Fatality Prevention in the Workplace Forum
Best Practices Showcase

John A. Williams
International Paper
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Global IP Overview

- Leading Global Paper & Packaging Company
- $25 Billion in Revenues
- More Than 70,000 Employees
- Nearly 250 Mfg. Operations in 20 Countries
- Customers in More Than 100 Countries
- Primary Platforms in North America, Brazil, Europe/Russia and Asia/China/India
Total injuries decreased significantly but serious injuries did not reduce proportionally.
In November 2010 International Paper launched LIFE, a multi-year effort to identify and mitigate the potential hazards and risks that lead to serious injuries and fatalities.
## What is a LIFE Incident?

A fatality or amputation

OR

An injury that results in 14 or more calendar days away from work and involves:

- Organ Damage
- Concussion or Other Brain Trauma
- Bone Fracture
- Crushing Injury
- Degloving
- Serious 2\textsuperscript{nd} or 3\textsuperscript{rd} Degree Burn

## LIFE Goal

Zero Life-changing Injuries and Fatalities
LIFE Incident Analysis 2007-2010
Led to 5 Focus Areas

30% Machine Safeguarding
27% Harmful Substances or Environments
17% Motorized Equipment
18% Other*
6% Falls
2% Driver Safety

*Other – primarily acute trauma due to material handling
LIFE Strategy

Communicate Effectively

Engage Stakeholders

Make Safety a Core Value

Learn From Past Mistakes “LIFE Lessons”

Benchmark Best Practices

Use ME* Tools, Project Teams & be Data Driven

LIFE Training & Education

Change the way we measure Safety Performance “Leading Indicators”

Be Global

* ME – Manufacturing Excellence
LIFE Leader Guide

February 7, 2011

What you, as an IP Leader/Manager can do to help prevent serious injury and death at your International Paper operation.

Worldwide over 200 million accidents occur on the job annually.1 Approximately 3 million of these accidents occur in the U.S., while we don’t have good statistics on how many of these were life-changing accidents on a global basis. In the U.S. in 2009, there were 4,340 fatal occupational injuries and another 1,218,000 serious injuries involving days away from work.2

In 2010, IP experienced 54 serious workplace life-changing injuries and three fatalities (37 LIFE incidents) globally; and as of this publication date, we have experienced two fatalities in 2011 – one in China, the other in Russia. To address serious injuries (and deaths) that occur too frequently in our workplaces, IP launched a new safety effort called “LIFE - Life Changing Injury and Fatality Elimination” – with the initial goal of reducing life-changing injuries by 50% and eliminating all fatalities by year 2013.

10 Ways to Foster Employee Involvement/Engagement in LIFE

1. Ownership - Get employees involved by giving them responsibility for safety planning, conducting workplace inspections, analyzing their own workplace safety statistics, reviewing incident causes and developing training and other safety tools.

LIFE Quarterly

Motorized Equipment Project Team Makes Recommendations

Since 2007, there have been 36 LIFE incidents involving Motorized Equipment, including fire department fatalities. Motorized Equipment incidents represent 17 percent of all LIFE incidents at International Paper. Lift trucks were identified as the primary focus area, become 60 percent of Motorized Equipment incidents involving lift trucks.

A global, multi-business project team used Manufacturing Excellence continuous improvement tools to analyze incident data, identify the root causes of past incidents and develop recommendations in order to prevent them from recurring. The team brainstormed internally and externally to identify effective prevention strategies and best practices.

The team analyzed global incidents related to all types of motorized equipment. They looked at lift and clamp trucks, forklifts, woodyard equipment, cranes, social life, personnel cranes, tractors, UID and skid stack loaders (Bobcats).

Recent incident data shows that the shipping warehouse and corrugated areas are the most likely to experience an incident. The team developed a first phase of recommendations that relate to training, inspections and policies/procedures to improve safety in this current LIFE area. Expect to see recommendations issued by end of May.

Currently, new technology is under evaluation at several sites. Upon completion, the team will issue additional recommendations.

Summary of Recommendations:

- Employees and affected contractors must complete Pedestrian Safety Training.
- Lift truck operators must be trained and certified using the IP Lift Truck Certification Course.
- Lift trucks must be inspected prior to use, and a process must be in place to take deficient equipment out of service.
- Conduct Traffic Flow Risk Assessment and use the Hierarchy of Controls to eliminate, isolate or reduce pedestrian/lift truck interaction.
- Remove pedestrian traffic areas where lift trucks aren’t operating.
- Restrict pedestrians from high-risk/limited-visibility areas such as roll rooms when lift trucks are operating.
- Pedestrians must wear a high-visibility vest (class 1 indoors) in high traffic areas.

Look for Future Recommendations For:

- Pedestrian Lift truck avoidance systems
- Mechanical dock restraint system specifications
- Lift truck speed limiting devices
- Lift truck management systems
- Lift truck equipment specifications

LIFE Quarterly

News & Insights on Safety

Spring 2011

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Global Engagement

Asia

U.S.A

Poland
Learn From Past Mistakes

**LIFE Lessons**

One-page summary of incident investigation findings and corrective actions is distributed throughout the company.
Project Teams for 5 LIFE Areas

**Motorized Equipment (2011)**
- Pedestrian Safety Training
- Traffic Flow Risk Assessments
- Motorized Equipment Operator Training
- Collision Avoidance Systems

**Machine Safeguarding/ZES**
- Hazard Identification/Risk Assessments
- Machine Guarding Improvements
- Energy Control (ZES/Lockout)
Project Teams for 5 LIFE Focus Areas

- **Fall Protection**  Slips, trips and falls from height
  - Truck tarping addressed
  - Fall risk assessments

- **Harmful Substances and Environments**
  - H$_2$S, Confined Space Entry and Electrical Safe Work Practices.
Project Teams for 5 LIFE Focus Areas

**Driver Safety**
- Distracted Driving Focus
- Mobile/cell phone device ban 2013
- Defensive Driver Training

**New Emphasis:**

**Contractor Safety**
- ISNetworld® (contractor pre-qualification and safety screening), including sites outside the U.S. (Europe and Brazil)
- Standardized contractor incident investigation process
- Fall protection Risk Focus
Challenges

- Manpower/Resources/New Acquisitions
- Training
- Cultural Values & Norms
- Translations
- Timely, Consistent Implementation
- Developing & Implementing Global Standards
LIFE is not about numbers ...

It’s about your health and well-being ...

it’s about our teammates...

it’s about friends...

It’s about family...

...and our ability to go home safely to them
Questions?