Fund V	7,915,342	7,282,027
AXA Private Equity Fund II	103,525	322,612
State Street Corp Preferred Stock	98,856	297,505

Fees paid by the Master Trust and the Plan for investment-related, administrative and custodial expenses to the Trustee and affiliated companies amounted to approximately $632,000 and $621,000 for the years ended December 31, 2017 and 2016, respectively. Fees paid by the Master Trust or Plan for investment management services were included as a reduction of the return earned on each investment. Certain other administrative functions are performed by officers or employees of the Parent and affiliates, for which no compensation is received from the Plan.

These transactions are not, however, considered prohibited transactions under Section 408(b) of the ERISA regulations.

Note 8. Derivative Financial Instruments

As of December 31, 2017 and 2016, a fixed-income manager of the Master Trust utilizes derivative financial instruments, including but not limited to, credit default swaps, interest rate swaps, and options. This manager uses these financial instruments to manage exposure to interest rate and credit risks and to achieve the overall desired duration under the Master Trust's fixed-income mandate.

Credit default swap agreements involve one party (referred to as the buyer of protection) making a stream of payments to another party (the seller of protection) in exchange for the right to receive a specified return in the event of a default or other credit event for the referenced entity, obligation or index. As a seller of protection on credit default swap agreements, the Master Trust will generally receive from the buyer of protection a fixed rate of income throughout the term of the swap, provided there is no credit event.

Note 8. Derivative Financial Instruments (Continued)

If a credit event occurs, as defined under the terms of that particular swap agreement, the Master Trust will either (i) pay to the buyer of protection an amount equal to the notional amount of the swap and take delivery of the referenced obligation, other deliverable obligation or underlying securities comprising the referenced index or (ii) pay a net settlement in the form of cash or securities equal to the notional amount of the swap less the recovery value of the referenced obligation or underlying securities comprising the referenced index.

The maximum potential amount of future payments (undiscounted) that the Master Trust as a seller of protection could be required to make under a credit default swap agreement would be an amount equal to the notional amount of the agreement. Notional amounts of all credit default swap agreements outstanding as of December 31, 2017 and 2016, for which the Master Trust is a seller of protection, are disclosed below. These potential amounts would be partially offset by any recovery values of the respective referenced obligations, up-front payments received upon entering into the agreement, or net amounts received from the settlement of buy protection credit default swap agreements entered into by the Master Trust for the same referenced entity or entities.

Interest rate swap agreements involve the exchange by the Master Trust with a counterparty of their respective commitments to pay or receive interest, e.g., an exchange of floating-rate payments for fixed-rate payments, with respect to the notional amount of principal. These swaps are used to adjust interest rate and yield curve exposure and substitute for physical securities. Long swap positions (“received fixed”) increase exposure to long-term interest rates; short positions (“pay fixed”) decrease exposure. Notional amounts of all interest rate swap agreements outstanding as of December 31, 2017 and 2016, are disclosed below.

The notional values of credit default swaps and interest rate swaps, which are summarized below, provide an indication of the extent of the Plan’s involvement in such instruments. Notional amounts of derivative financial instruments do not necessarily represent amounts exchanged by parties and, therefore, are not a direct measure of the Plan’s exposure from its use of derivatives.

The gross and net fair value of the options held by the Master Trust as of December 31, 2017 and 2016 were not material to the Master Trust, and were not included in the tables below.

Note 8. Derivative Financial Instruments (Continued)

	December 31, 2017				
	Notional/Par Value	Cost	Current Fair Value	Coupon Rate	Maturity
Credit default swaps:					
Indices	$ (79,791,000)	$ 1,626,639	$ 2,032,221	1.00% to 5.00%	December 20, 2020 to December 20, 2022
Companies	1,350,000	(373,059)	33,472	0.50% to 5.00%	March 20, 2018 to May 11, 2063
Countries:					
Brazil	1,900,000	(111,915)	(31,040)	1.00%	June 20, 2022 to December 20, 2022
Philippines	600,000	821	12,363	1.00%	December 20, 2021
Russia	1,500,000	(142,461)	4,714	1.00%	June 20, 2019
Mexico	4,250,000	(21,235)	28,102	1.00%	March 20, 2019 to December 20, 2022
Europe	(6,750,000)	164,318	231,934	1.00%	December 20, 2021 to December 20, 2022
Other	1,575,000	(27,697)	23,341	1.00%	September 20, 2020 to December 20, 2022
	$ (75,366,000)	$ 1,115,411	$ 2,335,107		
Interest rate swaps:					
Brazil	$ 31,100,000	$ (15,647)	$ (7,362)	9.65% to 10.30%	January 2, 2025
Europe	(5,050,000)	(26,624)	(24,436)	1.00% to 1.50%	March 21, 2028 to March 21, 2048
Japan	(871,500,000)	(119,846)	(103,766)	0.30% to 1.25%	September 20, 2024 to June 17, 2035
Mexico	95,800,000	(44,220)	(440,874)	5.61% to 7.74%	July 7, 2021 to August 14, 2037
United States	(8,300,000)	460,843	418,624	1.75%	December 21, 2026
Other	30,550,000	(177,803)	(168,477)	1.00% to 8.25%	March 21, 2023 to March 21, 2048
	$(727,400,000)	$ 76,703	$ (326,291)		

	December 31, 2016				
	Notional/Par Value	Cost	Current Fair Value	Coupon Rate	Maturity
Credit default swaps:					
Indices	$ (62,225,000)	$ 825,626	$ 1,164,417	1.00% to 5.00%	March 20, 2018 to December 20, 2021
Companies	2,850,000	(403,724)	10,959	0.50% to 5.00%	June 20, 2019 to May 11, 2063
Countries:					
Brazil	500,000	(33,051)	(15,510)	1.00%	June 20, 2020
Italy	11,200,000	(143,391)	(8,234)	1.00%	March 20, 2019 to June 20, 2019
Russia	1,500,000	(142,461)	(18,993)	1.00%	June 20, 2019
Mexico	4,250,000	(32,329)	(28,786)	1.00%	March 20, 2019 to June 20, 2021
Europe	5,750,000	178,093	145,318	1.00% to 3.00%	December 20, 2017 to December 20, 2021
Other	1,875,000	(31,419)	(16,775)	1.00%	September 20, 2020 to June 20, 2021
	$ (34,300,000)	$ 217,344	$ 1,232,396		
Interest rate swaps:					
China	$ 48,700,000	$ (8)	$ (43,040)	3.33% to 3.75%	November 18, 2021 to December 19, 2021
Europe	(1,550,000)	(40,610)	80,879	0.00% to 1.25%	December 08, 2020 to March 15, 2047
Japan	(240,500,000)	(48,867)	(120,661)	1.00% to 1.25%	September 20, 2024 to June 17, 2035
Mexico	78,100,000	(18,849)	(443,636)	5.61% to 6.75%	July 7, 2021 to January 3, 2035
United States	(67,300,000)	(59,201)	24,890	1.30% to 2.91%	May 7, 2017 to December 21, 2046
Other	7,850,000	130,642	97,742	0.50% to 8.30%	March 15, 2022 to March 15, 2047
	$(174,700,000)	$ (36,893)	$ (403,826)		

Note 8. Derivative Financial Instruments (Continued)

Included in credit default swaps are indices of credit default swaps where the portfolio has buying or selling protection on a series of investments, sovereign credit default swaps where the portfolio has sold protection on debt issued by foreign governments, and corporate credit default swaps where the portfolio has sold protection on debt issued by a corporation.

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

2017

This Form is Open to Public Inspection

For calendar plan year 2017 or fiscal plan year beginning 01/01/2017 and ending 12/31/2017

▶ **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
Rio Tinto America Inc. Retirement Plan

B Three-digit plan number (PN) ▶ 001

C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF
Rio Tinto America Inc.

D Employer Identification Number (EIN)
11-3359689

E Type of plan: [X] Single [ ] Multiple-A [ ] Multiple-B

F Prior year plan size: [ ] 100 or fewer [ ] 101-500 [X] More than 500

Part I Basic Information

1 Enter the valuation date: Month 01 Day 01 Year 2017

2 Assets:

a Market value	**2a**	375,408,708
b Actuarial value	**2b**	379,707,142

3 Funding target/participant count breakdown

	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target
a For retired participants and beneficiaries receiving payment	2,677	210,729,810	210,729,810
b For terminated vested participants	1,624	79,811,817	79,811,817
c For active participants	528	68,579,962	70,122,149
d Total	4,829	359,121,589	360,663,776

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**	5.84%
6 Target normal cost	**6**	6,608,219

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 Troy Ware TW

Signature of actuary

08/30/2018
Date

Troy Ware
Type or print name of actuary

1707419
Most recent enrollment number

Aon Consulting, Inc.
Firm name

303-639-4157
Telephone number (including area code)

1900 Sixteenth Street Suite 1000
Denver CO 80202
Address of the firm

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

Part II Beginning of Year Carryover and Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	99,332
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	99,332
10	Interest on line 9 using prior year's actual return of 8.63%	0	8,572
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		31,478,302
	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 6.04%		1,901,289
	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		33,379,591
	d Portion of (c) to be added to prefunding balance		33,379,591
12	Other reductions in balances due to elections or deemed elections	0	1,100,000
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	32,387,495

Part III Funding Percentages

14	Funding target attainment percentage	14	96.30%
15	Adjusted funding target attainment percentage	15	105.28%
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	98.64%
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
06/28/2018	44,000,000	0			
			Totals ► 18(b)	44,000,000	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	40,437,270

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
0	0	0	0

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

21 Discount rate:

a Segment rates:

1st segment:	2nd segment:	3rd segment:	
4.16 %	5.72 %	6.48%	☐ N/A, full yield curve used

b Applicable month (enter code)	21b	4
22 Weighted average retirement age	22	62

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	6,608,219
b Excess assets, if applicable, but not greater than line 31a	31b	0

32 Amortization installments:	Outstanding Balance	Installment
a Net shortfall amortization installment	13,344,129	2,284,627
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	8,892,846

	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement	0	7,348,133	7,348,133

36 Additional cash requirement (line 34 minus line 35)	36	1,544,713
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	40,437,270
38 Present value of excess contributions for current year (see instructions)		
a Total (excess, if any, of line 37 over line 36)	38a	38,892,557
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	7,348,133
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 Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 19—Discounted Employer Contributions

Year applied for contributions: 2017

Date	Amount	Days to Discount to 1/1/2017 at 5.84%	Interest Adjusted Contribution
June 28, 2018	$ 44,000,000	543	$ 40,437,270
Total Contribution	$ 44,000,000		$ 40,437,270

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

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

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

(a) Age	(b) Rate	(c) Weight	(d) Product (a) × (b) × (c)
55.5	10.00%	1.0000	5.55
56.5	5.00%	0.9000	2.54
57.5	5.00%	0.8550	2.46
58.5	5.00%	0.8123	2.38
59.5	5.00%	0.7716	2.30
60.5	10.00%	0.7331	4.43
61.5	10.00%	0.6598	4.06
62.5	25.00%	0.5938	9.28
63.5	15.00%	0.4453	4.24
64.5	15.00%	0.3785	3.66
65.5	50.00%	0.3218	10.54
66.5	50.00%	0.1609	5.35
67.5	50.00%	0.0804	2.71
68.5	50.00%	0.0402	1.38
69.5	50.00%	0.0201	0.70
70	100.00%	0.0101	0.70
		Weighted Average	62.28

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of September 2016), each adjusted as needed to fall within the 25-year average interest rate stabilization corridor
1st Segment Rate	4.16%
2nd Segment Rate	5.72%
3rd Segment Rate	6.48%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of September 2016), without regard to interest rate stabilization
1st Segment Rate	1.52%
2nd Segment Rate	3.80%
3rd Segment Rate	4.79%
Salary Increases	3.60%
Cash Balance Interest Crediting Rate	5.00%
Cash Balance Annuity Conversion Rate	Same as funding interest rates above
Social Security Wage Base Increases	Future wage indices are based on a national wage increase of 2.60% per year, based on an inflation assumption of 2.10% plus 0.50% per year.

Optional Payment Form Election Percentage	
Non-Cash Balance Active Participants	30% life annuity 30% joint and 50% life annuity 30% joint and 100% life annuity 10% 10 year certain and life annuity
Non-Cash Balance Terminated Vested Participants	30% life annuity 30% joint and 50% life annuity 30% joint and 100% life annuity 10% 10 year certain and life annuity
Cash Balance Active Participants	100% lump sum immediately for participants that retire from active service 100% lump sum at assumed average terminated vested retirement age (see Table 2) for participants that terminate prior to retirement eligibility
Cash Balance Terminated Vested Participants	100% lump sum at assumed terminated vested retirement age (see Table 2)
Optional Payment Form Conversion Interest Rate	
Lump Sums	Same as funding interest rates above
All Other Optional Forms	5.00%
Optional Payment Form Conversion Mortality	
Lump Sums	Current IRC section 417(e) table for lump sums
All Other Optional Forms	GA-1971 male mortality table
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	See Table 2
Mortality Rates	
Healthy and Disabled	2017 static mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(e)
Withdrawal Rates	See Table 3
Disability Rates	See Table 4
Decrement Timing	Middle of year decrements (except that retirement is assumed to occur at the beginning of the year for ages where the assumed retirement rate is 100%)

Surviving Spouse Benefit	It is assumed that 85% of males and 70% of females have an eligible spouse, and that males are three years older than their spouses.
Valuation Compensation	2016 pensionable earnings rolled forward one year with the salary increase assumption.
Benefit and Compensation Limits	Projected benefits and compensation are limited by the current IRC section 415 maximum benefit of $215,000 and the IRC section 401(a)(17) compensation limit of $270,000.
Valuation of Plan Assets	Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value. A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).
Expected Return on Assets	
2015 Plan Year	6.50%
2016 Plan Year	6.70%, limited to 6.65%
2017 Plan Year	5.90%
Trust Expenses Included in Target Normal Cost	$2,480,972, based on the prior year's actual plan administrative expenses (excluding PBGC premiums) plus the estimated PBGC premium for the current year.
Actuarial Method	Standard unit credit cost method
Valuation Date	January 1, 2017

Table 1

Retirement Rates—Active Participants

Age	Rate
55	10.00%
56	5.00%
57	5.00%
58	5.00%
59	5.00%
60	10.00%
61	10.00%
62	25.00%
63	15.00%
64	15.00%
65	50.00%
66	50.00%
67	50.00%
68	50.00%
69	50.00%
70+	100.00%

Table 2

Retirement Rates—Terminated Vested Participants

Age	Rate
55	10.00%
56	5.00%
57	5.00%
58	5.00%
59	5.00%
60	10.00%
61	10.00%
62	25.00%
63	15.00%
64	15.00%
65	100.00%
66	100.00%
67	100.00%
68	100.00%
69	100.00%
70+	100.00%

Table 3

Withdrawal Rates

Age	Rate	Age	Rate
18	0.00%	48	4.20%
19	15.00%	49	3.60%
20	15.00%	50	3.00%
21	15.00%	51	3.00%
22	15.00%	52	3.00%
23	15.00%	53	3.00%
24	15.00%	54	3.00%
25	15.00%	55+	3.00%
26	14.40%		
27	13.80%		
28	13.20%		
29	12.60%		
30	12.00%		
31	11.60%		
32	11.20%		
33	10.80%		
34	10.40%		
35	10.00%		
36	9.60%		
37	9.20%		
38	8.80%		
39	8.40%		
40	8.00%		
41	7.60%		
42	7.20%		
43	6.80%		
44	6.40%		
45	6.00%		
46	5.40%		
47	4.80%		

Table 4

Disability Rates

Age	Rate	Age	Rate
18	0.000%	48	0.450%
19	0.080%	49	0.502%
20	0.080%	50	0.580%
21	0.080%	51	0.640%
22	0.080%	52	0.700%
23	0.080%	53	0.810%
24	0.080%	54	0.910%
25	0.090%	55	1.020%
26	0.090%	56	1.120%
27	0.090%	57	1.230%
28	0.090%	58	1.350%
29	0.100%	59	1.480%
30	0.100%	60	1.600%
31	0.110%	61	1.730%
32	0.110%	62	1.850%
33	0.120%	63	1.990%
34	0.140%	64	2.130%
35	0.130%	65+	0.000%
36	0.140%		
37	0.150%		
38	0.170%		
39	0.190%		
40	0.200%		
41	0.220%		
42	0.240%		
43	0.270%		
44	0.300%		
45	0.330%		
46	0.360%		
47	0.390%		

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, Part V—Summary of Plan Provisions

Effective Date	January 1, 2003.
Date of Participation	First day of the month after completing one year of service. Participation is closed to new entrants as of April 1, 2007. Participants who were active in the RTA plan at that time were given the option to either stay in the RTA plan or transfer to the Investment Partnership Plan (IPP) as of September 30, 2007. As of October 1, 2012, Cleveland Salaried employees that were participants in the Alcancorp Pension Plan before 2012 began accruing in the RTA Plan. Benefits in the RTA Plan are calculated using pay and service earned after the date of transfer into the RTA Plan. However, participants receive vesting service from date of hire. As of January 1, 2013, all remaining active PPPI, active Cable, and LTD participants in the Alcancorp Pension Plan began accruing in the RTA Plan. Benefits in the RTA Plan are calculated using pay and service earned after the date of transfer into the RTA Plan. However, participants receive vesting service from date of hire. As of January 1, 2015, active participants who are rehired into the IPP with a break in service of less than five years are eligible to receive pay increases to their RTA Plan benefit, even if they did not choose to transfer to the IPP in 2007. As of November 6, 2017, all participants who were part of the annuity contract purchase that occurred on October 31, 2017 are no longer participants under the plan. However, they are still included in the 2017 funding valuation since they were participants in the plan as of the valuation date.

Normal Retirement

Eligibility	Age 65.
Total Benefit	(a) For service before January 1, 2003: See supplements. (b) For service after December 31, 2002: A monthly benefit equal to (i) plus (ii) below, multiplied by Benefit Service: (i) 1% of Final Average Earnings up to Social Security Covered Compensation. (ii) 1.667% of Final Average Earnings in excess of Social Security Covered Compensation.
Compensation Update	Former Alcancorp Pension Plan participants also receive a compensation update on their frozen benefit from the Alcancorp Pension Plan. The compensation update is payable from the RTA Plan. The compensation update is equal to the percentage increase of the Final Average Earnings over the participant's Highest Average Earnings used to calculate the frozen benefit payable from the Alcancorp Pension Plan, multiplied by the frozen benefit payable from the Alcancorp Pension Plan. The compensation update has a minimum value of $0 and is added to the Normal Retirement Benefit accrued under the RTA Plan as described above.

Early Retirement

Eligibility	Age 55 and five years of Vesting Service.
Total Benefit	Termination before age 55 or before completing 10 years of Vesting Service. The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.76
64	0.96	58	0.72
63	0.92	57	0.68
62	0.88	56	0.64
61	0.84	55	0.60
60	0.80		

Termination after age 55 and after completing 10 years of Vesting Service:

The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.88
64	1.00	58	0.84
63	1.00	57	0.80
62	1.00	56	0.76
61	0.96	55	0.72
60	0.92		

Late Retirement

Eligibility — Retire after normal retirement date.

Total Benefit — The normal retirement benefit accrued at the date of late retirement.

Disability Retirement for Non-Luzenac Hourly Employees

Eligibility — Five years of Vesting Service.

Total Benefit — The normal retirement benefit, calculated using Benefit Service that continues to accrue during disability leave, multiplied by the appropriate early retirement factor from the tables above.

Disability Retirement for Luzenac Hourly Employees

Eligibility — Ten years of Vesting Service.

Total Benefit — A monthly benefit equal to the greater of (a) or (b) below:

(a) The normal retirement benefit as of this date of disability, or

(b) $500.

Vested Termination

Eligibility — Five years of Vesting Service or age 65.

Total Benefit — The normal retirement benefit accrued at termination, commencing at age 65. The participant may elect for benefits to start after age 55, with benefits reduced by the early retirement factors for retirement with less than 10 years of service.

Preretirement Death	
Eligibility	Five years of Vesting Service.
Total Benefit	For a married participant, the surviving spouse receives 50% of the participant's accrued benefit, payable as an immediate life annuity. For a single participant with a trust beneficiary, the trust receives lump sum equal to the actuarial equivalent of 50% of the participant's accrued benefit. For a single participant with a non-trust beneficiary, the beneficiary receives the actuarial equivalent of 50% of the participant's accrued benefit, payable as a 60-month temporary life annuity.
Normal Form of Benefit	50% J&S annuity if married, otherwise a life annuity. For married participants, if the spouse pre-deceases the participant, payments will continue to the participant in the amount equal to what the participant would have received at retirement had the participant elected a single life annuity.
Optional Forms of Payment	A retiring participant may also elect other optional forms of payment on an actuarially equivalent basis. These options include: ▪ life annuity, ▪ 50%, 75%, or 100% joint and survivor annuities, ▪ 5, 10, or 15 year certain and life annuities, ▪ level income option for retirement prior to commencement of Social Security benefits, and ▪ lump sum, if monthly benefit is $100 or less. These optional forms are based on the 1971 Group Annuity Male Mortality Table and 5.00% interest.
Employee Contributions	None required or permitted.
Definitions	
Benefit Service	Elapsed service from the later of January 1, 2003 and date of hire, excluding periods while a participant is on a leave of absence. Benefit Service is frozen as of September 30, 2007 for those participants who chose to transfer into the IPP.

Vesting Service	All service from date of hire. Includes periods while a participant is on a leave of absence.
Final Average Earnings	Average of the highest Eligible Earnings in the 36 consecutive months out of the last 120 months of service. Final Average Earnings is not frozen for those participants who chose to transfer to the IPP, nor for those participants who were rehired into the IPP with a break in service of less than five years.
Eligible Earnings	Base pay and 50% of any short-term bonus. Base pay means total earnings including deferred base pay, lump sum merit pay, pre-tax 401(k) or cafeteria plan contributions, but excluding overtime, severance pay, bonuses, and extraordinary items.
Social Security Covered Compensation	The average amount of earnings under the Social Security Act equal to the average of the maximum Taxable Wage Base in each year that would be used to calculate the Social Security benefit for a participant retiring at his Social Security Retirement Age.
Highest Average Earnings	A participant's annual Earnings for the highest three consecutive calendar years ending at least three months before normal retirement or earlier termination, divided by 35.
Earnings	Regular base pay, incentive program pay, overtime and other premium pay, certain lump sum payments payable in lieu of salary or wage increases, pay under any plan of variable compensation and 401(k), Section 125 and Section 132(f)(4) deferrals.

U.S. Borax Supplement

Participation	These plan provisions apply to participants who were employees of U.S. Borax Inc. prior to January 1, 2003.
Normal Retirement	
Eligibility	Age 65.
Total Benefit	A monthly benefit equal to (i) plus (ii) below, multiplied by Pensionable Service after July 1, 1974. (i) 1% of Final Average Earnings up to Social Security Covered Compensation. (ii) 1.667% of Final Average Earnings in excess of Social Security Covered Compensation. Prior plan benefit applies to service before July 1, 1974. Minimum monthly benefit equal to $72.00 times all years of service.
Early Retirement	
Eligibility	Age 55.
Benefit	Normal retirement benefit reduced by the early retirement factors above for retirement with more than 10 years of service.
Definitions	
Pensionable Service	All service after one year of service or from date of hire after five years of service, but not beyond December 31, 2002. May include periods during which a participant is on a leave of absence.

Final Average Earnings	Average of the highest earnings in the 36 consecutive months out of the last 120 months of service. Final Average Earnings was not frozen as of December 31, 2002. Earnings include: ▪ Base pay. ▪ 50% of short-term bonuses paid during 36-month period. ▪ Overtime pay for the three consecutive calendar years ending before 2003 with the highest overtime pay (if employment terminates prior to 12/31/2007). ▪ Up to 520 hours of vacation pay for vacation earned but not taken (if employment terminates prior to 12/31/2009).

Luzenac Supplement

Participation

These plan provisions apply to salaried participants' periods of employment with Luzenac America, Inc. prior to January 1, 2003.

Normal Retirement

Eligibility

Age 65 and five years of service.

Total Benefit

A monthly benefit equal to the sum of (a), (b), and (c), but not less than (d), below:

(a) 1.20% of Final Average Earnings up to Social Security Covered Compensation multiplied by years of Benefit Service, not to exceed 35 years.

(b) 1.65% of Final Average Earnings in excess of Social Security Covered Compensation, multiplied by Benefit Service, not to exceed 35 years.

(c) 1.50% of Final Average Earnings multiplied by Benefit Service in excess of 35 years.

(d) $40 multiplied by all years of service.

Early Retirement

Eligibility

Age 55 and 10 years of service.

Benefit

The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.85
64	1.00	58	0.80
63	1.00	57	0.75
62	1.00	56	0.70
61	0.95	55	0.65
60	0.90		

Definitions

Benefit Service	Elapsed time from date of employment, ending on December 31, 2002.
Final Average Earnings	Average of the highest earnings during the 60 consecutive months during the 120 months of service preceding termination or retirement. Final Average Earnings was not frozen as of December 31, 2002.
Eligible Earnings	Base pay and 50% of any short-term bonus. Base pay means total earnings including deferred base pay, lump sum merit pay, pre-tax 401(k) or cafeteria plan contributions, but excluding overtime, severance pay, bonuses, and extraordinary items.

Kennecott Supplement

Participation	These plan provisions apply to participants who were employees of Kennecott Corporation prior to January 1, 2003.
Normal Retirement	
Eligibility	Age 65.
Total Benefit	The actuarial equivalent of the opening and current account balances.
Early Retirement	
Eligibility	Age 55 and 10 years of service.
Benefit	The actuarial equivalent of the opening and current account balances.
Accounts and Credits to Accounts	
Opening Account	For all participants who were active as of January 1, 1989, an opening account balance was established based on benefits accrued under prior plans.
Current Account	A current account was established for each participant as of the later of (i) January 1, 1989 or (ii) the date the participant first becomes eligible for the plan. At the end of each calendar month, pay-related credits are added to the current account. No pay-related credits are granted after December 31, 2002.
Regular Interest Credits	Regular interest credits are added to all accounts at an effective annual rate equal to the greater of (i) 5%, or (ii) the average (rounded to the nearest one-hundredth of one percent) of the one-year Treasury bill rates in effect during each month of the 12-month period ending on November 30 of the preceding calendar year, rounded up to the nearest one-quarter of one percent, plus one percent.
Supplemental Interest Credits	An additional supplemental interest credit at a rate equal to one-half of the regular interest rate applies to the opening account prior to termination of employment. Effective January 1, 2016, the supplemental interest credit is no longer granted.

Plan Changes Since the Prior Year

The funding valuation reflects the following plan changes:

- A change in the mortality basis for lump sum payments from the 2016 plan year IRC section 417(e)(3) mortality table to the 2017 plan year IRC section 417(e)(3) mortality table.
- The compensation limit under Section 401(a)(17) of the Internal Revenue Code changed from $265,000 to $270,000.
- The dollar limit under Section 415(b) of the Internal Revenue Code changed from $210,000 to $215,000.

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

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

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 24—Change in Actuarial Assumptions

The funding valuation reflects the following assumption changes:

- A change in the assumed expenses payable from the trust from $3,332,665 to $2,480,972.
- A change in the salary increase assumption from 0.25% to 3.60%.
- A change in the funding asset return assumption from 6.70% (limited to 6.65%) for 2016 to 5.90% for 2017.
- An update to the termination rates such that they continue past retirement eligibility.

These changes were made to better reflect anticipated plan experience. The non-prescribed assumption changes did not reduce the funding shortfall by more than $5 million; as such, approval of the Commissioner is not required.

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 26—Schedule of Active Participant Data as of January 1, 2017

Number of Participants, Average Compensation, and Average Cash Balance Account

Attained Age	Years of Credited Service									
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+
<25										
25-29										
30-34	3	4		3	1					
35-39	12	20 $131,822 $715	7	15	1					
40-44	6	31 $148,103 $1,837	1	25 $131,090 $3,570	4					
45-49	6	32 $160,647 $9,097	6	30 $121,055 $10,886	4	1	1			
50-54	5	18	7	36 $127,555 $23,973	5	3	1	1		
55-59	1	17	7	65 $142,583 $72,635	2	3	5	4	7	
60-64	3	22 $138,786 $4,107	3	64 $136,591 $104,780	6	2	4	2	7	1
65-69		3		10	1					
70+										

N-528

Note: The average cash balance account shown is an average of the cash balance accounts for all plan participants, including those with a balance of $0.

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 32—Schedule of Amortization Bases

Type of Base	Present Value of Installment	Date Established	Years Remaining	Amortization Installment
Shortfall	$ 4,265,433	January 1, 2016	6	$ 793,797
Shortfall	$ 9,078,696	January 1, 2017	7	$ 1,490,830

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 19—Discounted Employer Contributions

Year applied for contributions: 2017

Date	Amount	Days to Discount to 1/1/2017 at 5.84%	Interest Adjusted Contribution
June 28, 2018	$ 44,000,000	543	$ 40,437,270
Total Contribution	$ 44,000,000		$ 40,437,270

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

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

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

(a) Age	(b) Rate	(c) Weight	(d) Product (a) × (b) × (c)
55.5	10.00%	1.0000	5.55
56.5	5.00%	0.9000	2.54
57.5	5.00%	0.8550	2.46
58.5	5.00%	0.8123	2.38
59.5	5.00%	0.7716	2.30
60.5	10.00%	0.7331	4.43
61.5	10.00%	0.6598	4.06
62.5	25.00%	0.5938	9.28
63.5	15.00%	0.4453	4.24
64.5	15.00%	0.3785	3.66
65.5	50.00%	0.3218	10.54
66.5	50.00%	0.1609	5.35
67.5	50.00%	0.0804	2.71
68.5	50.00%	0.0402	1.38
69.5	50.00%	0.0201	0.70
70	100.00%	0.0101	0.70
		Weighted Average	62.28

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 24—Change in Actuarial Assumptions

The funding valuation reflects the following assumption changes:

- A change in the assumed expenses payable from the trust from $3,332,665 to $2,480,972.
- A change in the salary increase assumption from 0.25% to 3.60%.
- A change in the funding asset return assumption from 6.70% (limited to 6.65%) for 2016 to 5.90% for 2017.
- An update to the termination rates such that they continue past retirement eligibility.

These changes were made to better reflect anticipated plan experience. The non-prescribed assumption changes did not reduce the funding shortfall by more than $5 million; as such, approval of the Commissioner is not required.

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 26—Schedule of Active Participant Data as of January 1, 2017

Number of Participants, Average Compensation, and Average Cash Balance Account

Attained Age	Years of Credited Service									
	<1	1-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40+
<25										
25-29										
30-34	3	4		3	1					
35-39	12	20 $131,822 $715	7	15	1					
40-44	6	31 $148,103 $1,837	1	25 $131,090 $3,570	4					
45-49	6	32 $160,647 $9,097	6	30 $121,055 $10,886	4	1	1			
50-54	5	18	7	36 $127,555 $23,973	5	3	1	1		
55-59	1	17	7	65 $142,583 $72,635	2	3	5	4	7	
60-64	3	22 $138,786 $4,107	3	64 $136,591 $104,780	6	2	4	2	7	1
65-69		3		10	1					
70+										

N-528

Note: The average cash balance account shown is an average of the cash balance accounts for all plan participants, including those with a balance of $0.

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, line 32—Schedule of Amortization Bases

Type of Base	Present Value of Installment	Date Established	Years Remaining	Amortization Installment
Shortfall	$ 4,265,433	January 1, 2016	6	$ 793,797
Shortfall	$ 9,078,696	January 1, 2017	7	$ 1,490,830

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, Part V—Statement of Actuarial Assumptions/Methods

Interest Rates for Minimum Funding Purposes	Based on segment rates with a four-month lookback (as of September 2016), each adjusted as needed to fall within the 25-year average interest rate stabilization corridor
1st Segment Rate	4.16%
2nd Segment Rate	5.72%
3rd Segment Rate	6.48%
Interest Rates for Maximum Tax Purposes	Based on segment rates with a four-month lookback (as of September 2016), without regard to interest rate stabilization
1st Segment Rate	1.52%
2nd Segment Rate	3.80%
3rd Segment Rate	4.79%
Salary Increases	3.60%
Cash Balance Interest Crediting Rate	5.00%
Cash Balance Annuity Conversion Rate	Same as funding interest rates above
Social Security Wage Base Increases	Future wage indices are based on a national wage increase of 2.60% per year, based on an inflation assumption of 2.10% plus 0.50% per year.

Optional Payment Form Election Percentage	
Non-Cash Balance Active Participants	30% life annuity 30% joint and 50% life annuity 30% joint and 100% life annuity 10% 10 year certain and life annuity
Non-Cash Balance Terminated Vested Participants	30% life annuity 30% joint and 50% life annuity 30% joint and 100% life annuity 10% 10 year certain and life annuity
Cash Balance Active Participants	100% lump sum immediately for participants that retire from active service 100% lump sum at assumed average terminated vested retirement age (see Table 2) for participants that terminate prior to retirement eligibility
Cash Balance Terminated Vested Participants	100% lump sum at assumed terminated vested retirement age (see Table 2)
Optional Payment Form Conversion Interest Rate	
Lump Sums	Same as funding interest rates above
All Other Optional Forms	5.00%
Optional Payment Form Conversion Mortality	
Lump Sums	Current IRC section 417(e) table for lump sums
All Other Optional Forms	GA-1971 male mortality table
Retirement Age	
Active Participants	See Table 1
Terminated Vested Participants	See Table 2
Mortality Rates	
Healthy and Disabled	2017 static mortality table for annuitants and non-annuitants per §1.430(h)(3)-1(e)
Withdrawal Rates	See Table 3
Disability Rates	See Table 4
Decrement Timing	Middle of year decrements (except that retirement is assumed to occur at the beginning of the year for ages where the assumed retirement rate is 100%)

Surviving Spouse Benefit	It is assumed that 85% of males and 70% of females have an eligible spouse, and that males are three years older than their spouses.
Valuation Compensation	2016 pensionable earnings rolled forward one year with the salary increase assumption.
Benefit and Compensation Limits	Projected benefits and compensation are limited by the current IRC section 415 maximum benefit of $215,000 and the IRC section 401(a)(17) compensation limit of $270,000.
Valuation of Plan Assets	Smoothed fair market value of assets over the current and prior two years, adjusted for contributions, benefit payments, administrative expenses, and expected earnings. The average value of assets calculated in this manner is further limited to not less than 90% nor more than 110% of fair market value. A characteristic of this method is that the expected distribution of the value of plan assets is skewed toward understatement relative to the corresponding market values for expected long-term rates of return in excess of the third segment rate under IRC section 430(h)(2)(C)(iii).
Expected Return on Assets	
2015 Plan Year	6.50%
2016 Plan Year	6.70%, limited to 6.65%
2017 Plan Year	5.90%
Trust Expenses Included in Target Normal Cost	$2,480,972, based on the prior year's actual plan administrative expenses (excluding PBGC premiums) plus the estimated PBGC premium for the current year.
Actuarial Method	Standard unit credit cost method
Valuation Date	January 1, 2017

Table 1

Retirement Rates—Active Participants

Age	Rate
55	10.00%
56	5.00%
57	5.00%
58	5.00%
59	5.00%
60	10.00%
61	10.00%
62	25.00%
63	15.00%
64	15.00%
65	50.00%
66	50.00%
67	50.00%
68	50.00%
69	50.00%
70+	100.00%

Table 2

Retirement Rates—Terminated Vested Participants

Age	Rate
55	10.00%
56	5.00%
57	5.00%
58	5.00%
59	5.00%
60	10.00%
61	10.00%
62	25.00%
63	15.00%
64	15.00%
65	100.00%
66	100.00%
67	100.00%
68	100.00%
69	100.00%
70+	100.00%

Table 3

Withdrawal Rates

Age	Rate	Age	Rate
18	0.00%	48	4.20%
19	15.00%	49	3.60%
20	15.00%	50	3.00%
21	15.00%	51	3.00%
22	15.00%	52	3.00%
23	15.00%	53	3.00%
24	15.00%	54	3.00%
25	15.00%	55+	3.00%
26	14.40%		
27	13.80%		
28	13.20%		
29	12.60%		
30	12.00%		
31	11.60%		
32	11.20%		
33	10.80%		
34	10.40%		
35	10.00%		
36	9.60%		
37	9.20%		
38	8.80%		
39	8.40%		
40	8.00%		
41	7.60%		
42	7.20%		
43	6.80%		
44	6.40%		
45	6.00%		
46	5.40%		
47	4.80%		

Table 4

Disability Rates

Age	Rate	Age	Rate
18	0.000%	48	0.450%
19	0.080%	49	0.502%
20	0.080%	50	0.580%
21	0.080%	51	0.640%
22	0.080%	52	0.700%
23	0.080%	53	0.810%
24	0.080%	54	0.910%
25	0.090%	55	1.020%
26	0.090%	56	1.120%
27	0.090%	57	1.230%
28	0.090%	58	1.350%
29	0.100%	59	1.480%
30	0.100%	60	1.600%
31	0.110%	61	1.730%
32	0.110%	62	1.850%
33	0.120%	63	1.990%
34	0.140%	64	2.130%
35	0.130%	65+	0.000%
36	0.140%		
37	0.150%		
38	0.170%		
39	0.190%		
40	0.200%		
41	0.220%		
42	0.240%		
43	0.270%		
44	0.300%		
45	0.330%		
46	0.360%		
47	0.390%		

Schedule SB Attachment (Form 5500)—2017 Plan Year
Rio Tinto America Inc. Retirement Plan
EIN: 11-3359689 PN: 001

Schedule SB, Part V—Summary of Plan Provisions

Effective Date	January 1, 2003.
Date of Participation	First day of the month after completing one year of service. Participation is closed to new entrants as of April 1, 2007. Participants who were active in the RTA plan at that time were given the option to either stay in the RTA plan or transfer to the Investment Partnership Plan (IPP) as of September 30, 2007. As of October 1, 2012, Cleveland Salaried employees that were participants in the Alcancorp Pension Plan before 2012 began accruing in the RTA Plan. Benefits in the RTA Plan are calculated using pay and service earned after the date of transfer into the RTA Plan. However, participants receive vesting service from date of hire. As of January 1, 2013, all remaining active PPPI, active Cable, and LTD participants in the Alcancorp Pension Plan began accruing in the RTA Plan. Benefits in the RTA Plan are calculated using pay and service earned after the date of transfer into the RTA Plan. However, participants receive vesting service from date of hire. As of January 1, 2015, active participants who are rehired into the IPP with a break in service of less than five years are eligible to receive pay increases to their RTA Plan benefit, even if they did not choose to transfer to the IPP in 2007. As of November 6, 2017, all participants who were part of the annuity contract purchase that occurred on October 31, 2017 are no longer participants under the plan. However, they are still included in the 2017 funding valuation since they were participants in the plan as of the valuation date.

Normal Retirement

Eligibility	Age 65.
Total Benefit	(a) For service before January 1, 2003: See supplements. (b) For service after December 31, 2002: A monthly benefit equal to (i) plus (ii) below, multiplied by Benefit Service: (i) 1% of Final Average Earnings up to Social Security Covered Compensation. (ii) 1.667% of Final Average Earnings in excess of Social Security Covered Compensation.
Compensation Update	Former Alcancorp Pension Plan participants also receive a compensation update on their frozen benefit from the Alcancorp Pension Plan. The compensation update is payable from the RTA Plan. The compensation update is equal to the percentage increase of the Final Average Earnings over the participant's Highest Average Earnings used to calculate the frozen benefit payable from the Alcancorp Pension Plan, multiplied by the frozen benefit payable from the Alcancorp Pension Plan. The compensation update has a minimum value of $0 and is added to the Normal Retirement Benefit accrued under the RTA Plan as described above.

Early Retirement

Eligibility	Age 55 and five years of Vesting Service.
Total Benefit	Termination before age 55 or before completing 10 years of Vesting Service. The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.76
64	0.96	58	0.72
63	0.92	57	0.68
62	0.88	56	0.64
61	0.84	55	0.60
60	0.80		

Termination after age 55 and after completing 10 years of Vesting Service:

The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.88
64	1.00	58	0.84
63	1.00	57	0.80
62	1.00	56	0.76
61	0.96	55	0.72
60	0.92		

Late Retirement

Eligibility — Retire after normal retirement date.

Total Benefit — The normal retirement benefit accrued at the date of late retirement.

Disability Retirement for Non-Luzenac Hourly Employees

Eligibility — Five years of Vesting Service.

Total Benefit — The normal retirement benefit, calculated using Benefit Service that continues to accrue during disability leave, multiplied by the appropriate early retirement factor from the tables above.

Disability Retirement for Luzenac Hourly Employees

Eligibility — Ten years of Vesting Service.

Total Benefit — A monthly benefit equal to the greater of (a) or (b) below:

(a) The normal retirement benefit as of this date of disability, or

(b) $500.

Vested Termination

Eligibility — Five years of Vesting Service or age 65.

Total Benefit — The normal retirement benefit accrued at termination, commencing at age 65. The participant may elect for benefits to start after age 55, with benefits reduced by the early retirement factors for retirement with less than 10 years of service.

Preretirement Death	
Eligibility	Five years of Vesting Service.
Total Benefit	For a married participant, the surviving spouse receives 50% of the participant's accrued benefit, payable as an immediate life annuity. For a single participant with a trust beneficiary, the trust receives lump sum equal to the actuarial equivalent of 50% of the participant's accrued benefit. For a single participant with a non-trust beneficiary, the beneficiary receives the actuarial equivalent of 50% of the participant's accrued benefit, payable as a 60-month temporary life annuity.
Normal Form of Benefit	50% J&S annuity if married, otherwise a life annuity. For married participants, if the spouse pre-deceases the participant, payments will continue to the participant in the amount equal to what the participant would have received at retirement had the participant elected a single life annuity.
Optional Forms of Payment	A retiring participant may also elect other optional forms of payment on an actuarially equivalent basis. These options include: ▪ life annuity, ▪ 50%, 75%, or 100% joint and survivor annuities, ▪ 5, 10, or 15 year certain and life annuities, ▪ level income option for retirement prior to commencement of Social Security benefits, and ▪ lump sum, if monthly benefit is $100 or less. These optional forms are based on the 1971 Group Annuity Male Mortality Table and 5.00% interest.
Employee Contributions	None required or permitted.
Definitions	
Benefit Service	Elapsed service from the later of January 1, 2003 and date of hire, excluding periods while a participant is on a leave of absence. Benefit Service is frozen as of September 30, 2007 for those participants who chose to transfer into the IPP.

Vesting Service	All service from date of hire. Includes periods while a participant is on a leave of absence.
Final Average Earnings	Average of the highest Eligible Earnings in the 36 consecutive months out of the last 120 months of service. Final Average Earnings is not frozen for those participants who chose to transfer to the IPP, nor for those participants who were rehired into the IPP with a break in service of less than five years.
Eligible Earnings	Base pay and 50% of any short-term bonus. Base pay means total earnings including deferred base pay, lump sum merit pay, pre-tax 401(k) or cafeteria plan contributions, but excluding overtime, severance pay, bonuses, and extraordinary items.
Social Security Covered Compensation	The average amount of earnings under the Social Security Act equal to the average of the maximum Taxable Wage Base in each year that would be used to calculate the Social Security benefit for a participant retiring at his Social Security Retirement Age.
Highest Average Earnings	A participant's annual Earnings for the highest three consecutive calendar years ending at least three months before normal retirement or earlier termination, divided by 35.
Earnings	Regular base pay, incentive program pay, overtime and other premium pay, certain lump sum payments payable in lieu of salary or wage increases, pay under any plan of variable compensation and 401(k), Section 125 and Section 132(f)(4) deferrals.

U.S. Borax Supplement

Participation	These plan provisions apply to participants who were employees of U.S. Borax Inc. prior to January 1, 2003.
Normal Retirement	
Eligibility	Age 65.
Total Benefit	A monthly benefit equal to (i) plus (ii) below, multiplied by Pensionable Service after July 1, 1974. (i) 1% of Final Average Earnings up to Social Security Covered Compensation. (ii) 1.667% of Final Average Earnings in excess of Social Security Covered Compensation. Prior plan benefit applies to service before July 1, 1974. Minimum monthly benefit equal to $72.00 times all years of service.
Early Retirement	
Eligibility	Age 55.
Benefit	Normal retirement benefit reduced by the early retirement factors above for retirement with more than 10 years of service.
Definitions	
Pensionable Service	All service after one year of service or from date of hire after five years of service, but not beyond December 31, 2002. May include periods during which a participant is on a leave of absence.

Final Average Earnings	Average of the highest earnings in the 36 consecutive months out of the last 120 months of service. Final Average Earnings was not frozen as of December 31, 2002. Earnings include: ▪ Base pay. ▪ 50% of short-term bonuses paid during 36-month period. ▪ Overtime pay for the three consecutive calendar years ending before 2003 with the highest overtime pay (if employment terminates prior to 12/31/2007). ▪ Up to 520 hours of vacation pay for vacation earned but not taken (if employment terminates prior to 12/31/2009).

Luzenac Supplement

Participation

These plan provisions apply to salaried participants' periods of employment with Luzenac America, Inc. prior to January 1, 2003.

Normal Retirement

Eligibility

Age 65 and five years of service.

Total Benefit

A monthly benefit equal to the sum of (a), (b), and (c), but not less than (d), below:

(a) 1.20% of Final Average Earnings up to Social Security Covered Compensation multiplied by years of Benefit Service, not to exceed 35 years.

(b) 1.65% of Final Average Earnings in excess of Social Security Covered Compensation, multiplied by Benefit Service, not to exceed 35 years.

(c) 1.50% of Final Average Earnings multiplied by Benefit Service in excess of 35 years.

(d) $40 multiplied by all years of service.

Early Retirement

Eligibility

Age 55 and 10 years of service.

Benefit

The accrued normal retirement benefit multiplied by the appropriate age-based factor below:

Age	Factor	Age	Factor
65	1.00	59	0.85
64	1.00	58	0.80
63	1.00	57	0.75
62	1.00	56	0.70
61	0.95	55	0.65
60	0.90		

Definitions

Benefit Service	Elapsed time from date of employment, ending on December 31, 2002.
Final Average Earnings	Average of the highest earnings during the 60 consecutive months during the 120 months of service preceding termination or retirement. Final Average Earnings was not frozen as of December 31, 2002.
Eligible Earnings	Base pay and 50% of any short-term bonus. Base pay means total earnings including deferred base pay, lump sum merit pay, pre-tax 401(k) or cafeteria plan contributions, but excluding overtime, severance pay, bonuses, and extraordinary items.

Kennecott Supplement

Participation	These plan provisions apply to participants who were employees of Kennecott Corporation prior to January 1, 2003.
Normal Retirement	
Eligibility	Age 65.
Total Benefit	The actuarial equivalent of the opening and current account balances.
Early Retirement	
Eligibility	Age 55 and 10 years of service.
Benefit	The actuarial equivalent of the opening and current account balances.
Accounts and Credits to Accounts	
Opening Account	For all participants who were active as of January 1, 1989, an opening account balance was established based on benefits accrued under prior plans.
Current Account	A current account was established for each participant as of the later of (i) January 1, 1989 or (ii) the date the participant first becomes eligible for the plan. At the end of each calendar month, pay-related credits are added to the current account. No pay-related credits are granted after December 31, 2002.
Regular Interest Credits	Regular interest credits are added to all accounts at an effective annual rate equal to the greater of (i) 5%, or (ii) the average (rounded to the nearest one-hundredth of one percent) of the one-year Treasury bill rates in effect during each month of the 12-month period ending on November 30 of the preceding calendar year, rounded up to the nearest one-quarter of one percent, plus one percent.
Supplemental Interest Credits	An additional supplemental interest credit at a rate equal to one-half of the regular interest rate applies to the opening account prior to termination of employment. Effective January 1, 2016, the supplemental interest credit is no longer granted.

Plan Changes Since the Prior Year

The funding valuation reflects the following plan changes:

- A change in the mortality basis for lump sum payments from the 2016 plan year IRC section 417(e)(3) mortality table to the 2017 plan year IRC section 417(e)(3) mortality table.
- The compensation limit under Section 401(a)(17) of the Internal Revenue Code changed from $265,000 to $270,000.
- The dollar limit under Section 415(b) of the Internal Revenue Code changed from $210,000 to $215,000.

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

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

Federal Statements

Rio Tinto America Inc. Retirement Plan
Plan: 001

Assets Held for Investment

Party in Interest	Identity	Description	Cost	Current Value
	See Financial Stmt		$	$