

06/20/2013

Air Products Performance Mfg., Inc.
Reserve Plant
474 W. 19th Street
Reserve, LA 70084-6807
Tel 985-536-4576

June 20, 2013



AIH 26003
T149093
S13-28867
BLRO
Malcolm Andry

RECEIVED
JUN 25 2013
DEQ
Single Point of Contact

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

NATIONAL RESPONSE CENTER
c/o United States Coast Guard (CG-5335) - Stop 7581
2100 2nd Street, SW
Washington, DC 20593-0001

RE: UNAUTHORIZED DISCHARGE NOTIFICATION REPORT
AIR PRODUCTS PERFORMANCE MANUFACTURING, Inc.
LSP REFERENCE # 13-02630
ST. JOHN the BAPTIST PARISH - LEPC REFERENCE # 20013-15050
NATIONAL RESPONSE CENTER REFERENCE # 1051077

To Whom it May Concern:

This letter is being submitted to your office as required by LAC 33:I.3925 and LAC 33:V.10111.H by Air Products Performance Manufacturing, Inc. (APPM), Reserve, Louisiana, 70084 as the follow-up written notification to a release that occurred at our facility on 06/13/2013.

On June 13, 2013 at 15:45 Damian Pedescleaux of APPM provided verbal notification to St John the Baptist LEPC, Louisiana Department of Public Safety and Corrections, and Louisiana Department of Environmental Quality, and at a later time to National Response Center of a release of propylene oxide (CAS # 75-56-9) from a leaking block valve on the propylene oxide trailer unloading system located at our Reserve facility.

At approximately 12:20 pm, the Reserve plant control systems alerted the control board operator of a high scrubber temperature condition. The board operator followed procedure by monitoring the scrubber for increasing temperatures. At approximately 12:35 pm, the Reserve plant control system alerted the control board operator of high- high temperature condition for the scrubber system. The board operator responded by shutting down operations in a controlled manner after which he began field inspections of the scrubber system and oxide systems.

Upon further investigation, the operator identified a block valve for the propylene oxide unloading system not fully closed allowing propylene oxide to backflow through the low pressure vent line to scrubber. The block valve was manually closed and propylene oxide flow to scrubber was stopped.

Initial evaluation determined that a block valve pneumatic actuator malfunctioned allowing propylene oxide to flow through the low pressure vent to the scrubber.

Immediate corrective action included:

- Activation of plant EOC and shutdown of oxide movement
- Valve closure of the propylene oxide unloading block valve
- N2 blowback of lines to propylene oxide storage tank
- Maintenance work request submitted for actuator and valve replacement.

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Long term planned corrective action:

- Schedule a root cause analysis of incident to identify long term corrective actions intended to prevent re-occurrence
- Ensure maintenance replaces block valve and actuator
- Follow up with maintenance to ensure preventative maintenance is performed on block valve
- Review other valves and actuators in oxide service for same issue

Based on subsequent review of available process data APPM has determined that 1,300 lbs of propylene oxide was released to air. Release calculation estimates are attached. The reportable quantity for propylene oxide is 100 lbs.

The release point is subject to a permit.

APPM is the current operator/owner of the facility.

There were no injuries associated with this event.

If you have any question concerning this information, please contact Mr. Jim Joubert at (985) 351-3457.

Sincerely,



Artis Williams, Site Manager
Air Products Performance Manufacturing, Inc.

Cc: Louisiana Department of Environmental Quality
Office of Environmental Compliance,
Emergency and Radiological Services Division,
Single Point of Contact (SPOC)
602 N. Fifth Street
Baton Rouge, LA 70802

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Calculation of PO Release	DSK	6/20/2013
Amount of PO offloaded based on scale ticket	29640	lb
Tank weight at start of unloading	13475	lb
Tank weight after incident was stopped	41346	lb
Change in tank weight	27871	lb
Amount of PO sent to scrubber	1769	lb
Initial scrubber height	49	in
Final scrubber height	55	in
Change in scrubber height	6	inches
Inside diameter of scrubber	59	inches
Volume increase in scrubber	71	gal
Density of water	8.33	lb/gal
Density of Propylene Glycol	8.646	lb/gal
Average density of water/glycol mixture	8.488	lb/gal
Mass of propylene glycol accumulated	603	lb
Ratio of mass of PO to Mass of PG	0.763	pounds of PO reacted per pounds of PG produced
Mass of PO Reacted	460	lb
Amount of PO released to air from Scrubber	1309	lb



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Uniform Hazardous Materials Reporting Form

MAIL TO: LSP/TESS/RTK Unit
 P. O. Box 66168
 Baton Rouge, LA 70896

Incident # 13-02630

Parish: St. John the Baptist

Date / Time
 Notified: 6/13/13 / 1610

Caller's Name: Damien Pedescleaux

Occurred: 6/13/13 / 1103

Ended: 6/13/13 / 1300

Caller's Employer: Air Products & Chemicals, Inc.

Caller's Phone Number: 985 536-4576

Incident Location: 474 West 19th Street Reserve

Address	City	Range	Township	Section
30-04-10	R6E	90-34-40	T11S	33
Latitude		Longitude		

Company/Responsible Party: Air Products Performance Manufacturing, Inc.

Name	City	State	Zip Code
474 West 19th Street	Reserve	La	70084
Address	City	State	Zip Code

Chemical Involved: propylene oxide Qty: 1309 RQ: 100

Hazard Class: flammable gas UN#: UN1280 EHS Solid Liquid Gas

Unusual Event Site Emergency General Emergency

Did material go offsite? Yes No Release to: Land Water Air

Any off-site protective action? Yes No Road Closure Shelter Evacuation

Wind Direction: NW Fire: Y N

Wind Speed: 5 Explosion: Y N

Temperature: 95 Injuries: Y N #

Precipitation: None Rain Other Fatalities: Y N #

Other Agencies Notified: St. John LEPC(# 201315050) NRC(# 1051077) LaDPS(# 13-02630)

Details:

The Facility had a release to air of 1309 lbs of propylene oxide as a result of a failed control valve actuator on a liquid propylene oxide line.