



## RICE NESHAP Applicability Guide – Area Sources of HAP

*Area sources of HAP emissions are sources that are not major sources*

	Non-Emergency CI				Emergency CI
	Non-Emergency CI <100 HP	Non-Emergency CI 100<HP<300	Non-Emergency CI 300<HP<500	Non-Emergency CI > 500 HP	Emergency CI All HP
<b>Emission Levels</b> (Except during periods of startup)	N/A	N/A	49 ppmvd CO at 15% O2 or 70% CO reduction	23 ppmvd CO at 15% O2 or 70% CO reduction	N/A
<b>Requires Low Sulfur Diesel?</b>	No	No	Yes, if cylinder displacement is less than 30 liters/cylinder	Yes, if cylinder displacement is less than 30 liters/cylinder	
<b>Work Practice Standard</b>	<ol style="list-style-type: none"> <li>1. Change oil and filter every 1000 hours of operation, or annually, whichever comes first.</li> <li>2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first.</li> <li>3. Inspect all hoses and belts every 500 hours of operator or annually, whichever comes first, replace as necessary.</li> </ol>	<ol style="list-style-type: none"> <li>1. Change oil and filter every 1000 hours of operation, or annually, whichever comes first.</li> <li>2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first.</li> <li>3. Inspect all hoses and belts every 500 hours of operator or annually, whichever comes first, replace as necessary.</li> </ol>	N/A	N/A	<ol style="list-style-type: none"> <li>1. Change oil and filter every 500 hours of operation, or annually, whichever comes first.</li> <li>2. Inspect air cleaner every 1000 hours of operation or annually, whichever comes first.</li> <li>3. Inspect all hoses and belts every 500 hours of operator or annually, whichever comes first, replace as necessary.</li> </ol>
<b>Metallic HAP Reduction</b>	N/A	N/A	<p>If not equipped with a closed crankcase ventilation system:</p> <ol style="list-style-type: none"> <li>a. Install a closed ventilation system that prevents crankcase emissions from being emitted to the atmosphere.</li> <li>b. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates and metals.</li> </ol>	<p>If not equipped with a closed crankcase ventilation system:</p> <ol style="list-style-type: none"> <li>a. Install a closed ventilation system that prevents crankcase emissions from being emitted to the atmosphere.</li> <li>b. Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.</li> </ol>	N/A

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<b>Operating Limitations</b>	N/A	N/A	Follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters.	<ol style="list-style-type: none"> <li>1. Must maintain the oxidation catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water from the pressure drop across the catalyst that was measured during the initial performance test.</li> <li>2. Must maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is between 450 and 1350 °F.</li> <li>3. Follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters.</li> </ol>	N/A
<b>Start-up Requirements</b>	Minimize idle time and engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	Minimize idle time and engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	Minimize idle time and engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	Minimize idle time and engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.	Minimize idle time and engine's startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
<b>Demonstrating Compliance</b>	Must maintain the stationary RICE and after treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan – Do not have to conduct any performance testing.	N/A	Must conduct an initial performance test to demonstrate that the unit achieves the required emission standards.	<ol style="list-style-type: none"> <li>1. Must conduct an initial performance test.</li> <li>2. Must test every 8760 hours of operation or 3 years (5 years for limited use), whichever comes first, to demonstrate that the unit achieves the required emission standards.</li> <li>3. Must continuously monitor and record the catalyst inlet temperature if an oxidation catalyst is being used on the engine. The pressure drop across the catalyst must also be measured monthly.</li> <li>4. If an oxidation catalyst is not being used on the engine, the owner or operator must continuously monitor and record the operating parameters (if any) approved by the Administrator. (Currently there are no performance specifications for the continuous parametric monitoring systems (CPMS) that are required for continuously monitoring the catalyst inlet temperature - will be in August 2010 ruling).</li> </ol>	Must maintain the stationary RICE and after treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan – Do not have to conduct any performance testing.

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<b>Reporting Requirements</b>	None.	Must submit all of the applicable notifications as listed in the NESHAP General provisions, including an initial notification, notification of performance test, and a notification of compliance for each stationary RICE which must comply with the specified emission limitations.	<ol style="list-style-type: none"> <li>1. Keep records that show that management practices that are required are being met, including oil and filter change dates and corresponding hour on the hour meter; inspection and replacement dates for air cleaners, hoses, and belts, and records of other emission-related repairs and maintenance performed.</li> <li>2. Keep records of the manufacturer's recommended maintenance procedures for the closed crankcase ventilation system or open crankcase filtration system and records of the maintenance performed on the system.</li> <li>3. Must submit all of the applicable notifications as listed in the NESHAP General provisions, including an initial notification, notification of performance test, and a notification of compliance for each stationary RICE which must comply with the specified emission limitations.</li> </ol>	<ol style="list-style-type: none"> <li>1. Keep records that show that management practices that are required are being met, including oil and filter change dates and corresponding hour on the hour meter; inspection and replacement dates for air cleaners, hoses, and belts, and records of other emission-related repairs and maintenance performed.</li> <li>2. Keep records of the manufacturer's recommended maintenance procedures for the closed crankcase ventilation system or open crankcase filtration system and records of the maintenance performed on the system.</li> <li>3. Must submit all of the applicable notifications as listed in the NESHAP General provisions, including an initial notification, notification of performance test, and a notification of compliance for each stationary RICE which must comply with the specified emission limitations.</li> </ol>	<ol style="list-style-type: none"> <li>1. Keep records of hours of operation.</li> <li>2. Install a non-resettable hour meter.</li> <li>3. Maintenance checks and readiness testing are limited to 100 hours per year.</li> <li>4. Keep documentation for reason for emergency use, so it won't count toward maintenance and readiness testing hours.</li> <li>5. May operate for non-emergency purposes for 50 hours per year, but counts towards 100 hours for operation other than true emergencies.</li> <li>6. Non-emergency purpose operating can not be for generating income, for example to supply power to an electric grid or supply power as part of a financial arrangement to another entity.</li> <li>7. May operate the emergency engine for a maximum of 15 hours per year a part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout</li> <li>8. The above 15 hours of operation counts toward the 50 hours of non-emergency use.</li> </ol>

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