 <b>SARNIA REFINERY</b>	<b>SO<sub>2</sub> GROUND LEVEL CONCENTRATION – Response to a LIMA/ LISA</b>		
	<b>Department:</b> Sarnia Refinery Operations		
	<b>Document Owner:</b> Director, Operations		<b>Document Contact:</b> Environmental Advisor
<b>Document Number:</b> 4000-ZGN-OMOENVSA-038063	<b>Issue Date:</b> 03/25/2015	<b>Revision Number:</b> 0	<b>Next Review Date:</b> 12/25/2019

<b>Purpose and Scope:</b>	This Routine describes the steps to take if an environmental LIMA or LISA is called into the Refinery.
<b>Personal Protective Equipment (PPE) Required:</b>	Normal mandatory PPE for working in process areas required. Additional PPE may be required as per Refinery Standards and applicable Material Safety Data Sheets (MSDS).
<b>References:</b>	O. Reg.350 – Lambton Industry Meteorological Alert

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**ROUTINE INSTRUCTION**

**CAUTION**

**This is an environmental document.**  
**LIMA:** Lambton Industry Meteorological Alert  
**LISA:** Lambton Industrial Society Advisory

**Notification of LISA/LIMA:**

1. Security receives phone call from Canadian ORTECH Environmental Inc. providing notification of the LISA or LIMA.
2. Security notes the details of the notification including:
  - Date and time of the call
  - Name of caller
  - Whether the notification is a LISA or LIMA
3. Security notifies the on duty Shift Supervisor and EH&S and informs them of the notification details.

**Response to a LISA/LIMA:**

4. The following steps are required by the Shift Supervisor in the event that a LIMA or LISA is called into the refinery:
  - Operations must review all plant operating conditions to ensure determine if everything is at a steady state – this could include:
    - Operation of all heaters to ensure normal operations and no reason for generation of excess SO<sub>2</sub> emissions such as burning of heavy fuel oil or heater operation upset,
    - Review the operation of the Sulfur plant to ensure normal operations and that the incinerator SO<sub>2</sub> analyzer is reading what is considered routine SO<sub>2</sub> emissions (<200ppm SO<sub>2</sub>),
    - Review any other systems that have potential for SO<sub>2</sub> or H<sub>2</sub>S emissions
5. Request operations to take any actions available to reduce SO<sub>2</sub> emissions if anything outside normal operations is identified. At this point, no rate cuts are expected and would be at the discretion of site leadership if they choose to cut unit feed rates to lower SO<sub>2</sub> emissions.
6. Shift supervisor to advise EH&S air advisor of any findings and to provide a return call to Ortech indicating what was found and if any actions have been taken.

**NOTE**

If SO<sub>2</sub> dispersion modeling is required, a third party (usually Lehder Environmental) would need to be called to run the Aermom model (current MOE compliance model). This would be done post-event to facilitate collection of the required data in order to run the model.

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**CHANGES / UPDATES**

Are any changes/updates required?  YES  NO


Changes/updates required may be written within the procedure itself or in this section.

All comments **MUST** include operator name and review date (mm/dd/yy).

Name:

Date:

**END OF ROUTINE**

		<b><u>REVISION LOG</u></b>		
Date MM/DD/YYYY	Revision	Section	Comment	Editor
02/10/2015	0	All	Updated to remove reference to the old LIMA model (no longer the compliance model) and to update what plant operations need to be reviewed.	J. Ward
07/16/2015			Added 4000#	D. MacDonald