



OAQ PROCESS INFORMATION APPLICATION
PI-18: Mineral Processing
 State Form 52559 (R2 / 1-10)
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

IDEM – Office of Air Quality – Permits Branch
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NOTES:

- The purpose of this form is to obtain detailed information about non-metallic mineral processes such as sand and gravel processes, stone quarries, stone processing plants, and slag and kish handing plants. Complete one form for each process material, and duplicate this form as necessary for additional process materials. This is a required form.
- Detailed instructions for this form are available on the Air Permit Application Forms website.
- All information submitted to IDEM will be made available to the public unless it is submitted under a claim of confidentiality. Claims of confidentiality must be made at the time the information is submitted to IDEM, and must follow the requirements set out in 326 IAC 17.1-4-1. Failure to follow these requirements exactly will result in your information becoming a public record, available for anyone to inspect and photocopy.

PART A: Mineral Process Information

Part A identifies the details pertaining to the mineral processing equipment, including conveyors, screens, crushers, etc.

1. Type of Process Material:		<input type="checkbox"/> Non-Metallic Minerals		<input type="checkbox"/> Metallic Minerals		
2. Equipment / Process Unit	3. Number of Identical Units	4. Unit ID	5. Installation Date	6. Open / Enclosed?	7. Maximum Capacity (tons/hr)	8. Actual Capacity (tons/hr)
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		
				<input type="checkbox"/> Open <input type="checkbox"/> Enclosed		

PART B: Dryer Details

Part B identifies the details pertaining to the dryer.

9. Dryer Type:	10. Unit ID	11. Installation Date	12. Plate Perforation Diameter / Mesh Size (inches or mm)	13. Volume Capacity (ft³)	14. Heat Capacity (mmBtu/hr)	15. Fuel Used
						<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Other – Attach PI-02F
						<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Other – Attach PI-02F
						<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Other – Attach PI-02F
						<input type="checkbox"/> Natural Gas Only <input type="checkbox"/> Other – Attach PI-02F

PART C: Storage and Handling of Materials

Part C identifies the details pertaining to aggregate storage and handling.

16. Material Size & Specification	17. Type of Storage	18. Storage Capacity (tons)	19. Unit ID	20. Installation Date	21. Storage Open or Totally Enclosed/ Covered?
					<input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Covered
					<input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Covered
					<input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Covered
					<input type="checkbox"/> Open <input type="checkbox"/> Enclosed <input type="checkbox"/> Covered

PART D: Emission Factors

Part D identifies all emission factors used to calculate air emissions from the process units listed on this form. Use the PI-02 forms to provide the applicable information for the dryers.

22. Process Unit (& ID, if applicable)	23. Air Pollutant	24. Emission Factor		25. Source of Emission Factor (if not using AP-42, include calculations)
		value	units	
	PM			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	PM-10			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	NO _x			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	CO			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	Metals			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	Organics			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	Other (specify):			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other
	Other (specify):			<input type="checkbox"/> AP-42 <input type="checkbox"/> Other

This space was intentionally left blank.

PART E: Emission Controls and Limitations

Part E identifies the control technologies, techniques, and other process limitations corresponding to each process. Use the PI-02 forms to provide the applicable information for the dryers.

26. Add-On Control Technology: *Identify all control technologies used for this unit, and attach completed CE-01 (unless "none").*

Storage	Handling
<input type="checkbox"/> None <input type="checkbox"/> Baghouse / Fabric Filter – <i>Attach CE-02.</i> <input type="checkbox"/> Cyclone – <i>Attach CE-03.</i> <input type="checkbox"/> Electrostatic Precipitator – <i>Attach CE-04.</i> <input type="checkbox"/> Other (<i>specify</i>): _____ <i>Attach CE-10.</i>	<input type="checkbox"/> None <input type="checkbox"/> Baghouse / Fabric Filter – <i>Attach CE-02.</i> <input type="checkbox"/> Cyclone – <i>Attach CE-03.</i> <input type="checkbox"/> Electrostatic Precipitator – <i>Attach CE-04.</i> <input type="checkbox"/> Other (<i>specify</i>): _____ <i>Attach CE-10.</i>

27. Control Techniques: *Identify all control techniques used for this process.*

Storage	Handling

28. Process Limitations / Additional Information:

Identify any acceptable process limitations. Attach additional information if necessary.

Storage	Handling

PART F: Federal Rule Applicability

Part F identifies any federal rules that apply to the process. Use the PI-02 forms to provide the applicable information for the dryers.

29. Is a New Source Performance Standard (NSPS) applicable to this source?

Yes No

If yes, attach a completed FED-01 for each rule that applies.

<input type="checkbox"/> 40 CFR Part 60, Subpart OOO	Non-Metallic Mineral Processing Plants
<input type="checkbox"/> 40 CFR Part 60, Subpart UUU	Calciners and Dryers in Mineral Industries
<input type="checkbox"/> 40 CFR Part 60, Subpart _____	(Specify)

30. Is a National Emission Standard for Hazardous Air Pollutants (NESHAP) applicable to this source? *If yes, attach a completed FED-01 for each rule that applies.*

Yes No

<input type="checkbox"/> 40 CFR Part 61, Subpart _____	(Specify)
<input type="checkbox"/> 40 CFR Part 63, Subpart _____	(Specify)

31. Non-Applicability Determination: Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.

Provide an explanation if the process unit appears subject to a rule (based on the rule title or the source category), but the rule will not apply.
