

Spray Equipment - 3 Important Considerations:

Safety
Safety
Safety.

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www.qspray.com

Spray Equipment Safety - Ground Rules

PLEASE:

Ask Questions

Share Safety experiences - good and bad.



Safety - Whose Responsibility?

- ◆ Department/Organization?
- ◆ Technician?
- ◆ Manager/supervisor?
- ◆ Chemical distributor?
- ◆ Chemical manufacturer?
- ◆ Equipment distributor?
- ◆ Equipment manufacturer?
- ◆ Trade organizations?
- ◆ Regulatory Agencies?



Safety - Whose Responsibility?

Breakfast - Chicken vs. Pig



Safety - Whose Responsibility?

Spray Technician –

Its your health!

Its your life!

Its your license.

Its your livelihood.

You are on the front line. **You must take control!**



Safety - What are the Hazards?

Types of hazards

Personal/Acute Injury

Back Strain

Chemical

Truck & Load-Related

What do we do about them?



Safety - What Do We Do About It?

PPE - Personal Protective Equipment

Equipment: Selection, Design & Construction

Operating Procedures (things a technician should do)

Policies & Procedures (things a manager should do)



Maximizing Safety - Personal Protective Equipment

PPE:

Not for EPA

Not for SPCC

Not for Department

Not for Boss



FOR YOU!



Maximizing Safety - Personal Protective Equipment

PPE:

Not just gloves while you are spraying.

Protect: Skin. Eyes. Nose. Mouth.

Others watch how you handle chemicals.

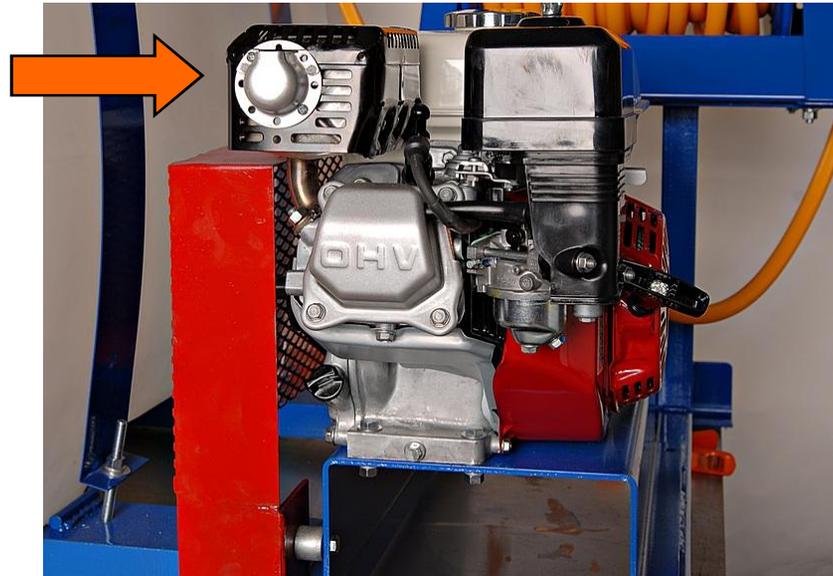


Maximizing Safety - Selection, Design, Construction

Personal/Acute Injury

Bump
Abrasion
Cut/scrape
Burn

- Design safety in.
- Do a thorough review.
- Look for overhang, rust, rough edges, sharp corners, moving parts, hot or sharp items, etc.
- Use caution around job site
- Continuous improvement in your equipment
- Borrow ideas



Maximizing Safety - Selection, Design, Construction

Prevent Back Strain

- Easy Access to Equipment
- Room to walk safely
- Anti-slip surfaces
- Eliminate trip, bump hazards
- Plan it before you build it



Safety step & handrails
to protect technician



Maximizing Safety - Selection, Design, Construction

Back Strain: Eliminate Stretching & Strain

- Easy Access to Equipment
- No Awkward Stretching, Straining, Lifting
- Equipment Appropriate to Employee
- Don't Overfill Equipment

Easy Access



Easy Fill - Less Reaching



Maximizing Safety - Selection, Design, Construction

Chemical Issues:

Chemical exposure

Spill

Slip

- Use good design - prevent problems
- Keep it clean
- Follow the Label
- Water anywhere it is not supposed to be is bad
- Report problems
- Fix problems



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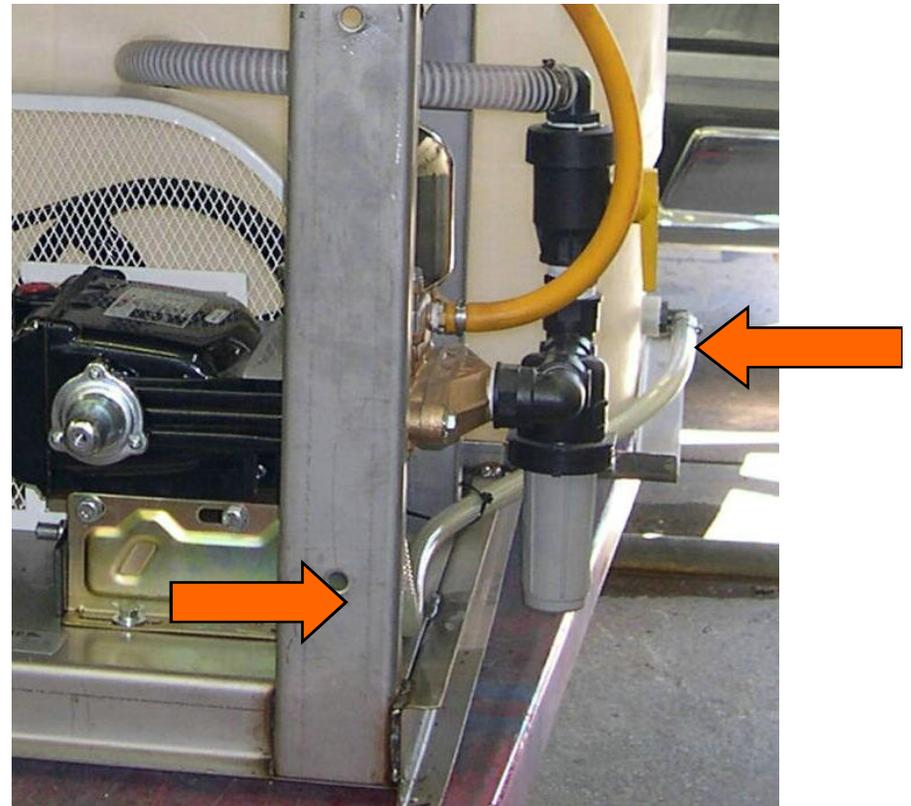
Maximizing Safety - Selection, Design, Construction

Chemical Related Problems

Proper plumbing design is critical.

Some problems we see:

- Return to tank is constrained
- Return to tank bottom



Maximizing Safety - Selection, Design, Construction

Chemical Related Problems:

Inexpensive parts can have a
BIG impact on spills & safety!

Which would you rather use?



Maximizing Safety - Selection, Design, Construction

Load Related Safety Issues

- Flying objects
- Load security
- Vehicle control & stability

WHY?

- Smaller trucks
- More equipment in truck
- More traffic
- More time on the road
- More bad drivers
- More accidents



This guy was lucky - no one killed!

Maximizing Safety - Selection, Design, Construction

Load Related Safety Issues

- Secure all equipment
- Inspect bolts
- Inspect connections
- Inspect tank straps
- Inspect toolboxes



Maximizing Safety - Selection, Design, Construction

Vehicle control & stability

- The Water in Tank is most of the weight (i.e., the tank is in control)
- Most poly tanks are not baffled
- Most baffled fiberglass tanks control 1 dimension only
- How do you control this load?



Maximizing Safety - Selection, Design, Construction

Surgebusters - Tank Baffle System for liquid load control



- Easy to install
- Works in 3 Dimensions
- Works in most tanks
- Improves safety
- Saves brakes, tires, transmission

Play 1:30 video



Maximizing Safety - Selection, Design, Construction

Summary

- **Work with your equipment supplier to design safety in up front**
- **Fix serious problems ASAP**
- **Ensure proper plumbing design**
- **Check that your equipment is secured**
- **Continuously improve equipment selection and design**
- **Borrow ideas from colleagues at meetings like this one**



Maximizing Safety - Operations

Summary

- **Inspect equipment at the start of your day**
- **Don't rush/Don't cut corners**
- **Don't run pumps/motors too fast/high pressure**
- **Don't overpressurize hand sprayers**
- **Borrow ideas from colleagues at meetings like this on**
- **Don't live with leaks and problems - report promptly**



Maximizing Safety - Policies & Procedures

Summary

- **Create a “Safety” culture**
 - **Encourage reporting of problems**
 - **Have regular safety meetings to share ideas**
 - **Ask Spray Technicians for their ideas on improving safety**
- **Proper equipment maintenance will reduce safety problems**
- **Retrain technicians on proper equipment operation**
- **Managers should perform equipment inspections & ride alongs**
- **Managers should occasionally “pull hose”**



Spray Equipment Safety - More Information

Visit: www.SprayEquipmentBlog.com

Download: Top 10 Spray Equipment Productivity Tips at:

www.qspray.com/Top10.html

Read: Parks & Rec Business Magazine - featured columnist

Pest Management Professional Magazine - monthly column

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