

Chemical Safety and Hazard Investigation Board

OFFICE OF GENERAL COUNSEL

Memorandum

To: Board Members

From: Richard C. Loeb

Cc: Leadership Team Mark Kaszniak Christina Morgan

Subject: Board Action Report - Notation Item 2013-31

Date: April 29, 2013

On April 10, 2013, the Board approved Notation Item 2013-31, thereby designating Recommendation 2010-06-I-WV-R14, to E. I. du Pont de Nemours and Company (from the DuPont Belle Investigation), with the status of Closed – Acceptable Action.

Voting Summary – Notation Item 2013-31

Disposition: APPROVED

Disposition date: April 10, 2013

	Approve	Disapprove	Calendar	Not Participating	Date
R. Moure-Eraso	X				4/10/2013
M. Griffon	Х				4/19/2013
B. Rosenberg	X				4/10/2013



U. S. Chemical Safety and Hazard Investigation Board RECOMMENDATIONS STATUS CHANGE SUMMARY

Report:	DuPont Corporation Toxic Chemical Releases	
Recommendation Number:	2010-6-I-WV-R14	
Date Issued:	October 17, 2011	
Recipient:	E. I. du Pont de Nemours and Company (DuPont)	
New Status:	R14: Closed – Acceptable Action	
Date of Status Change:	April 10, 2013	

Recommendation Text:

Reevaluate and clarify the DuPont corporate MOC policies to ensure that staff can properly identify and use the distinctions between subtle and full changes and train appropriate personnel how to properly apply the distinctions on any changes in the policy.

Board Status Change Decision:

A. Rationale for Recommendation

On January 22 and 23, 2010, three accidents occurred over a 33-hour period at the DuPont Corporation's Belle, West Virginia, chemical plant. The series of accidents began when an alarm sounded, leading operators to discover that 2,000 pounds of methyl chloride, a toxic and extremely flammable gas, had been leaking unnoticed into the atmosphere for five days. The next morning, workers discovered a leak in a pipe carrying oleum, which produced a fuming cloud of sulfur trioxide, also a toxic gas. A release of highly toxic phosgene occurred later that day, exposing a worker who died the following evening in a hospital.

The CSB investigation concluded that incomplete management of change (MOC) reviews on the rupture disc burst sensors contributed to the methyl chloride release. CSB also found that no MOC review was conducted following changes to the site's computerized maintenance software, which had failed to generate the necessary work order to change the phosgene flex hose that ruptured, causing the release that caused the fatality.

While investigating these three incidents, the CSB also reviewed E. I. du Pont de Nemours and Company (DuPont) corporate policies pertaining to MOC requirements in its process safety management program. The CSB found that the MOC policies required more comprehensive reviews for "full" changes and less comprehensive reviews for "subtle" changes, but did not make clear to personnel how to differentiate between a "full" and a "subtle" change. The CSB issued a recommendation to address the lack of clarity of this distinction.

B. Response to the Recommendation

In late 2011, DuPont revised the management of change requirements contained in its process safety management program to include expanded criteria for differentiating between the two types of management of change analyses and when each should be applied. By the end of 2012, DuPont reported that management of change training and the associated challenge to verify understanding had been completed by 8240 individual employees at all U.S. manufacturing locations.

C. Board Analysis and Decision

As the actions reported by DuPont address all the elements contained in CSB Recommendation No. 2010-6-I-WV-R14, its status was changed to: "Closed-Acceptable Action."