CCPS

PROCESS SAFETY BEACON

An AIChE Industry Technology Alliance

Messages for Manufacturing Personnel

May 2003

A "GOOD IDEA" CAN TURN BAD . . .



WHEN YOU IGNORE MANAGEMENT OF CHANGE!

Here's What Happened:

A mechanic was draining oil from this large gear box. The oil was draining out *very* slowly, so he decided to speed the job up by connecting an air hose to push the oil out faster. It didn't take long for the results shown to happen. The cast iron gear box fractured, blowing a large piece off and onto the floor. Fortunately, no one was hurt.

Why Did This Happen?

- The gear box was not a pressure vessel
- More air was added than could be vented, so the pressure built up
- MOC was not used to review the change

What Can You Do?

- Many pieces of equipment in a chemical plant are NOT designed for pressure. Check the equipment folder, but if there is no ASME code stamp, assume that it is not pressure rated.
- Adding air to the gear box was a change and should have been checked through the site's MOC process.
- Be alert to subtle changes that might not be safe.

Here's What Should Happen:



Good ideas improve operations and reduce risk every day. However, before implementing a good idea, it is essential to review the change to ensure that it doesn't introduce any new hazards or risks to the workplace. In this incident, the mechanic should have recognized what he was about to do as "not like-in-kind" and reviewed the change through the MOC process. This would have identified that the gear box was not designed for pressure.

Not everything works better under pressure. Connect utility hoses with care!

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