BREWERY SAFETY

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Objectives ... Teach

- Safety as a part of the business of beer
- Agencies interested in what you’re doing
- Brewery safety incidents
- The key areas of focus for safety
- What to do when you are inspected
- Q & A

you that safety is your responsibility...
My Background

- 29 years experience, dual board certification--CIH, CSP
- Global Sr. Safety & Health Manager of multi-national chemical company
- Last 6 years consulting in oil & gas production and refining, power plants, water treatment, pharmaceutical, biotech & specialty chemical, construction, and CRAFT BREWING
- 20 year homebrewer
- Member SDBG and CCBA
BREWERY SAFETY
What is Safety?

- The state of being safe; freedom from the occurrence of injury, danger, or loss
- The quality of averting or not causing injury, danger, or loss

We achieve safety by...
…Working Safely

- Use and promotion of all available knowledge and equipment to avoid injury, illness, and incidents
- Following rules and ensuring that others also follow rules
- Taking time to acknowledge safe behavior and coach at-risk behavior
- Listening to the advice of a professional
“As I grow older, I pay less attention to what men say, I just watch what they do.”

Andrew Carnegie
Key Concept--Loss Control

- Injuries and accidents hurt employees, damage property, and interrupt business
- Injured employees and damaged property adversely affect your bottom line
- All injuries/accidents are preventable
- Time spent on safety management pays off

Minimize loss before maximizing profit
Agencies with You on their Radar

- California Occupational Safety & Health Administration
- California Environmental Protection Agency
- County Environmental Health Depts.
- County Air Quality Management Depts.
- City: Fire Department, Code Enforcement, Water, Wastewater,
All Breweries Must Have an IIPP

Injury and Illness Prevention Program

- Provides safety program framework
- Improves employee safety in the workplace
- Minimizes risk & protects assets
- Required by Cal OSHA
IIPP Elements

- Management Commitment/Assignment of Responsibilities
- Safety Communications
- Hazard Assessment and Control
- Accident Investigation
- Safety Planning, Rules and Work Procedures
- Safety & Health Training
- Safety and Health Recordkeeping
Safety and Health Training

- One of the most important elements
- All employees must be trained initially and as new risk is introduced to the workplace
- Procedures and equipment
- Emergency action
- Supervisor training is required
  - Hazard recognition
  - Coaching safe behavior
  - Setting an example
Programs Other Than IIPP

- Emergency Action Plan
- Lockout / Tag Out (Energy Isolation)
- Confined Spaces
- Forklift Safety
- Machine Guarding
- Hazard Communication & Prop 65
- Personal Protective Equipment
- Ergonomics
- Elevated Work
- Electrical Safety
Incidents & Focal Areas for Craft Brewers

- Forklift
- Burns, burns, burns
- Strains
- Cuts
Forklifts

- Ensure training for all users and enforce rules!
- Post the Cal OSHA Operating Instructions
- Keep forklifts maintained
- Don’t do stupid things
WARNING

FASTEN SEAT BELT

DON'T JUMP!

TIPOVER CAN OCCUR IF TRUCK IS IMPROPERLY OPERATED. INJURY OR DEATH COULD RESULT

HOLD ON TIGHT TO STEERING WHEEL

BRACE FEET

LEAN AWAY FROM IMPACT

LEAN FORWARD

IN CASE OF TIPOVER
Emergency shower and eyewash units must be located so they can be used simultaneously. Eyewashes/showers should be run weekly to ensure water is clean. Access must remain clear.

The eyewash/shower must be reached in 10 seconds or less
Burns
Modelo Brewery Accident Probed After Seven Workers Die

By Brendan Case & Thomas Black - Apr 8, 2013 8:39 AM PT

Grupo Modelo SAB (GMODELOC), Mexico’s largest brewer, said the government is investigating the cause of an accident at its Mexico City plant that killed seven workers.

The deaths occurred yesterday in “a confined area of a tank in which cleaning and maintenance work was being done,” Jennifer Shelley, a Modelo spokeswoman, said in a statement. In a telephone interview today, she declined to elaborate, saying Mexican authorities were leading the inquiry.

Officials from the Labor Ministry, federal district attorney’s office and the federal civil protection agency are investigating the accident along with representatives from Mexico City, Shelley said. The city’s attorney general’s office is part of the probe, according to the agency’s press office.

Four of the dead were maintenance contractors and the other three were Modelo employees who probably went into the tank in a rescue attempt, the Mexican newspaper Universal reported today. The newspaper Milenio reported that the deaths were due to unspecified toxins.
Permit Required Confined Space Entry

- Basic steps to follow
  - Isolate the space
    - Misalign pipes, double block and bleed, or blind flange
  - Evaluate the space
    - Test atmosphere
  - Complete permit
  - Assign standby/tank watch
  - Close out the permit
Prevents energy from accidentally being released while a machine or equipment is being serviced, cleaned, or maintained

Prevents injury from the unexpected energization and startup of equipment

Protects equipment from damage
Includes

- Electrical
- Chemical
- Thermal
- Hydraulic Pressure
- Pneumatic
- Mechanical
- Kinetic / potential energy
- Radiation
Authorized Employee Responsibilities

- Properly plan the job
- Notify all affected employees in the area of work
- Shut down the equipment at the operating controls
- Isolate all energy sources to equipment
- Lock and tag all isolating devices
- Dissipate all stored or residual energy sources
- Verify the isolation
What if I’m Inspected by Cal OSHA?

- Be respectful—this is their job
- Ask if it can be rescheduled--you need to prepare and it will go much more efficiently this way
- Request an opening conference to learn what specific aspect of your business is being inspected
- Answer only those questions you are asked
- Volunteer nothing! Do not admit any wrongdoing!
- Provide copies, never originals, if they want to take procedures or records (and they will)
- Employees may be interviewed without you present
What if I’m Inspected by Cal OSHA?

- Write down what the inspector is asking and saying. Ask them to repeat if necessary.
- When finished ask for a closing conference and ask if there are any findings.
- Have a maintenance employee join the walking inspection and try to correct any findings before the inspector leaves and show them photos.
- They have 6 months to close the inspection.
- If cited, you can schedule an informal conference with the Cal OSHA District Manager to discuss your case.
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Andrew Carnegie