



AUSTIN POWDER
INTERNATIONAL

1953
2013



60 YEARS
OF INDUSTRIAL DETONATOR
PRODUCTION IN VSETÍN

A SYSTEM FOR REPORTING OF EVENTS

2013-12-12

Austin Detonator s.r.o.
Vsetín / Czech Republic

INTRODUCTION

Location:

Austin Detonator
plant

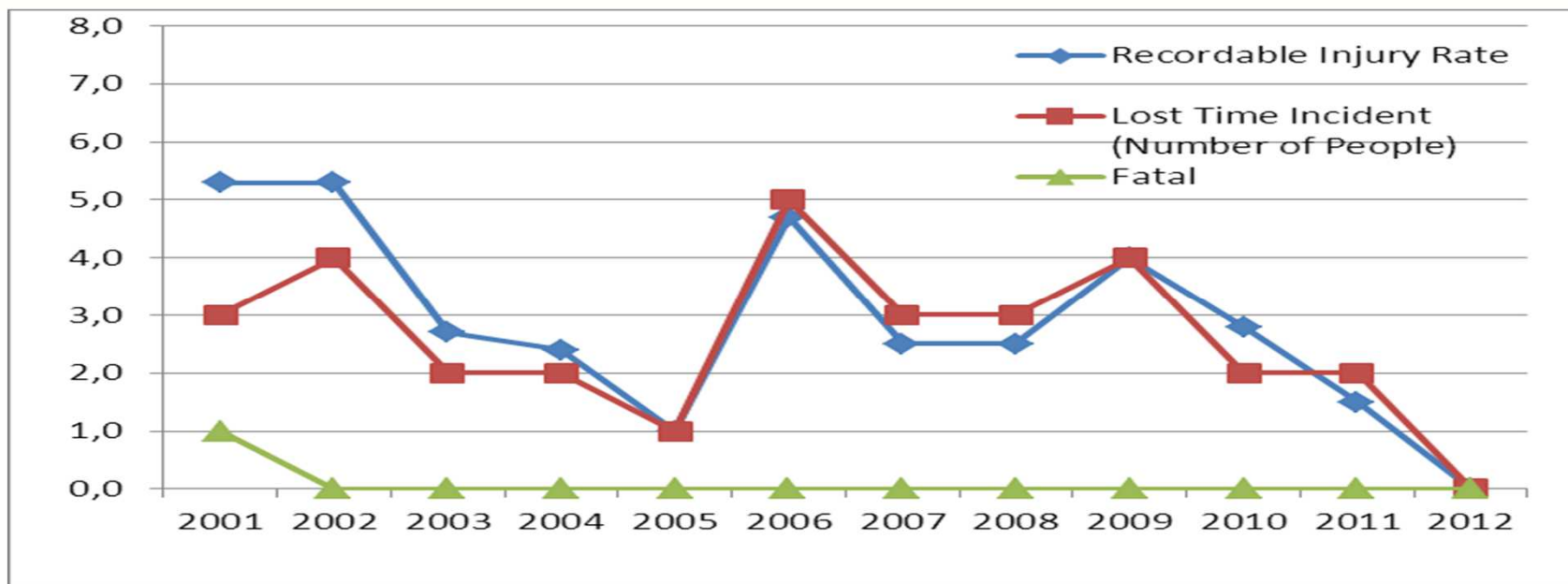
Vsetin

Czech Republic



The recordable injury rate (RIR, based on the number of Lost Time Incidents) has been the only key performance indicator (KPI) to measure safety performance and to benchmark vs the industry for many years in AD.

Recordable Injury rate (RIR)	The number of recordable injuries (fatalities + lost time injuries) per 1,000,000 hours worked.
Lost time incident	A lost time incident is one which results in death or permanent impairment or which renders the injured person unable to work on any day after the day of the injury



Recordable injury rate, Number of lost time incidents and fatalities from 2001 to 2012



MILESTONES

2001 FATAL INCIDENT

(lead styphnate, explosion)

a strong psychological effect on the entire workforce (behavior)

2006 5x LTI

(handling with explosives)

improvements were made during 2006 as a result of the deterioration



LTI in all LTI



14 (45%) lost time incidents in 31 lost time incident related to handling with explosives

NON-INJURY INCIDENTS

2011

- API significantly updated its safety reporting policy**

- Two internal training sessions**
 - **Licence to Supervise Training**
 - **Incident Investigation Training**



CLASSIFICATION of NON-INJURY INCIDENTS

- Explosion or flare/flame event**
- TRE – Technology Related Event (“minor” explosion or flare/flame)**
- Near Miss (Low, Medium, High Potential)**

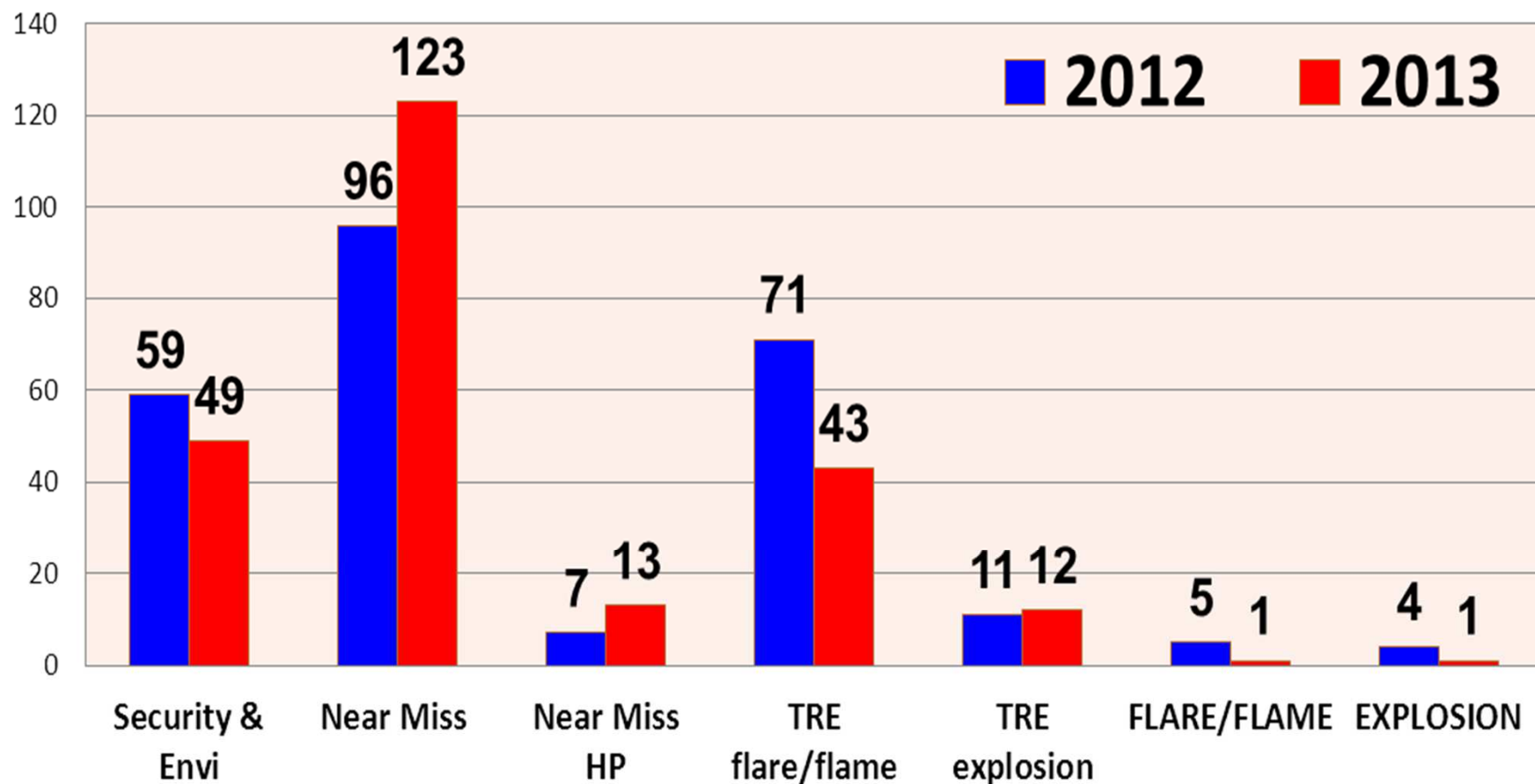


NEAR MISSES

- Reporting of near-misses in an open communication was then perceived as a proactive measure to prevent (lost time incidents) injuries and as a Key Performance Indicator**
- As soon as the new reporting system for non-injury incidents/near-misses had been introduced and staff had been given appropriate training, a leap in reporting could be observed**



REPORTED EVENTS



REPORTED EVENTS

Differences between 2012 and 2013.

We can observe:

- a significant decline in a number of explosions, flares/flames and technology related events in 2013**
- a rise in a number of reported near misses in 2013**

The progress demonstrates a proactive approach of most employees.



SHARING of INFORMATION

- ◆ **All reported events are daily reviewed, addressed and investigated by the local Safety Engineer Department.**
- ◆ **Key (safety) Performance Indicators are presented to the senior management once per week.**
- ◆ **All Safety Performance Indicators are presented to the senior and junior management in detail at management safety meetings three times per year**



SHARING of INFORMATION

- ◆ **The Key (safety) Performance Indicators and production information have been shared by the senior management with all employees once per three month at regular briefings.**
- ◆ **Safety information (including learning from related incidents) have been shared by the junior management with all employees at safety trainings once per three month.**



MANAGEMENT SAFETY ACTIVITY (MSA)

- ◆ **MSA has been introduced in 2012**
- ◆ **It requires managers from all departments to conduct plant walks/inspections and plant audits according to a preassigned schedule**
- ◆ **Participation in MSA is incorporated as an objective to the individual Personal Performance Reviews**



MANAGEMENT SAFETY ACTIVITY (MSA)

- ◆ **The frequency of required plant visits/inspections is depending on the role in the company(4/y-10/y)**
- ◆ **A performance review is presented at the management safety meeting (3/y) and published on the intranet**
- ◆ **However, with open communication, regular management reviews and publishing performance data, significant improvement by peer pressure is expected in the future.**



TAKE HOME MESSAGE

- ◆ **The classification of non-injury and near-miss events improved reporting in general and delivered a set of independent KPI.**
- ◆ **The independent KPI's can be used to 'measure' reporting and to follow-up on targets to reduce the total number of high potential incidents and to identify trends in TRE and take suitable preventive measures**



TAKE HOME MESSAGE

- ◆ **Near miss reports are good news, and the quality and frequency of reporting are incorporated in company goals.**
- ◆ **Near miss reporting is a measure of real commitment to safety because it demonstrates employee involvement and we can learn and without or before someone is injured.**



TAKE HOME MESSAGE

- ◆ **Communication is very important both to start the data gathering and also to sharing the results**
- ◆ **The introduction of a more differentiated incident reporting system and staff training (including incident investigation techniques) and the MSA significantly contributed to a new AD plant record - 686 days without LTI.**



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