(Regulations 5 and 7)

The Natural Resources Conservation Authority (Air Quality) Regulations

Air Pollutant Discharge Licence Application

To be completed as follows:

- Applications for a licence to discharge air pollutants
 (licence) must be submitted by owners or operators of existing
 major and significant facilities as specified in the Regulations.
- 2. Applications for licence renewals must be submitted not later than six months prior to the expiration date.
- 3. Owners or operators of proposed major or significant facilities or who propose to make major modifications to existing facilities must submit an application for a licence no later than six months prior to commencement of operation.

The completed licence application form must be submitted to:

National Environment and Planning Agency

Re: Air Pollutant Discharge Licence Application 10 Caledonia Avenue,

Kingston 10.

1. APPLICATION FOR:	YES	NO	DATE OF RECEIPT:	//
INITIAL LICENCE	?	?		(yyyy/mm/dd)
MODIFICATION OF EXISTING LICENCE	?	?		
CHANGE OF OPERATOR	?	?	COMPLETION DATE	//
RENEWAL OF LICENCE	?	?		//_ (yyyy/mm/dd)
APPLICATION FEE ENCLOSED	?		APPLICATION FEE ENCLOSED	

(Shaded areas above to be completed by NEPA staff)

GENERAL OPERATOR AND PLANT INFORMATION

2. Company's legal r	name and address
Company name:	
Company mailing	
address line 1:	
Company mailing	
address line 2:	

Company mailing		
address line 3:		
Company Phone No.:	()
Company Fax No.:	()
Company email		
address:		

3. Operator's name a	and address
Operator's name:	
Operator's mailing address Linel:	
Operator's mailing address Line2:	
Operator's mailing address Line3:	
Operator's Phone no.:	()
Operator's Fax	()
Operator's email address:	

4. Plant name and a	ddre	ess	
Plant name:			
Plant mailing address Line 1:			
Plant mailing			
address Line 2:			
Plant mailing			
address Line 3:			
Plant Phone no.:	()	
Plant FAX no.:	()	
Electronic mail			
address:			
5. Company contact	for	environmental	issues:
Contact name:			

Title:				
Phone no.:	()		
FAX no.:	()		
Electronic mail				
address:				

6. Plant History				
Began operating on	(Use yyyy/mm/dd			
(mm/yyyy)	format)			
Previous plant name 1:	Date of name change 1:			
Previous plant name 2:	Date of name change 2:			
Previous plant name 3:	Date of name change 3:			
Previous plant name 4:	Date of name change 4:			
Previous plant name 5:	Date of name change 5:			

7. Current permits issued by the Authority
Identify all required Permits to Operate
for this and any other plants operated.
Use yyyy/mm/dd format for dates
#Date/
Date/

8. Current air pollutant discharge licence(s)

Identify all current required Air Pollutant

Discharge

Licences for this and any other plants operated.

yyyy/mm/dd	dd/mm/yyy				
# DATE GRANTED:	//				
EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
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EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
# DATE GRANTED:	//				
EXPIRY DATE://					
Category of air pollutant source for this facility (Mark with X):					
Electricity generation					
Mineral Industries					
Petroleum Refineries					
Municipal incinerators					
Biomedical incinerators					
Hazardous waste incinerators					
Chemical Processing					
Inorganic Chemicals Manufacturing					
Organic Chemicals Manufacturing					
Liquids Distribution - Petroleum Products					
Non-Ferrous Metals Processing					
Ferrous Metals Processing Polymers And Resins Production					
Food And Agricultural Processes					
Agricultural Chemicals Production					
Surface Coating Processes					
Waste Management					
Fuel Combustion in any of the above categories					
including Stationary Fuel Combustion					
Sources					

Other industry categories as may from time to time be prescribed by the Authority

- 9. General and non-confidential description of plant activities:
- 10. International System for Industrial
 Classification (ISIC) Codes (Four digit code(s))
 (See Instructions):

ISIC1 ____ Description
ISIC2 ____ Description
ISIC3 ____ Description
ISIC4 ___ Description

11. Plant Boundaries

Attach scale map showing plant boundaries, one reference point and the orientation of this point to one prominent feature within the plant property. (Attach as Appendix A to this licence application).

PROCESS INFORMATION

12. Confidential information content.

Does this section of the application require confidential information to be provided? ? Yes ? No

If yes, mark those processes (item 13) claimed confidential and submit diagrams and descriptions required in items 13 and/or 14 under separate cover.

13. List of processes at the plant. (List all processes and their corresponding Source Classification Code. Indicate whether or not any confidential process information will be included. For any process claimed to contain confidential information, provide

- justification for the claim. Provide any confidential information under separate cover as Appendix B, Item 13).
- 14. Process flow diagrams. Provide diagrams of each process or air emission unit at the plant to include air flow rates and other applicable information. Provide a description of the process and a companion flow diagram for each process. Identify points by number, where raw materials are introduced, where air contaminants may be discharged, the general operation of the process, and pollution control equipment used to eliminate or reduce emissions of air contaminants. (Attach as Appendix C):

Detailed process/equipment
description (Process
description and process
and pollution control
equipment information).
(Attach as Appendix D)

Each process description
must include:

- ? Process/Equipmentspecific form(s) if applicable as identified in the instructions
- ? Process Source
 Classification Code
 (SCC) description
- ? Process ID# (same as on diagram in 14) and SCC code
- ? Fuels and their use
- ? Equipment used in process
- ? Description of product(s) including all that can be used to estimates emissions
- ? Raw materials used including all that can be used to estimates emissions
- ? Operating schedules
- ? Description of changes
 to process (if
 applicable)
- ? Pollution control
 equipment
- ? Nominal (rated) and actual (if available) control efficiency of pollution control equipment
- ? Pollutants emitted
- ? Method used for calculation of emission rate

- ? All calculations,
 including
 conversion
 factors as
 appropriate, to
 support the
 emissions data
 above
- ? Description of any operational constraints or work practices imposed that limit the amount of regulated or Priority Air Pollutants.
- ? List and
 describe any
 fugitive and
 smaller
 sources.
 (Attach as
 Appendix E)

ENERGY, FUELS USE AND PRODUCTION INFORMATION								
15. Fuel		Use metric units only (litres, cubic metres,						
informat	cion*	kg, et	kg, etc.)					
Fuel Type	Associ -ated SCC	Maxi- mum hourly use	Annual use	Heat content	% Sulphur	% Ash	Density	
Heavy fuel oil (No. 5 or 6)								
Heavy fuel oil (No.								
5 or 6)								
(Low Vanadium)								
Coal								
LPG								
Kerosene								
Marine Diesel								
Auto- diesel**								
Gasoline (un- leaded)**								
Gasoline (leaded)**								
Bagasse								
Fuel wood								
Charcoal								
Other (specify)								
Other (specify)								
Other (specify)								

Electrical Energy Use, Energy From Renewable Sources and Energy Conservation, Pollution Prevention and Community Activities

Energy from non-fuel sources	
Electrical energy use (MWh)	
Total electrical energy	
purchased	
Total electrical energy sold	
Energy from renewable sources	
(MWh)	

 $^{^{}st}$ Electrical energy use, energy from renewable sources and energy conservation, pollution

prevention and community activities.

** Shall not include fuels used for on-road (public road) transportation, but shall include fuels used for off road (e.g., agricultural, mining use).

Wind	
Solar	
Other (specify for each type)	
Other	
Other	
Provide a description of energy	conservation activities (see air
quality guideline document):	
Provide a description of pollut	ion prevention activities (see
air quality guideline document)	:
Provide a description of commun	ity activities relevant to
pollution prevention, energy con	nservation or emissions
reduction:	

16. Raw Mater	ials (use meti	ric units only	•)	
Raw Material	Maximum hourly use	Annual average use	How stored	How moved
17. Products				
Product	Maximum hourly production	Average annual production	How stored	How shipped

SUMMARY OF SOURCE AND MAXIMUM PLANT CAPACITY EMISSION INFORMATION

18. Regulated Air Pollutant Sources (Add similar pages as need for additional sources)

	Source
	name & ID#
Associated process ID(s)	
Type of source (point, area)	
Location JIGN or JMGN or UTMN	
(specify which)*	
Location JIGE or JMGE or UTME	
(specify which)*	
Stack height from ground (m)	
Stack height above building (m)	
Stack elevation at base of stack	
(above sea level) (m)	
Number of flues	
Internal flue diameter (m)	
Exit velocity (m/s)	
Exit temperature (°C)	
Exit flow rate m ³ /s	
Exit percent moisture(%)	
Area source length (m)	
Area source width (m)	
Area source direction the long	
axis is offset from north-south	

Pollutant -TSP or PM ₁₀	PM	PM	PM	PM	PM	PM
Emission rate - maximum hourly						
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate - maximum annual						
(tonne/y)						
Pollutant	SO_x	SO_x	SO_x	SO_x	SO_x	SO_x
Emission rate maximum hourly						
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate maximum annual						
(tonnes per year)						
Pollutant (NOx as NO2)	NOx	NOx	NOx	NOx	NOx	NOx
Emission rate maximum hourly						

	T	1	1	1	T	1
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate maximum annual						
(tonnes per year)						
Pollutant	CO	СО	CO	CO	CO	CO
Emission rate - maximum hourly						
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate - maximum annual						
(tonnes per year)						
Pollutant	VOC	VOC	VOC	VOC	VOC	VOC
Emission rate - maximum hourly						
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate - maximum annual						
(tonnes per year)						
Pollutant	Pb	Pb	Pb	Pb	Pb	Pb
Emission rate - maximum hourly						
(g/s)						
Emission rate - average hourly						
(g/s)						
Emission rate - maximum annual						
(tonnes per year)						

19. Summary of Greenhouse Gas Emissions

	Gre	enhou	ise ga	ases	
Annual Emissions from Renewable fuels					
Annual Emissions from non- renewable fuels					
Annual Emissions from other processes (tonnes per year)					
Pollutant					
Annual Emissions from Renewable fuels					
Annual Emissions from non- renewable fuels					
Annual Emissions from other processes (tonnes per year)					

20. Summary of Regulated Air Pollutant Emission Information During Maximum Capacity Operation

	SO_x	PM	PM ₁₀	NOx NO ₂	as	CO	VOC	Pb
Maximum hourly								
emission rates for								
each pollutant (based								
on plant operating								
capacity) (kg/h)								
Maximum annual								
emission rates for								
each pollutant (based on plant operating								
capacity) (tonnes per								
year)								
Anticipated average								
daily emissions for								
each pollutant								
(tonnes per day)								
Traticipated approx 7								
Anticipated annual emissions for each								
pollutant (tonnes per								
year)								

SUMMARY OF SOURCE AND MAXIMUM PLANT CAPACITY EMISSION INFORMATION

21. Priority Air Pollutant Sources (Complete for all new sources or modification to existing sources or if required by a licence condition or control order in the case of existing sources)

	T T		1	
Source name				
Source ID#				
Associated process ID(s)				
Type of source (point, area)				
Location JIGN/JMGN/UTMN (specify				
which)*				
Location JIGE/JMGE/UTME (specify				
which)*				
Stack height from ground (m)				
Stack height above building (m)				
Stack elevation at base of stack				
(above sea level) (m)				
Number of flues				
Internal flue diameter (m)				
Exit velocity (m/s)				
Exit temperature (°C)				
Exit flow rate m ³ /s				
Exit percent moisture				
Area source length (m)				
		-		

Area source width (m)		
Area source direction the long		
axis is offset from north-south		
Pollutant CAS		
Emission rate - maximum hourly		
(g/s)		
Emission rate - Average hourly		
(g/s)		
Emission rate - maximum annual		
(tonne/y)		
Pollutant CAS		
Emission rate - maximum hourly		
(g/s)		
Emission rate - average hourly		
(g/s)		
Emission rate - maximum annual		
(tonne/y)		
Pollutant CAS		
Emission rate - maximum hourly		
(g/s)		
Emission rate - average hourly		
(g/s)		
Emission rate - maximum annual		
(tonne/y)		
Pollutant CAS		
Emission rate - maximum hourly		
(g/s)		
Emission rate - average hourly		
(g/s)		
Emission rate - maximum annual		
(tonne/y)		
Pollutant CAS		
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(g/s)		
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(g/s)		
Emission rate - maximum annual		
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(g/s)		
Emission rate - average hourly		
(g/s)		

Emission rate - maximum annual	
(tonne/y)	
Pollutant CAS	
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Emission rate - maximum annual	
(tonne/y)	
Pollutant CAS	
Emission rate - maximum hourly	
(g/s)	
Emission rate - average hourly	
(g/s)	
Emission rate - maximum annual	
(tonne/y)	
Pollutant CAS	
Emission rate - maximum hourly	
(g/s)	
Emission rate - average hourly	
(g/s)	
Emission rate - maximum annual	
(tonnes per year)	

22. Summary of Priority Air Pollutant Emissions during Maximum Capacity Operation

(Indicate pollutants using CAS number as column headings for columns

2, 3 and 4 and name in each row with pollutant in column 1. Add similar pages to this one as may be needed for additional pollutants)

	CAS	CAS	CAS
	#	#	#
Pollutant			
Maximum hourly emission rates for each			
pollutant (based on plant operating			
capacity) (kg/h)			
Maximum annual emission rates for each			
pollutant (based on plant operating			
capacity) (tonnes per year)			
Anticipated average daily emissions for			
each pollutant (tonnes per day)			
Anticipated annual emissions for each			
pollutant (tonnes per year)			
Pollutant			

pollutant (based on plant operating capacity) (kg/h) Maximum annual emission rates for each pollutant (based on plant operating capacity) (tonnes per year) Anticipated average daily emissions for each pollutant (tonnes per day) Anticipated annual emissions for each pollutant (tonnes per year) Pollutant Maximum hourly emission rates for each pollutant (based on plant operating capacity) (kg/h) Maximum annual emission rates for each pollutant (based on plant operating capacity) (tonnes per year) Anticipated average daily emissions for each pollutant (tonnes per day) Anticipated annual emission for each pollutant (tonnes per year) Pollutant Maximum hourly emission rates for each pollutant (based on plant operating capacity) (kg/h) Maximum annual emission rates for each pollutant (based on plant operating capacity) (kg/h) Maximum annual emission rates for each pollutant (based on plant operating capacity) (tonnes per year) Anticipated average daily emissions for each pollutant (based on plant operating capacity) (tonnes per year) Anticipated average daily emissions for each pollutant (tonnes per day) Anticipated annual emissions for each pollutant (tonnes per day) Anticipated annual emissions for each pollutant (tonnes per year)	Maximum hourly emission rates for each		
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each pollutant (tonnes per day) Anticipated annual emissions for each	capacity) (tonnes per year)		
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	each pollutant (tonnes per day)		
pollutant (tonnes per year)	Anticipated annual emissions for each		
	pollutant (tonnes per year)		

Locations of all point and area sources of air pollutants Site plan of plant drawn to scale to include locations of all point source emission units. Indicate ID# for each source.

(Attach as Appendix F):

- 23. Plan diagrams for buildings. Provide diagrams showing plan (overhead) view of buildings containing stacks and structures within 5 times the building height or five times the maximum building width (which ever is less) of each point source (stack).
- 24. Elevation diagrams. Provide diagrams showing elevation

(side) view of buildings containing and structures within 5 times the building height or five times the maximum building width (which ever is less) of each point source (stack).

25. In the case of a major facilities only: Describe air pollutant emissions during maintenance, start-up and shutdown operations.

Source name

Source ID#

Associated process ID(s)

Description of maintenance activity/operation

Typical schedule for maintenance (number per year)

Typical duration of each maintenance event (hours)

Total number of maintenance hours/year

Maximum hourly emission rates for each pollutant

Annual emissions during maintenance for each pollutant

Typical schedule for start-up/shut-down (number per year)

Typical duration of each start-up/shut-down event (hours)

Total number of start-up/shut-down hours/year

Maximum hourly emission rates for each pollutant during

start-up/shut-down

Annual emissions during start-up/shut-down for each pollutant

26. Summary of dispersion calculations and/or air quality assessments

(Provide Air quality assessment report under separate cover.)

MONITORING INFORMATION

27. Compliance emission monitoring devices. List all compliance emission monitoring devices and activities and the associated title test methods.

(Attach as Appendix G)

28. Compliance ambient monitoring. List all compliance ambient monitoring activities and the associated monitoring methods.

(Include with Appendix G)

APPLICABLE MONITORING AND REPORTING REQUIREMENTS

29. Stack testing data

Provide description of stack sampling facilities

List for each stack, the stack ID, pollutant measured,

measured emission rate, AP42 emission factor, emission target

or emission standard, whether or not stack is in compliance

with standard or target

Attach stack sampling reports

30. Ambient monitoring

List for each ambient monitoring station, the pollutant(s) monitored, monitoring method(s), frequency of monitoring, number of exceedances of ambient air quality standards during the ambient air quality assessment period (new plants or first licence application for existing plants) plants or since the licence was granted (renewals)

Attach air quality assessment report or summary of monitoring report for the first 4 years of the current licence period

- 31. Summary of areas not in compliance with stack emission standards or targets or with ambient air quality standards List the sources/processes not in compliance with emission targets or standards or ambient monitors at which any ambient standard has been exceeded in the previous 5 years.
- 32. Compliance Plan (Attach as Appendix H)
 Complete this only if any areas were indicated as not in
 compliance in item 30 or if a control order has been issued
 by the Authority or if a compliance plan has been required as
 a condition of a licence. As indicated in the regulations,
 the compliance plan must include the following:
 - ? Description of compliance status with respect to all applicable requirements.
 - ? A statement that source will continue to comply with all requirements with which the source is in compliance.
 - ? A statement that source will comply with any requirement that becomes effective during term of licence.
 - ? For requirements not being complied with, a detailed narrative description of how you will achieve compliance.
- 33. Compliance Schedule (Include with compliance plan, Appendix H)

Schedule must include the following statements:

- ? A schedule of remedial measures that will bring into compliance with any requirement not being met.
- ? A schedule for submission of certified progress reports at least every 6 months for sources out of compliance.
- 34. Include a certification of compliance with all applicable requirements as outlined in the Compliance Plan (Appendix H) and attach this certification at the end of Appendix H.
 - ? Include a statement of the methods used for determining compliance, to include a description of:

- ? Monitoring
- ? Record keeping
- ? Reporting requirements
- ? Test methods
- ? Include a schedule for submission of compliance certifications during the permit term to be submitted annually or as specified by the applicable requirement.
- ? Include a statement indicating the compliance status with any applicable enhanced monitoring and compliance certification requirements of the act.

CERTIFICATION

35. Certification
I hereby certify that to the best of my knowledge, the
information and data submitted in and with this
application are true, accurate and complete.
Operator's Signature:
Title:

Date:	

Operator's Name (Typed or printed)

[&]quot;JIG" means Jamaica Imperial Grid

"JMG" means Jamaica Metric Grid