Deep Water Horizon Case Study and Industry Comparison

As a leader, how deep are you willing to drill down to find the right <u>RISK</u> Threshold.....?



April 20, 2010

What happened from a survivor's perspective



The Eleven Souls who shall never be forgotten



The worst environmental disaster in U.S. History







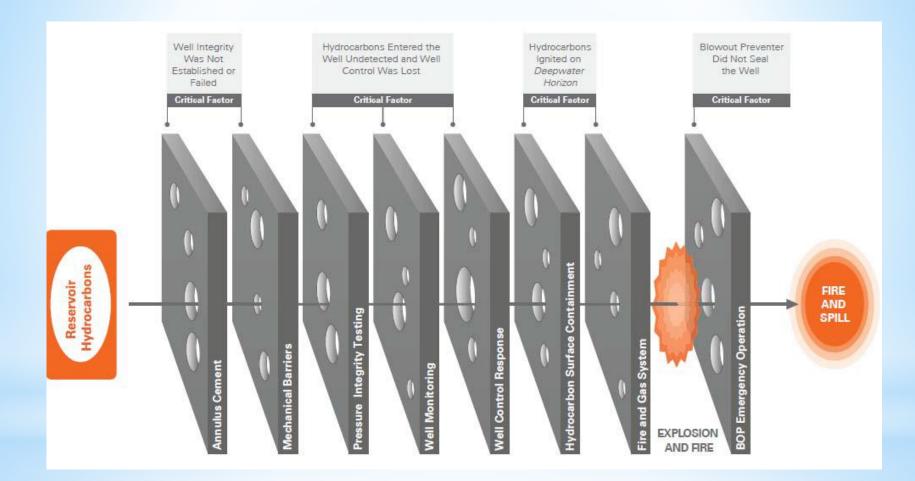


Human And Organizational Failures of the Deep

Water Horizon Event



Simplified "Swiss Cheese" Model for Deep Water Horizon



World Industry Operating Experience from the past:



Three Mile Island 1979

Piper Alpha 1988





Texas City 2005

NASA Challenger 1986





Southwest Blackout 2011 Bhopal India 1984



Lessons Learned from BP Texas City Fire and the Deep Water Horizon Fire.....

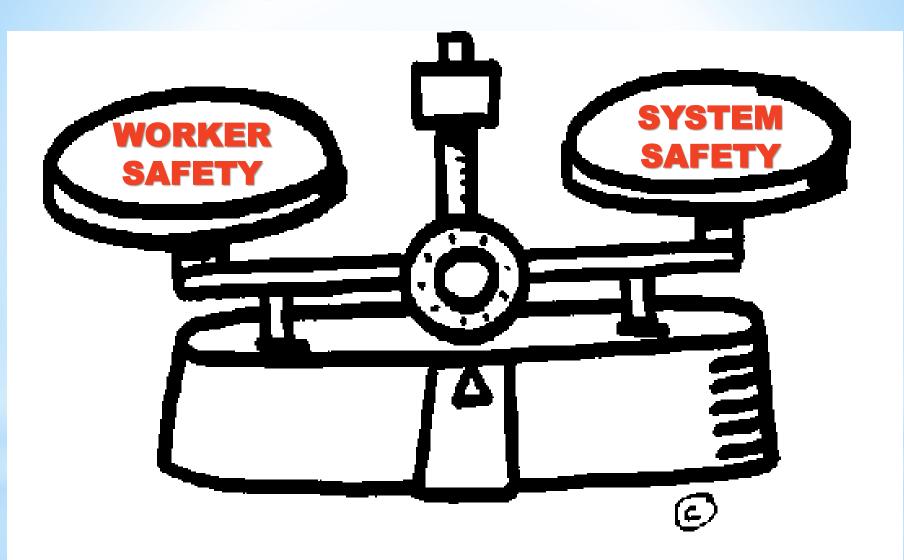
" Both of these disasters have shown us the clear differences between <u>WORKER SAFETY</u> and <u>SYSTEM SAFETY</u>,

One does not assure the other......"





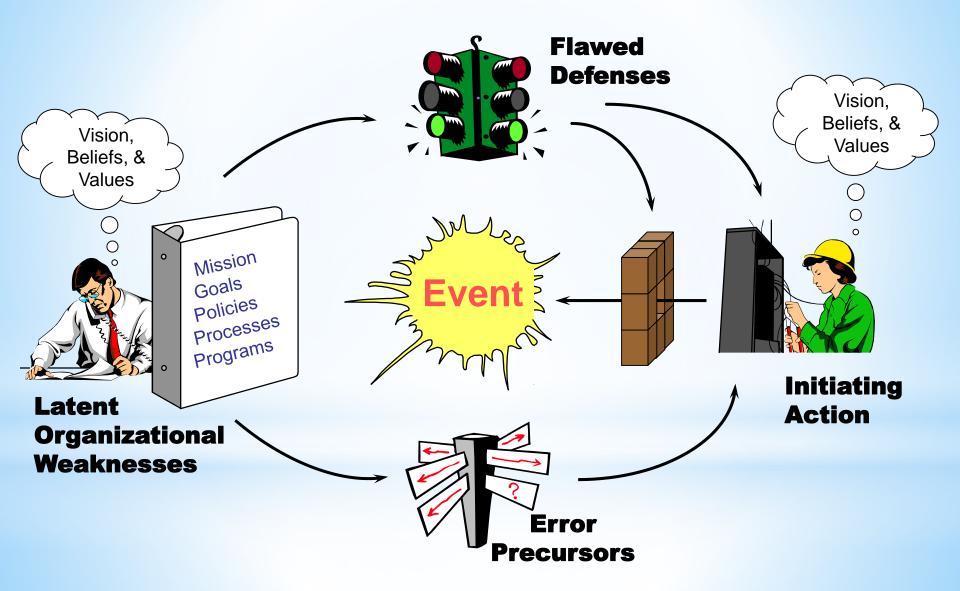
Organizational Balance



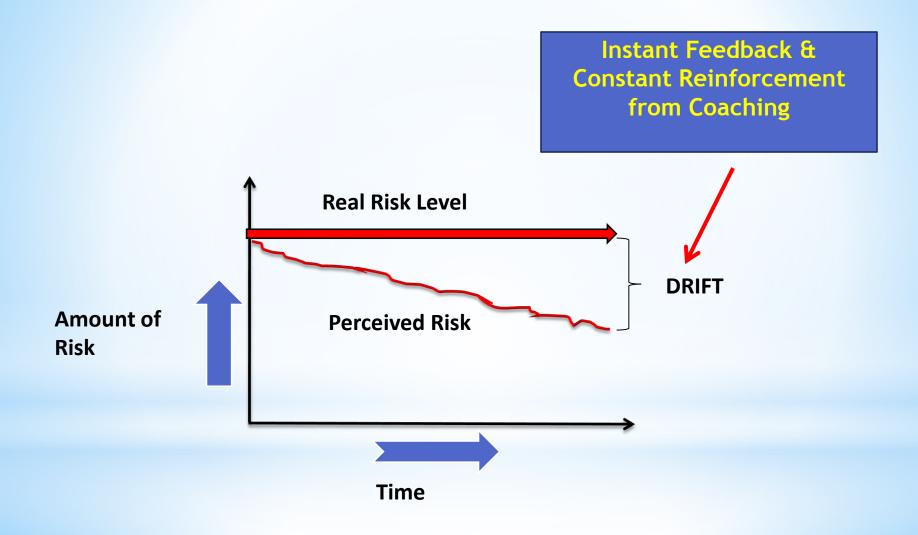
The Human Performance PDC Model



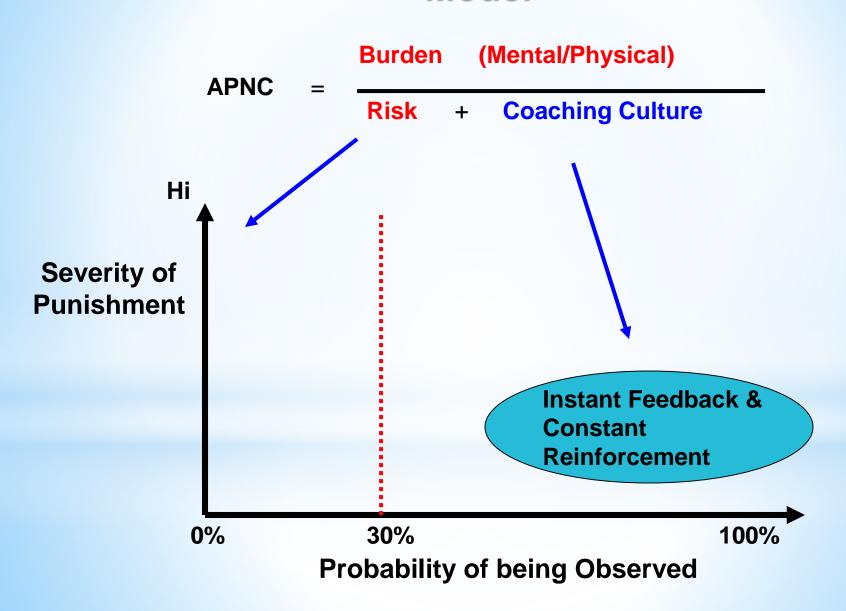
Anatomy of an Event



How we become OVER CONFIDENT



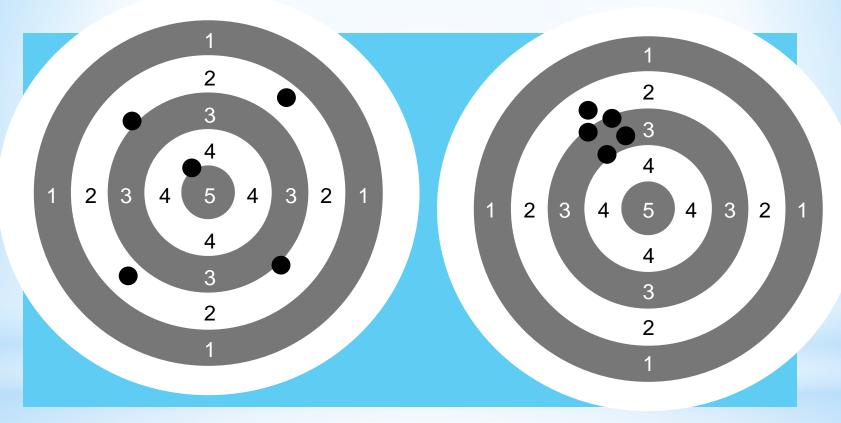
Administrative Procedure Non-Compliance Model





Results + Operational Discipline

Operational Excellence

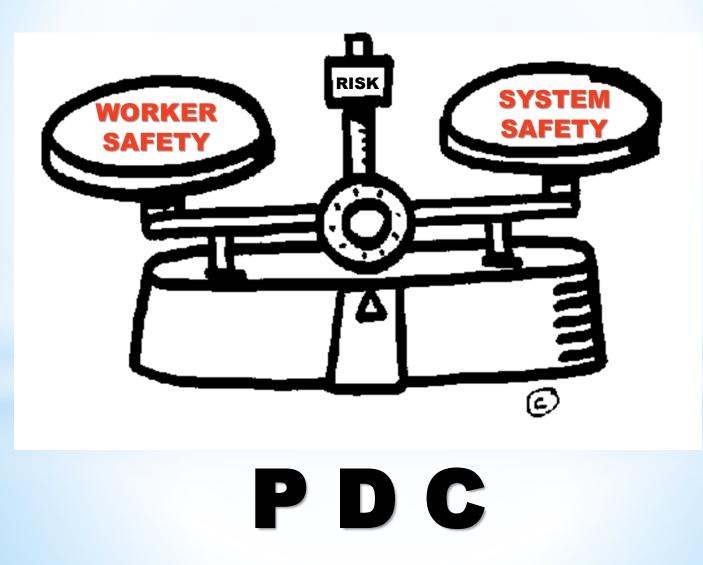


Target No.1

Target No.2



Duke Energy Leadership's Closing Thoughts



As a leader, how deep are you willing to drill down to find the right <u>RISK</u> Threshold.....?



Breakout Session Guidance

- Divide Group into equal breakout numbers
- Group elects Team Facilitator
- Team Facilitator selects group spokes person
- Spokesperson reports out on 4 key Questions from Case Study





* Are we effectively striking the balance between the emphasis on worker safety behaviors and System Safety Processes ?

* Are we so focused on personal safety that there is erosion in safety system discipline ?

* Do we see signs of complacency /drift in our safety systems?

* As a leader, what is my risk threshold, and what is the risk threshold for my work group ?

* How much drift is occurring day to day, what are some examples you've seen, and how do we address the drift effectively ?

JASON ANDERSON KARL KLEPPINGER

DEWEY REVETTE ADAM WEISE

STEPHEN CURTIS

DONALD CLARK

SHANE ROSHTO

WYATT KEMP

DALE BURKEEN

GORDON JONES

BLAIR MANUEL