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Process Safety Performance Indicators within Rhodia : a worldwide process



Rhodia's Experience since 2009

• 3 TYPES OF PERFORMANCE INDICATORS :

- **N°1 : Process Safety position requirements with 4 MACROTASKS (1 indicator)**
 - Conduct PHAs as a guarantor (40% of FTE)
 - Get Safeguards audits for each site
 - Write Learning lesson letters from accidents (at least 2 per year)
 - Be part of MOCs as a risk analyst (40% of FTE)
- ▶ **In order to be part of the Process Safety family (DRC corporate procedure) : about 40 peoples**

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• 3 TYPES OF PERFORMANCE INDICATORS (cont'):

• N°2 : RHODIA RED LINES (2 indicators)

- Risk Analysis schedule : a 5 year-based review on P&IDs
- Risk sheets level 1 or 2 “c” mitigation done with the support of experts (SIS/ dispersion modelling/ATEX/dust or vapour explosion/methods)

• N°3 : FEED BACK (3 indicators)

- Accident report : a monthly report system on C, H, M, L severity accidents
- Controls on risk management : plant/production/maintenance
- Audits on safeguards: operability of safeguards

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- **A GOVERNANCE TOOL :**

- **The Dashboard is used in all zones (66 plants):**
 - **Under the supervision of Industrial Directors for each GBUs**
- **Frequent Update :**
 - **Once/month**
- **A control loop:**
 - **Presentation during Industrial Directors Meetings : benchmarking**
 - **Dashboard communicated to more than 1400 peoples (10% of total employees)**

Process Safety Dashboard updated November 2011 – GBU Novecare

Process Safety Dashboard

Perimeter :

Rhodia WW

Date

November-11

Process:

Process Safety Dashboard

① PS engineer job definition	② Risk analysis indicator - R1& R2Cd sheets		③ Feedback		
Implementation of macro-tasks (running total for the last 12 months)	Less than 5 years risk analysis based on P&ID (Current year)	Level 1 & 2 Cd Risk sheets (Current year)	Process accidents (previous year + current year for C & H, current year for M & L)	Allianz tests	Safeguard audits (current year)
All macro-tasks in the job definition have been performed	The annual risk analysis schedule is followed and a 5-year schedule exists	No level 1 or 2 Cd risk sheets	No severity C, H or M accidents and reporting system exists for level L (at least 5% of number of P&IDs)	No non acceptable items identified by the test, or all non acceptable items have been solved if the test has been done more than 1 year ago	No non acceptable situations as defined in DRC 11-40 section 3
Implementations available on some macro-tasks	The annual schedule is not followed to (within 10%)	Level 1 or 2Cd risk sheets less than 1 year	No severity C or H accidents but severity M accident or lack of sufficient level L reporting	All non acceptable items have been solved. Color will remain orange until 1 year after the test	One or more non acceptable situations not leading to level 1 or 2 C risk sheets
No macro-tasks other than risk analysis	A 5-year schedule for P&ID-based analysis has not been drawn up or 0% done/planned for the ended quarter	Level 1 or 2Cd risk sheets older than 1 year	Severity C or H accident within the current or previous year	At least, one non acceptable item not solved at the date	One or more non acceptable situations leading to a level 1 or 2C risk sheets

NC

Not concerned

ND

No data

No reporting

Zone	Entities	GBU	Country	Macro-tasks realization	Less than 5-years risk analysis (based on P&ID) <i>Current year</i>	Level 1 & 2 Cd risk sheets	Process accidents	Allianz Tests	Safeguard audits
EU	Clamecy	Novecare	France					ND	
	Melle	Novecare	France					0% (0/1)	
	Halifax	Novecare	Great Britain					ND	
	Leeds	Novecare	Great Britain	Closed	closed	closed	closed	ND	Closed
	Oldbury	Novecare	Great Britain					0% (0/3)	
	Ospiate	Novecare	Italy					ND	planned
LA	Santo Andre Novecare	Novecare	Brazil					ND	
NA	Baltimore	Novecare	USA					ND	No audit planned
	Blue Island	Novecare	USA					ND	No audit planned
	Charleston	Novecare	USA						No audit planned
	Chicago University Park	Novecare	USA		new site - underprogress			ND	No audit planned
	Marcus Hook	Novecare	USA					ND	No audit planned
	Spartanburg	Novecare	USA						
	Vernon	Novecare	USA					ND	No audit planned
	Winder	Novecare	USA					ND	No audit planned
AP	Bangpoo Novecare	Novecare	Thailand					ND	No audit planned
	Beijing	Novecare	China					ND	No audit planned
	Levin	Novecare	New Zealand					ND	No audit planned
	Roha	Novecare	India					100% (6/6)	No audit planned
	Zhangjiagang Hengchang	Novecare	China					100% (2/2)	
	Zhangjiagang Feixiang	Novecare	China	ND	No data (new acquisition)	ND		ND	ND
	Zhenjiang Novecare (+ ex Wuxi Novecare)	Novecare	China					ND	No audit planned



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THANK YOU FOR YOUR ATTENTION.

QUESTIONS ?