NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



ANNUAL RETURN

LICENCE NO	11956
LICENCE HOLDER	NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD
REPORTING PERIOD	01-Aug-2016 to 31-Jul-2017

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates above and specify the new dates to which this Annual Return relates below:

REVISED REPORTING PERIOD / / to / /	
(Note: the revised reporting period also needs to be entered in Section H)	
	-

THIS ANNUAL RETURN MUST BE RECEIVED BY THE EPA BEFORE 30-Sep-2017

Your Annual Return must be completed, including certification in Section H, and submitted to the EPA no later than 60 Days after the end of the reporting period for your licence.

Failure to submit this Annual Return within 60 days after the reporting period ends may result in:

- the issue of a Penalty Notice for \$1500 (individuals) or \$3000 (corporations);
 OR
- prosecution.

Please send your completed Annual Return by Registered Post to:

Regulatory and Compliance Support Unit Environment Protection Authority PO Box A290 SYDNEY SOUTH NSW 1232

It is an offence to supply any information in this form to the EPA that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect.

THERE IS A MAXIMUM PENALTY OF \$250,000 FOR A CORPORATION OR \$120,000 FOR AN INDIVIDUAL.

Details provided in this Annual Return will be available on the EPA's Public Register in accordance with section 308 of the Protection of the Environment Operations Act 1997.

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Use the checklist below to ensure that you have completed your Annual Return correctly. (✓ the boxes)

	CHECKLIST						
	Section A:	All licence details are correct					
	□ Section B1: You have entered the correct number in the complaints table						
□ Section B2 – B3: If there are tables, you have provided the required details							
□ Section C: You have answered question 1, and 2 if applicable							
□ Section D: If applicable, you have completed all load calculation worksheets							
	Section E:	You have answered question 1, 2, 3, 4, 5 and 6 if applicable					
	Section F:	You have answered question 1, 2 and 3 if applicable					
	Section G:	You have answered question 1 and question 2, 3 and 4 or question 5 through to 11 if applicable					
□ Section H: The Annual Return has been signed by appropriate person(s) and, applicable, the revised reporting period entered							
	Make a copy of the	e completed Annual Return and keep it with your licence records					

Please send your completed Annual Return by Registered Post to:

Regulatory and Compliance Support Unit Environment Protection Authority PO Box A290 SYDNEY SOUTH NSW 1232

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A Statement of Compliance - Licence Details

ALL licence holders must check that the licence details in Section A are correct

If there are changes to any of these detailsyou must advise the EPA and apply as soon as possible for a variation to your licence or for a licence transfer.

Licence variation and transfer application forms are available on the EPA website at: http://www.epa.nsw.gov.au/licensing, or from regional offices of the EPA, or by contacting us on telephone 02 9995 5700.

If you are applying to vary or transfer your licence you must still complete this Annual Return.

A1 Licence Holder

Licence Number 11956

Licence Holder NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD

Trading Name (if applicable)

ABN 83 100 467 267

A2 Premises to which Licence Applies (if applicable)

Common Name (if any) NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD

Premises RACECOURSE ROAD RUTHERFORD NSW 2320

A3 Activities to which Licence Applies

Ceramic works

A4 Other Activities (if applicable)

A5 Fee-Based Activity Classifications

Note that the fee based activity classification is used to calculate the administrative fee.

Fee-based activity	Activity scale	Unit of measure
Ceramics production	> 50,000.00 - 200,000.00	T annual production capacity

A6 Assessable Pollutants (if applicable)

Note that the identification of assessable pollutants is used to calculate the load-based fee.

The following assessable pollutants are identified for the fee-based activity classifications in the licence:

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Ceramics production

Coarse Particulates (Air)
Fine Particulates (Air)
Fluoride (Air)
Nitrogen Oxides (Air)
Sulfur Oxides (Air)

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B Monitoring and Complaints Summary

B1 Number of Pollution Complaints

Number of complaints recorded	
If no complaints were received complete the table below.	Nil
Pollution Complaint Category	
Air	

	•
Air	
Water	
Noise	
Waste	
Other	

B2 Concentration Monitoring Summary

For each monitoring point identified in your licence complete all the details for each pollutant listed in the tables provided below.

If concentration monitoring is **not** required by your licence, **no tables** will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

Discharge & Monitoring Point 1

Discharge to Air, Dust extractor clay preparation CP1 & CP 2 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	

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Moisture content	percent	1	1	1.3	
Molecular weight of stack gases	grams per gram mole	1	1	28.8	
Solid Particles	milligrams per cubic metre	1	1	11	
Temperature	degrees Celsius	1	1	17.8	
Velocity	metres per second	1	1	16	
Volumetric flowrate	cubic metres per second	1	1	12	

Discharge & Monitoring Point 3

Discharge to air, Pressing and Drying PD1 & PD2 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		1.1	
Molecular weight of stack gases	grams per gram mole	1	1		28.8	
Solid Particles	milligrams per cubic metre	1	1		4.1	
Temperature	degrees Celsius	1	1		18.5	
Velocity	metres per second	1	1		14	
Volumetric flowrate	cubic metres per second	1	1		10	

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Discharge & Monitoring Point 5

Discharge to air, Drier D1 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		6.9	
Molecular weight of stack gases	grams per gram mole	1	1		28.9	
Solid Particles	milligrams per cubic metre	1	1		9.2	
Temperature	degrees Celsius	1	1		121	
Velocity	metres per second	1	1		10	
Volumetric flowrate	cubic metres per second	1	1		1.2	

Discharge & Monitoring Point 6

Discharge to air, Drier D2 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	samples	No. of samples you collected and analysed	Lowest sample value	l	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		9.6	
Molecular weight of stack gases	grams per gram mole	1	1		28.9	

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Solid Particles	milligrams per cubic metre	1	1	11	
Temperature	degrees Celsius	1	1	103	
Velocity	metres per second	1	1	11	
Volumetric flowrate	cubic metres per second	1	1	1.4	

Discharge & Monitoring Point 9

Discharge to air, Glaze line as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		2.0	
Molecular weight of stack gases	grams per gram mole	1	1		28.8	
Solid Particles	milligrams per cubic metre	1	1		6.5	
Temperature	degrees Celsius	1	1		18.5	
Velocity	metres per second	1	1		13	
Volumetric flowrate	cubic metres per second	1	1		9.6	

Discharge & Monitoring Point 10

Discharge to air, Selection SL 1234 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

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Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		1.8	
Molecular weight of stack gases	grams per gram mole	1	1		28.8	
Solid Particles	milligrams per cubic metre	1	1		8.5	
Temperature	degrees Celsius	1	1		30.4	
Velocity	metres per second	1	1		6.1	
Volumetric flowrate	cubic metres per second	1	1		1.0	

Discharge & Monitoring Point 12

Discharge to air, Spray Drier SD1 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		18.0	
Molecular weight of stack gases	grams per gram mole	1	1		29.0	
Solid Particles	milligrams per cubic metre	1	1		4.8	

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Temperature	degrees Celsius	1	1	85.3	
Velocity	metres per second	1	1	21	
Volumetric flowrate	cubic metres per second	1	1	20	

Discharge & Monitoring Point 14

Discharge to air, Kiln KP1 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Cadmium	milligrams per cubic metre	1	1		0.004	
Carbon dioxide	percent	1	3	1.7	2.3	2.8
Dry gas density	kilograms per cubic metre	1	3	1.29	1.30	1.30
Hazardous substances	milligrams per cubic metre	1	1		0.078	
Hydrogen fluoride	milligrams per cubic metre	1	1		9.7	
Mercury	milligrams per cubic metre	1	1		0.0008	
Moisture	percent	1	3	5.1	5.6	6.7
Molecular weight of stack gases	grams per gram mole	1	3	29.0	29.1	29.1
Nitrogen Oxides	milligrams per cubic metre	1	1		29	
Oxygen (O2)	percent	1	1		16.4	

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Solid Particles	milligrams per cubic metre	1	1		16	
Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	1	1		<70	
Velocity	metres per second	1	3	16	17	19
Volumetric flowrate	cubic metres per second	1	3	6.6	7.1	7.7

Discharge & Monitoring Point 15

Discharge to air, Kiln KP2 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Cadmium	milligrams per cubic metre	1	1		0.0011	
Carbon dioxide	percent	1	3	1.8	2.1	2.6
Dry gas density	kilograms per cubic metre	1	3	1.30	1.30	1.30
Hazardous substances	milligrams per cubic metre	1	1		0.052	
Hydrogen fluoride	milligrams per cubic metre	1	1		1.28	
Mercury	milligrams per cubic metre	1	1		0.00077	
Moisture	percent	1	3	3.1	4.5	6.9
Molecular weight of stack gases	grams per gram mole	1	3	29.0	29.0	29.1
Nitrogen Oxides	milligrams per cubic metre	1	1		48	

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Oxygen (O2)	percent	1	1		17.9	
Solid Particles	milligrams per cubic metre	1	1		13	
Sulfuric acid mist and sulfur trioxide (as SO3)	milligrams per cubic metre	1	1		34	
Velocity	metres per second	1	3	18	18.3	19
Volumetric flowrate	cubic metres per second	1	3	6.4	7.4	8.2

Discharge & Monitoring Point 18

Discharge to air, Hot air cooling HAC1 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		1.0	
Molecular weight of stack gases	grams per gram mole	1	1		28.8	
Solid Particles	milligrams per cubic metre	1	1		3.3	
Temperature	degrees Celsius	1	1		76.8	
Velocity	metres per second	1	1		33	
Volumetric flowrate	cubic metres per second	1	1		20	

Discharge & Monitoring Point 19

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Discharge to air, Hot air cooling HAC2 as shown on Figure Titled: Plant Emission Locations and Air Quality Controls dated 17 July 2003.

Pollutant	Unit of measure	No. of samples required by licence	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value
Dry gas density	kilograms per cubic metre	1	1		1.29	
Moisture content	percent	1	1		1.2	
Molecular weight of stack gases	grams per gram mole	1	1		28.8	
Solid Particles	milligrams per cubic metre	1	1		1.2	
Temperature	degrees Celsius	1	1		78.3	
Velocity	metres per second	1	1		22	
Volumetric flowrate	cubic metres per second	1	1		19	

Monitoring Point 22

Ambient Air Monitoring - PM 10, PM 10 monitoring locations as shown on diagram titled "Proposed ambient air quality monitoring sites - PM 10, HF and meteorological monitoring". Dated 20 January 2004

Pollutant	Unit of measure	samples required by	No. of samples you collected and analysed	Lowest sample value		Highest sample value	
PM10	micrograms	61	61	1.7	17.6	48.7	SE
	per cubic metre	61	61	3.5	27.2	88.6	NW

Monitoring Point 23

Ambient Air Monitoring - Fluoride compounds, HF monitoring locations as shown on diagram titled "Proposed ambient air quality monitoring sites - PM 10, HF and meteorological monitoring". Dated 20 January 2004.

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Pollutant	Unit of measure	No. o samp requi	les red by	No. of samples you collected and analysed	Lowest sample value	Mean of sample	Highest sample value	
Hydrogen fluoride	micrograms		61	61	0.06	0.29	2.18	24 hour
per cubic metre	'	SE	52	52	0.04	0.15	0.83	weekly
		NW	61	61	0.04	0.27	1.36	24 hour
	NV		52	52	<0.01	0.10	0.48	weekly

B3 Volume or Mass Monitoring Summary

For each monitoring point identified in your licence complete the details of the volume or mass monitoring indicated in the tables provided below.

If volume or mass monitoring is not required by your licence, no tables will appear below.

Note that this does not exclude the need to conduct appropriate concentration monitoring of assessable pollutants as required by load-based licensing (if applicable).

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C Statement of Compliance - Licence Conditions

	•	oxes)						
1	and	re all conditions of the licence complied with (including monitoring reporting requirements)?	Yes	⊠ No				
2		ou answered 'No' to question 1, please supply the following details for each no nat, or similar format, provided on the following page.	on -com	pliance in the				
	Ple	ase use a separate page for each licence condition that has not been complied	ed with.					
	a)	What was the specific licence condition that was not complied with?						
	b) What were the particulars of the non -compliance?							
	c) What were the date(s) when the non -compliance occurred, if applicable?							
	d) If relevant, what was the precise location where the non -compliance occurred?							
		Attach a map or diagram to the Statement to show the precise location.						
	e)	What were the registrati on numbers of any vehicles or the chassis number of involved in the non-compliance?	of any mo	obile plant				
	f)	What was the cause of the non-compliance?						
	g)	What action has been, or will be, taken to mitigate any adverse effects of the	e non -c	ompliance?				
	h)	What action has been, or will be, taken to prevent a recurrence of the non -	compliar	nce?				
3.	Eac	w many pages have you attached? The attached page must be initialled by the person(s) who signs Section for this Annual Return		Nil				

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C2 Details of Non-Compliance with Licence

Licence condition number not complied with

Condition L3.4, EPL point 14 and Condition L2.2

Summary of particulars of the non-compliance (NO MORE THAN 50 WORDS)

Condition L3.4 - Kiln 1 (EPL point 14) fluoride emissions of 9.7 mg/m³ exceeded limit of 5 mg/m³ Condition L2.2 - Fluoride mass emission of 2411 kg exceeded limit of 1850 kg

If required, further details on particulars of non-compliance

As a comparison, fluoride emission result for Kiln 2 (EPL Point 15) using the same source materials was 1.28 mg/m³. Department of Planning personnel were notified of non-compliance by telephone on receipt of laboratory analytical results.

Date(s) when the non-compliance occurred, if applicable

Annual testing date - 2 July 2017

If relevant, precise location where the non-compliance occurred (attach a map or diagram)

N/A

If applicable, registration numbers of any vehicles or the chassis number of any mobile plant involved in the non-compliance

N/A

Cause of non-compliance

Variability in process and monitoring results

Action taken or that will be taken to mitigate any adverse effects of the non-compliance

All weekly and 24 hour ambient fluoride monitoring to the north west and south east of the facility returned results below relevant ANZECC guideline values.

Action taken or that will be taken to prevent a recurrence of the non-compliance

Ongoing operational matters regarding this non-compliance include: monitoring of source material inputs; analytical composition assessment of raw materials; understanding the variability of emissions between Kilns 1 and 2 using the same source raw materials.

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D Statement of Compliance - Load-Based Fee Calculation Worksheets

If you are **not** required to monitor assessable pollutants by your licence, **no worksheets** will appear below. Please go to Section E.

If assessable pollutants have been identified on your licence (see licence condition L2), complete the following worksheets for each assessable pollutant to determine your load-based fee for the licence fee period to which this Annual Return relates.

Loads of assessable pollutants must be calculated using any of the methods provided in the EPA's Load Calculation Protocol for the relevant activity. A Load Calculation Protocol would have been sent to you with your licence. If you require additional copies you can download the Protocol from the EPA's website or you can contact us on telephone 02 9995 5700.

You are required to keep all records used to calculate licence fees for four years after the licence fee was paid or became payable, whichever is the later date.

PENALTIES APPLY FOR SUPPLYING FALSE OR MISLEADING INFORMATION Reporting loads of NOx (summer) and VOCs (summer) in the Sydney Basin

From 1 July 2007, all licensees in the Sydney Basin that have NOx and/or VOCs as an assessable pollutant must **also** report loads of these pollutants discharged over the summer period (December, January, February).

NOx and VOCs loads discharged over the relevant reporting period (e.g. 12 months) must be reported.

In addition, NOx (summer) and VOCs (summer) and Actual Quantity (summer) must be reported in the appropriate Load-Based Fee Calculation Worksheet to determine any fees payable.

Example: Fee Based Activity [17] Paint Production

Pollutant	Actual Quantity (T produced)	Fee Rate Threshold	Assessable load (kg)	Pollutant Weighting	Critical Zone weighting	Pollutant Fee
Benzene	16,400	3,832	1,800	740	1	\$4,895
NOx	16,400	42,573	12,440	9	7	\$2,880
NOx (summer)	4,100	42,573	3,110	9	28	\$2,880
PM10	16,400	70,955	3,241	125	1	\$1,489
VOCs	16,400	123,887	88,000	6.6	7	\$14,941
VOCs (summer)	3,500	123,887	22,000	6.6	28	\$14,941
		_			Total	\$42,026

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Coarse Particulates discharged to Air

D1 Pollutant Load

		а	ictual load (kg)	weight (kg		'agreed' load (kg)
Ceramics production			5800			
Actual Load						
If applicable, the method used to calcular (Method Numbers must be as per the Nanalysis of Air/Water Pollutants in NSW	ISW EPA's	s publication	"Approved Me		pling and Analysi	s and
Ceramics production	X	Source Mon	itoring (SM)	Type of SM	Р	M
				Method Number	er TM	1 15
		Emission Fa	actors (EF)	Type of EF		
		load resulte	ne assessable	stimation of the		Yes No
		Mass Balan	ce (MB)			
		Other EPA	Approved Meth	od		
Weight Load						
If applicable, the load weighting	measure	e used wa	S:			
Ceramics production			Effluent re-us	e on site		
			Effluent trans	fer beyond the nises	If so, where to?	
			Flow optimise	ed discharge		
Agreed Load						
If applicable, the agreed load use Ceramics production	ed was a			aroomon t	□ Rubble Lices	ce Arrangement
Ceramics production		∐ Loa	ad Reduction A	greement		ce Arrangement

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D2 Assessable Load (AL)

D3

D4

The assessable load for an activity is the smallest of actual, weighted or agreed loads. If you have

more than one fee-based activity classification the sum of the assessable loads of this sul	•	•	ur licence is
Assessable Load (AL) (kg)		5800	
Calculate Fee Rate Threshold (FRT)			
The Fee Rate Threshold is the amount of the licence fee period before the fee rate fincreases. E.g. If you are a Cement Producer and you fee period, your calculated FRT for coarse	for any further dischargou produced 500,000 to	ges of the assessable	pollutant
FRT = 500,000 tonnes procedured x 0.2 kg/tonne produced) = 115,000 kg	Actual quantity of activity (expressed in units of measure specified at A5)	se particulates is 0.23	calculated FRT
Ceramics production	80630	X 0.0850000	= 6854
If more than one activity, add calculated FRTs for expollutant	ach activity to obtain the to	tal FRT for the	FRT 6854
Apply Fee Rate Threshold			
Is the Assessable Load (D2) greater than	the Fee Rate Threshol	ld (D3)?	
☐ Yes, calculate AL1 below			
☑ No, go to D5			
2 x AL (D2) FRT	(D3)	AL1	
Calculate Pollutant Fee for Coarse Particu	lates discharged to A	Air	

D5

Calculation Factor, CF = [pollutant fee unit amount x pollutant weighting x critical zone] / 10,000 $= 47.05 \times 18 \times 1/10,000$

Assessable Load AL or AL1		Calculation Factor (CF)		Pollutant Fee (PF)	
5800	x	0.0846900	=	\$ 491.20	_

Copy Pollutant Fee (PF) for this assessable pollutant to the summary page at D6

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Fine Particulates discharged to Air

D1 Pollutant Load

		a	actual load (kg)	weight le (kg)		'agreed' load (kg)
Ceramics production			13028			
Actual Load						
If applicable, the method used to c (Method Numbers must be as per Analysis of Air/Water Pollutants in	the NSW EPA's p	publication	"Approved Me		oling and Analysis	s and
Ceramics production	X S	ource Mon	nitoring (SM)	Type of SM	Pl	М
				Method Number	OM	5
	□ E	mission Fa	actors (EF)	Type of EF		
	lo ai	oad resulte	culation method d in an underes he assessable	stimation of the		Yes No
	□ M	lass Balan	ce (MB)			
	 0	other EPA	Approved Meth	od		
Weight Load						
If applicable, the load weight	ting measure	used wa	s:			
Ceramics production			Effluent re-us	e on site		
			Effluent trans	fer beyond the nises	If so, where to?	
			Flow optimise	ed discharge		
Agreed Load						
If applicable, the agreed load	l used was ag			, -	.	
Ceramics production		Loa	ad Reduction A	greement L	■ Bubble Licen	ce Arrangement

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D2 Assessable Load (AL)

The assessable load for an activity is the smallest of actual, weighted or agreed loads. If you have more than one fee-based activity classification listed in D1, the assessable load for your licence is the sum of the assessable loads of this substance for each activity.

Assessable Load (AL) (kg) 13028

D3 Calculate Fee Rate Threshold (FRT)

The Fee Rate Threshold is the amount of an assessable pollutant that may be discharged during the licence fee period before the fee rate for any further discharges of the assessable pollutant increases.

E.g. If you are a Cement Producer and you produced 500,000 tonnes of cement during the licence fee period, your calculated FRT for coarse particulates is:

FRT = 500,000 tonnes procedured x 0.23 (FRT factor for coarse particulates is 0.23 kg/tonne produced)

= 115,000 kg

Actual quantity of activity (expressed in units of measure specified at A5)

calculated FRT

Ceramics production

80630

Χ

0.1100000

8869

If more than one activity, add calculated FRTs for each activity to obtain the total FRT for the pollutant

FRT 8869

D4 Apply Fee Rate Threshold

Is the Assessable Load (D2) greater than the Fee Rate Threshold (D3)?

- No, go to D5

2 x AL (D2) FRT (D3) AL1

26056 — 8869 — 17187

D5 Calculate Pollutant Fee for Fine Particulates discharged to Air

Calculation Factor, CF = [pollutant fee unit amount x pollutant weighting x critical zone] / 10,000

 $= 47.05 \times 125 \times 1/10,000$

Assessable Load Calculation Factor Pollutant Fee (PF)

17187 x 0.5881250 = \$ 10108.10

Copy Pollutant Fee (PF) for this assessable pollutant to the summary page at D6

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Fluoride discharged to Air

D1 Pollutant Load

	á	actual load (kg)	weight (kg		'agreed' load (kg)
Ceramics production		2411			
Actual Load					
If applicable, the method used to calculate the a (Method Numbers must be as per the NSW EPA Analysis of Air/Water Pollutants in NSW" referred	s publication	"Approved Me		ipling and Analys	is and
Ceramics production	Source Mor	nitoring (SM)	Type of SM	Р	M
			Method Number	er TN	<i>I</i> 9
	Emission Fa	actors (EF)	Type of EF		
	load resulte	culation methoded in an underesthe assessable [?	stimation of the	0	Yes No
	Mass Balan	nce (MB)			
	Other EPA	Approved Meth	od		
Weight Load					
If applicable, the load weighting measur	re used wa	s:			
Ceramics production		Effluent re-us	e on site		
		Effluent trans	fer beyond the nises	If so, where to?	
		Flow optimise	ed discharge		
Agreed Load If applicable, the agreed load used was	agreed und	der:			
Ceramics production		ad Reduction A	greement	☐ Bubble Licer	nce Arrangement

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D2 Assessable Load (AL)

The assessable load for an activity is the smallest of actual, weighted or agreed loads. If you have

	more than one fee-based activity classific the sum of the assessable loads of this su		•		able load for your	licenc	e is
	Assessable Load (AL) (kg)				2411		
D3	Calculate Fee Rate Threshold (FRT)						
	The Fee Rate Threshold is the amount of the licence fee period before the fee rate increases. E.g. If you are a Cement Producer and y fee period, your calculated FRT for coars	for any furf	ther discharge ed 500,000 to	es of	the assessable po	ollutani	t
	FRT = 500,000 tonnes procedured x 0.2 kg/tonne produced) = 115,000 kg	Actual quar	ctor for coarse atity of activity d in units of pecified at A5)	e par	ticulates is 0.23		calculated FRT
	Ceramics production	80	0630	X	0.1200000]=	9676
	If more than one activity, add calculated FRTs for a pollutant	each activity	to obtain the tota	al FR1	for the	FRT	9676
D4	Apply Fee Rate Threshold Is the Assessable Load (D2) greater than Yes, calculate AL1 below	the Fee R	ate Threshold	I (D3)?		
	No, go to D5						
	2 x AL (D2) FR	T (D3)	□ =		AL1]	
D5	Calculate Pollutant Fee for Fluoride disc	harged to	Air				

D

Calculation Factor, CF = [pollutant fee unit amount x pollutant weighting x critical zone] / 10,000 $= 47.05 \times 84 \times 1/10,000$

Assessable Load AL or AL1		Calculation Factor (CF)		Pollutant Fee (PF)
2411	x	0.3952200	=	\$ 952.88

Copy Pollutant Fee (PF) for this assessable pollutant to the summary page at D6

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Nitrogen Oxides discharged to Air

D1 Pollutant Load

		а	ctual load (kg)	weight I (kg)		'agreed' load (kg)
Ceramics production			19023			
Actual Load						
If applicable, the method used to calcu (Method Numbers must be as per the Analysis of Air/Water Pollutants in NS	NSW EPA's	publication	"Approved Me		oling and Analysis	s and
Ceramics production	X	Source Mon	itoring (SM)	Type of SM	Pl	М
				Method Number	- TM	11
		Emission Fa	ictors (EF)	Type of EF		
		load resulte	ne assessable	stimation of the		Yes No
		Mass Balan	ce (MB)			
		Other EPA	Approved Meth	od		
Weight Load						
If applicable, the load weighting	measure	e used was	s:			
Ceramics production			Effluent re-us	e on site		
			Effluent trans	fer beyond the nises	If so, where to?	
			Flow optimise	ed discharge		
Agreed Load						
If applicable, the agreed load us Ceramics production	sed was a			aroomont F	7 Bubblo Lices	ce Arrangement
Octamics production		∐ Loa	ad Reduction A	greement L		ce Anangement

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



D2 Assessable Load (AL)

The assessable load for an activity is the smallest of actual, weighted or agreed loads. If you have more than one fee-based activity classification listed in D1, the assessable load for your licence is the sum of the assessable loads of this substance for each activity.

Assessable Load (AL) (kg) 19023

D3 Calculate Fee Rate Threshold (FRT)

The Fee Rate Threshold is the amount of an assessable pollutant that may be discharged during the licence fee period before the fee rate for any further discharges of the assessable pollutant increases.

E.g. If you are a Cement Producer and you produced 500,000 tonnes of cement during the licence fee period, your calculated FRT for coarse particulates is:

FRT = 500,000 tonnes procedured x 0.23 (FRT factor for coarse particulates is 0.23 kg/tonne produced)

= 115,000 kg

Actual quantity of activity (expressed in units of measure specified at A5)

calculated FRT

Ceramics production

80630

0.2200000

Χ

17739

If more than one activity, add calculated FRTs for each activity to obtain the total FRT for the pollutant

FRT 17739

D4 Apply Fee Rate Threshold

Is the Assessable Load (D2) greater than the Fee Rate Threshold (D3)?

- No, go to D5

2 x AL (D2) FRT (D3) AL1

38046 — 17739 — 20307

D5 Calculate Pollutant Fee for Nitrogen Oxides discharged to Air

Calculation Factor, CF = [pollutant fee unit amount x pollutant weighting x critical zone] / 10,000

 $= 47.05 \times 9 \times 2/10,000$

Assessable Load Calculation Factor Pollutant Fee (PF)

20307 x 0.0846900 = \$ 1719.80

Copy Pollutant Fee (PF) for this assessable pollutant to the summary page at D6

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



Sulfur Oxides discharged to Air

D1 Pollutant Load

		а	ctual load (kg)	weight (kg)		'agreed' load (kg)
Ceramics production			14835			
Actual Load						
If applicable, the method used to calco (Method Numbers must be as per the Analysis of Air/Water Pollutants in NS	NSW EPA's	publication	"Approved Me		oling and Analysi	s and
Ceramics production	X	Source Mon	itoring (SM)	Type of SM	Р	М
				Method Numbe	r <u>T</u>	VI 3
		Emission Fa	ictors (EF)	Type of EF		
	 	load resulte	ne assessable	stimation of the		Yes No
		Mass Balan	ce (MB)			
		Other EPA	Approved Meth	od		
Weight Load						
If applicable, the load weighting	g measure	used was	S :			
Ceramics production			Effluent re-us	e on site		
			Effluent trans	fer beyond the nises	If so, where to?	
			Flow optimise	ed discharge		
Agreed Load						
If applicable, the agreed load us	sed was a				T Dukkie i i	A
Ceramics production		☐ Loa	ad Reduction A	greement t	■ Buddie Licen	ce Arrangement

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



D2 Assessable Load (AL)

The assessable load for an activity is the smallest of actual, weighted or agreed loads. If you have

	more than one fee-based activity classific the sum of the assessable loads of this s		· ·		le load for your	licence	e is
	Assessable Load (AL) (kg)			14	835		
D3	Calculate Fee Rate Threshold (FRT)						
	The Fee Rate Threshold is the amount of the licence fee period before the fee rate increases. E.g. If you are a Cement Producer and your calculated FRT for coarse.	for any fur	ther discharg	es of th	e assessable po	ollutant	:
	FRT = 500,000 tonnes procedured x 0. kg/tonne produced) = 115,000 kg	Actual quar	ctor for coars ntity of activity id in units of pecified at A5)	se partic	ulates is 0.23		calculated FRT
	Ceramics production	8	0630] x [0.5300000]=	42734
	If more than one activity, add calculated FRTs for pollutant	each activity	to obtain the to	tal FRT fo	or the	FRT	42734
D4	Apply Fee Rate Threshold Is the Assessable Load (D2) greater than ☐ Yes, calculate AL1 below ☐ No, go to D5	n the Fee R	ate Threshol	d (D3)?			
	2 x AL (D2) FF	RT (D3)	=		AL1]	

D5 Calculate Pollutant Fee for Sulfur Oxides discharged to Air

Calculation Factor, CF = [pollutant fee unit amount x pollutant weighting x critical zone] / 10,000 $= 47.05 \times 2.20 \times 1/10,000$

Assessable Load AL or AL1		Calculation Factor (CF)		Pollutant Fee (PF)	
14835	x	0.0103510	=	\$	153.56

Copy Pollutant Fee (PF) for this assessable pollutant to the summary page at D6

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D6 Load-Based Fee

Assessable pollutants	Pollutants fee from D5 for each pollutant
O P. (' . I I . (A')	** 404.00
Coarse Particulates (Air)	\$ 491.20
Fine Particulates (Air)	\$ 10108.10
Fluoride (Air)	\$ 952.88
Nitrogen Oxides (Air)	\$ 1719.80
Sulfur Oxides (Air)	\$ 153.56
Total of Assessable Pollutant Fees	\$ \$ 13425.54
Less the administrative fee you paid last year to cover this reporting period. This amount would have been paid at the beginning of the licence	\$ \$8125.00
period.	

NOTE: If you varied your licence during the reporting period and your administrative fee changed, enter the total administrative fee paid for the period. Please use your invoice for the upcoming reporting period which shows payment and the fee details for the last twelve months as a reference for determining your administrative fee. If you are unsure about the administrative fee you paid last year, please contact us on telephone 02 9995 5700.

Load-based Fee (if negative, write zero)	\$ \$530	0.54
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It is important to note that the load-based fee must <u>not</u> be paid at this time. A separate invoice for the load-based fee will be issued once the EPA receives the Annual Return and load data. This load-based fee must be submitted to the EPA by **90 days after 31-Jul-2017**

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



E Statement of Compliance - Requirement to Prepare Pollution Incident Response Management Plan (PIRMP) Under Section 153A of the POEO Act 1997

1 Have you prepared a PIRMP as re Act 1997?	equired under s153A of the Protection of	the Environment	Operations
(✓ a box)		■ Yes	□No
If you answered 'Yes' to question 1, pl	ease tick the appropriate box to indicate	the following:	
2 Is the PIRMP available at the prer	nises?		
(✓ a box)		■ Yes	□No
3 Is the PIRMP available in a promi	nent position on a publicly accessible we	b site?	
(✓ a box)		□ Yes	□No
If the PIRMP is available on a publicly web site where the PIRMP can be acc	accessible web site please indicate clea essed:	rly below the add	ress of the
Web site Address			
4 Has the PIRMP been tested in th	e last 12 months?		
(✓ a box)		□ Yes	□No
If you answered 'Yes' to question 4 please indicate clearly below the date that the PIRMP was last tested:			
The PIRMP was last tested on	//		
5 Has the PIRMP been updated?			
(✓ a box)		■ Yes	□No
If you answered 'Yes' to question 5 ple	ase indicate clearly below the date that	the PIRMP was la	ast updated:
The PIRMP was last updated on	//		
6 How many times has the PIRMP	been activated in this reporting period?		
If the PIRMP has been activated, plea-	se indicate clearly below the date/s wher	the PIRMP was	activated:
The PIRMP was activated on	//		

The EPA's guidelines for preparation of pollution incident response management plans are available at http://www.epa.nsw.gov.au/legislation/20120227egpreppirmp.htm

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



F Statement of Compliance - Requirement to Publish Pollution Monitoring Data Under Section 66(6) of the POEO Act 1997

	(✓ a box)	□ Yes	□No	
If you answered 'Yes' to question 1, please tick the appropriate box to indicate the following:				
2	Do you operate a web site?			
	(✓ a box)	□ Yes	□No	
3 Is the pollution monitoring data published on your web site in accordance with the EPA's written requirements for publishing pollution monitoring data?				
	(✓ a box)	□ Yes	□No	
If you publish pollution monitoring data on a web site please indicate clearly below the address of the web site where the pollution monitoring data can be accessed:				
	eb site address			
W	The EPA's written requirements for publishing pollution monitoring data are available at http://www.epa.nsw.gov.au/legislation/20120263reqpubpmdata.htm			

pollution, to any person requests a copy of the data at no charge to the person requesting the data.

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NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



G Statement of Compliance - Environmental Management Systems and Practices

1	Do you have an environmental management system (EMS) certified to ISO 14 demonstrated equivalent system¹? (see note below on demonstrated equivalent		Г	
	(✓ a box)	■ Yes	□No	
-	your answer to question 1 is 'No', please proceed to question 5. If your answer to oceed to question 2.	o question 1 is 'Y	'es', please	
2	When was the last check of the EMS ² completed (see note below on check of	f EMS)?	_//	
3	Were there any non-conformances related to environmental issues identified	in the last check	of the EMS?	
	(✓ a box)	□ Yes	□No	
4	If there were non-conformances identified, were these non-conformances rec	tified?		
	(✓ a box)	□ Yes	□No	
ple sy	you answered 'No' to question 1, please answer questions 5 - 11. If you answer ease proceed to section H. Questions 5-11 relate to any documented environmentems in place. Refer to http://www.epa.nsw.gov.au/licensing/EMCP.htm for guitestions 5 to 11. If unsure of the answer, tick No.	ental practices, p	rocedures and	
5	Have you conducted an assessment of your activities and operations to identif potential to cause environmental impacts and implemented operational control	•		
	(✓ a box)	■ Yes	□No	
6	Have you established and implemented an operational maintenance program, maintenance?	including preven	ntative	
	(✓ a box)	■ Yes	□No	
7	Do you keep records of regular inspections and maintenance of plant and equi	pment?		
	(✓ a box)	■ Yes	□No	
8 Do you conduct regular site audits to assess compliance with environmental legal requirements and assess conformance to the requirements of any documented environmental practices, procedures and systems in place?				
	(✓ a box)	■ Yes	□No	
9	Are the audits of documented environmental practices, procedures and system party?	ns undertaken by	y a third	
	(✓ a box)	■ Yes	□No	
10	Have you established and implemented an environmental improvement or man	agement plan?		
	(✓ a box)	□ Yes	□No	
11	Do you train staff in environmental issues that may arise from your activities an of this	d operations and	d keep records	
	(✓ a box)	□ Yes	□No	

http://www.epa.nsw.gov.au/resources/licensing/150402-environmental-management-systems-guidelines.pdf

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¹ Demonstrated equivalent refers to an environmental management system that the EPA considers is equivalent to the accountability, procedures, documentation and record keeping requirements of an ISO 14001 system. For further information go to:

² Undertaking a 'check of an EMS' refers to the ISO 14001 requirements that an organisation demonstrates conformity to the requirements of its EMS and to the standard, these checks require third-party certification that requirements have been met.

NATIONAL CERAMIC INDUSTRIES AUSTRALIA PTY LTD



H Signature and Certification

This Annual Return may only be signed by a person(s) with legal authority to sign it as set out in the categories below. Please tick (\checkmark) the box next to the category that describes how this Annual Return is being signed.

If you are uncertain about who is entitled to sign or which category to tick, please contact us on telephone 02 9995 5700.

If the licence holder is:	the Annual Return must be signed and certified by one of the following:
an individual	 the individual licence holder, or a person acting on behalf of the individual licence holder in accordance with a power of attorney for the individual. A copy of the power of attorney must be submitted with the Annual Return.
a company	 by two directors, or by a director and a company secretary, or if a proprietary company that has a sole director who is also the sole company secretary - by that director, or by a person delegated to sign a copy of the Annual Return on the company's behalf in accordance with the Corporations Act 2001. Delegation of authority must be submitted with the Annual Return, or. by affixing the common seal, in accordance with the Corporations Act 2001
a public authority other than a Council	by the Chief Executive Officer of the public authority, or by a person delegated to sign on the public authority's behalf in accordance with its legislation.
a local Council	 by the General Manager in accordance with s377 of the Local Government Act 1993, or by affixing the seal of the Council in a manner authorised under the Local Government Act 1993.

It is an offence to supply any information in this form that is false or misleading in a material respect, or to certify a statement that is false or misleading in a material respect. There is a maximum penalty of \$250,000 for a corporation or \$120,000 for an individual.

I/We

- declare that the information in the Monitoring and Complaints Summary in section B of this Annual Return is correct and not false or misleading in a material respect, and
- certify that the information in the Statement of Compliance in sections A, C, D, E, F and G and any
 pages attached to Section C is correct and not false or misleading in a material respect.

If your licence has been transferred, suspended, surrendered or revoked by the EPA during this reporting period, cross out the dates below and specify the new dates to which this Annual Return relates below:			
For the reporting period 01-Aug-2016 to 31-Jul-2017 or/ to/ to/			
SIGNATURE:	SIGNATURE:		
NAME: (printed)	NAME: (printed)		
POSITION:	POSITION:		
DATE:/	DATE:		

SEAL(if signing under seal)

PLEASE ENSURE THAT ALL APPROPRIATE BOXES HAVE BEEN COMPLETED AND THAT THE CHECKLIST ON PAGE 2 OF THE ANNUAL RETURN HAS BEEN COMPLETED

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