


**TEXAS COMMISSION ON ENVIRONMENTAL QUALITY**
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## Emission Event Reporting Database

<b>Regulated entity name</b>	VALERO REFINING HOUSTON REFINERY	<b>Physical location</b>	9701 MANCHESTER AVE
<b>Regulated entity RN number</b>	RN100219310	<b>City, County</b>	HOUSTON, HARRIS
<b>Type(s) of air emissions event:</b>	EMISSIONS EVENT	<b>Event began:</b>	08/04/2008 7:07AM
<b>This is based on the:</b>	FINAL REPORT	<b>Event ended:</b>	08/04/2008 11:07AM
<b>Cause</b>	On 8/04/2008, at approximately 7:00 am, a sulfur product storage tank, failed near the dome roof and tank wall interface (dome rim). The failure resulted in a small smoldering fire and release of a mixture of sulfur, sulfur oxides and H2S emissions to the atmosphere. Additional emissions occurred from an incinerator unit during isolation of the affected facility following the initial tank event. The investigation is currently ongoing to determine the cause of the failure.		
<b>Action taken</b>	The Plant Emergency Response Plan was immediately activated. A fire water monitor was applied to the effected equipment to help dissipate sulfur oxide emissions. Further operational adjustments were made to help minimize impacts of the release to the immediate community.		
<b>Emissions estimation method</b>	Emissions estimates are based on standard engineering calculations used in the refinery.		

**Source 1: Complex I Alkyl Unit, FIN number**

**Source 2: TGI - B Stack, EPN number 46CB6301**

Contaminant	Authorization	Limit	Amount Released

Hydrogen Sulfide	2507A	0.6 LBS/HR	5.0 lbs (est.)
Nitrogen dioxide	2507A	6.71 LBS/HR	1.0 lbs (est.)
Sulfur dioxide	2507A	237.57 LBS/HR	125.6 lbs (est.)

**Source 3: TGI-B - Tail Gas Incinerator (46RX6206), FIN number 46RX6206**

**Source 4: Tank 1001 (SRU / Akyl), EPN number SRU / Akyl area**

Contaminant	Authorization	Limit	Amount Released
Carbon Monoxide	2507A	0.0	1.0 lbs (est.)
Hydrogen Sulfide	2507A	0.0	24.0 lbs (est.)
Nitrogen dioxide	2507A	0.0	1.0 lbs (est.)
Sulfur dioxide	2507A	0.0	3461.0 lbs (est.)

**Source 5: Tank 1001 - Sulfur Product Storage Tank (39FB1001), FIN number 39FB1001**

**No other sources**

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## Emission Event Reporting Database

<b>Regulated entity name</b>	BP PRODUCTS NORTH AMERICA	<b>Physical location</b>	2401 5TH AVE S, TEXAS CITY, TX 77590
<b>Regulated entity RN number</b>	RN102535077	<b>City, County</b>	TEXAS CITY, GALVESTON
<b>Type(s) of air emissions event:</b>	EMISSIONS EVENT	<b>Event began:</b>	03/02/2009 2:57AM
<b>This is based on the:</b>	FINAL REPORT	<b>Event ended:</b>	03/07/2009 11:57AM
<b>Cause</b>	<p>On March 1, 2009 at approximately 9:00 am D SCOT Tail Gas Unit inline burner shutdown when water was carried over from a sulfur condenser in the D Sulfur Unit. SRU operation personnel were able control the emissions until 3/2/2009. The water carry over consequently caused D SCOT to become upset and the D Sulfur Unit unable to process Acid Gas from the refinery. The C Sulfur Unit sustained operations and continued to process Acid Gas from the refinery. Efforts were made to reduce SO<sub>2</sub> emissions, including implementation of sulfur shed scenarios at the refinery. Additional problems associated with original event resulted in a brief outage of D SCOT. Updates of the event were communicated on a daily basis to the local, federal and state agencies. The site conducted air monitoring at the refinery and in neighboring areas checking for detectable levels of H<sub>2</sub>S and SO<sub>2</sub>. Neither air contaminates were recorded at ground level. Incident # 120742 is related to this event, an investigation is currently progressing.</p>		
<b>Action taken</b>	<p>Operation personnel throughout the refinery took all necessary precautions to reduce H<sub>2</sub>S production. Some of these precautions included shutting down some units and reducing the amount of crude oil being brought into the refinery. Repair plans were immediately made and put in place to bring D SCOT back online.</p>		
<b>Emissions estimation</b>	CEMS analyzer data and engineering calculations.		

<b>method</b>
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### Source 1: SRU Incinerator, EPN number 384

Contaminant	Authorization	Limit	Amount Released
Carbon Monoxide	Permit 47256	2748.91 LBS/HR	95.0 lbs (est.)
Nitrogen Oxides	Permit 47256	2385.37 LBS/HR	11.0 lbs (est.)
Sulfur dioxide	Permit 47256	4139.91 LBS/HR	103602.0 lbs (est.)

### Source 2: Sulfur Recovery Unit (SRU), FIN number

### Source 3: Sulfur Recovery Unit Incinerator, FIN number SRU-F8CD

### No other sources

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