BEHAVIOR BASED SAFETY

Economics of BBS within DOE

(http://tis.eh.doe.gov/bbs)

Process succeeds if everyone understands their role



S&H Goals and **Personal Actions**







Safety Meetings



Safety Shares

Job Safety Analysis



raining

Employee Involvement

Post-job briefings

Inspections



Ergonomics



Union **Summits**





Pre-job Walkdowns

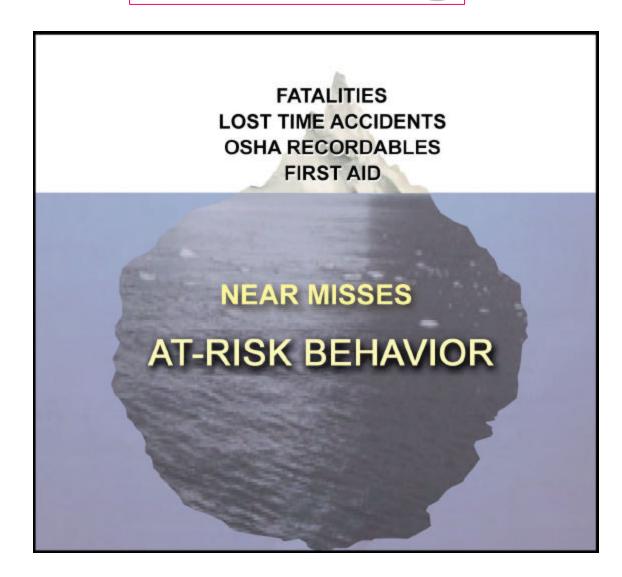


Community **Outreach**

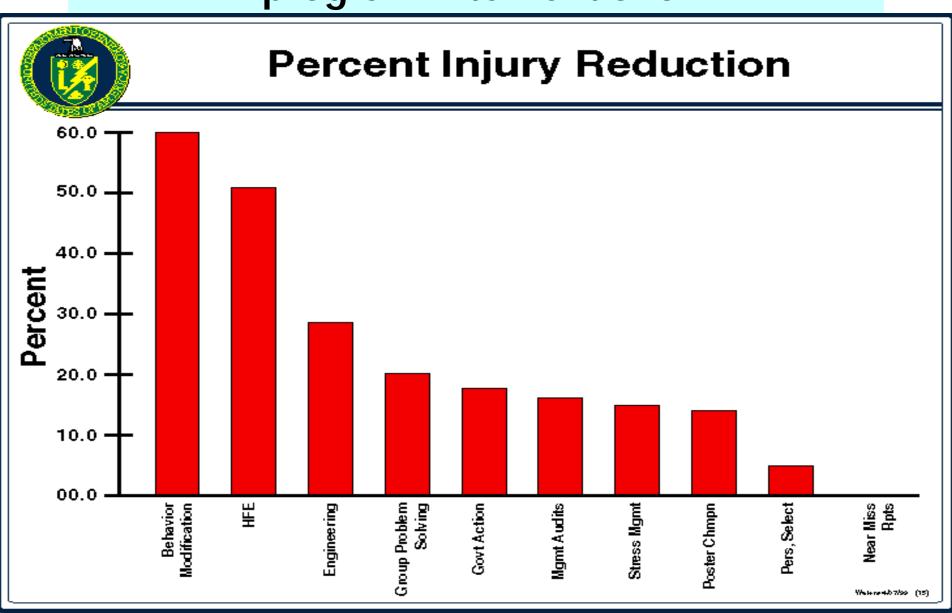
SAFETY vs. COST

- DUAL CONSIDERATIONS
 - SAFETY: Reduction in incidents, accidents and injuries
 - ECONOMICS: How much should you have to pay for safety?
- Can we achieve Both?

The Iceberg

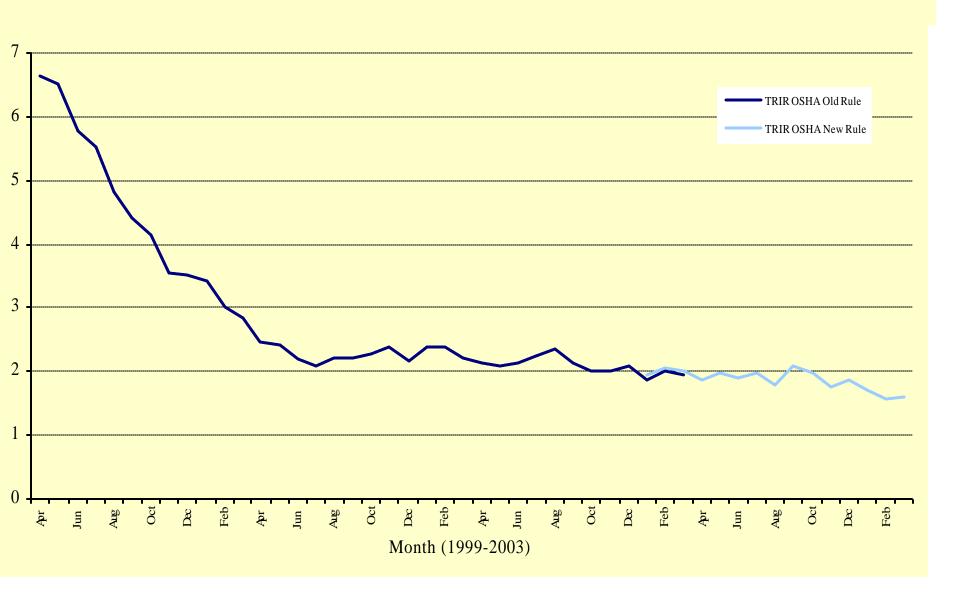


Injury reduction due to different safety program interventions.



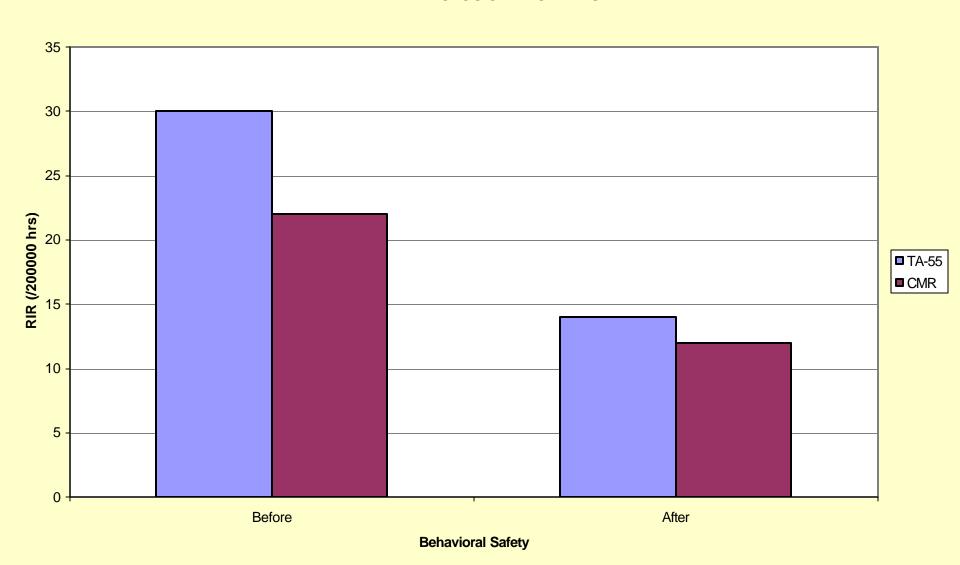
DOE TRC Level 2.5 TRC RATE 1.5 0.5 1999 2000 2001 **YEAR**

BNFL,inc. -TRC

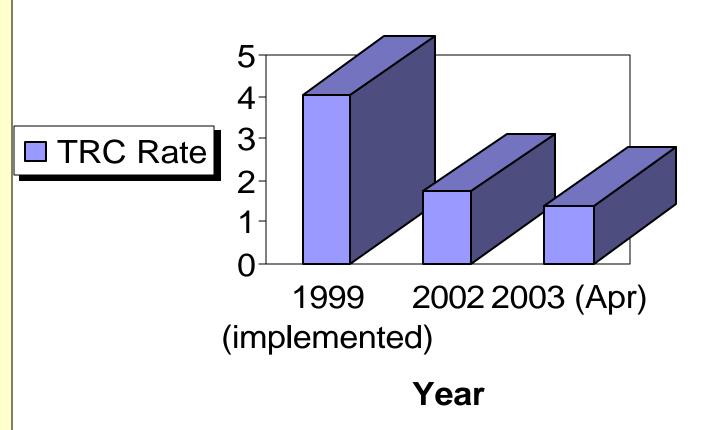


Los Alamos Radiation Data

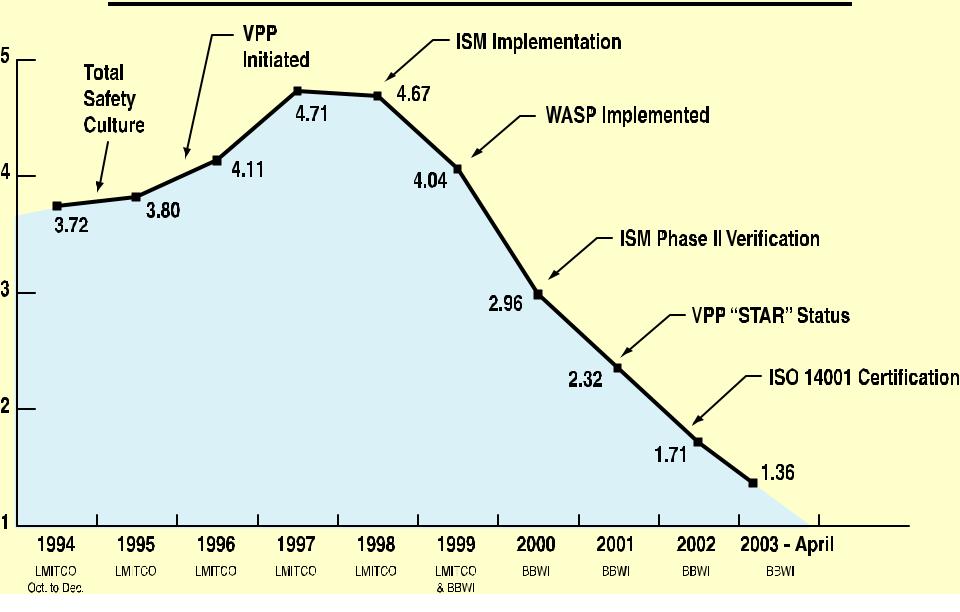
LANL RADIOLOGICAL INCIDENTS



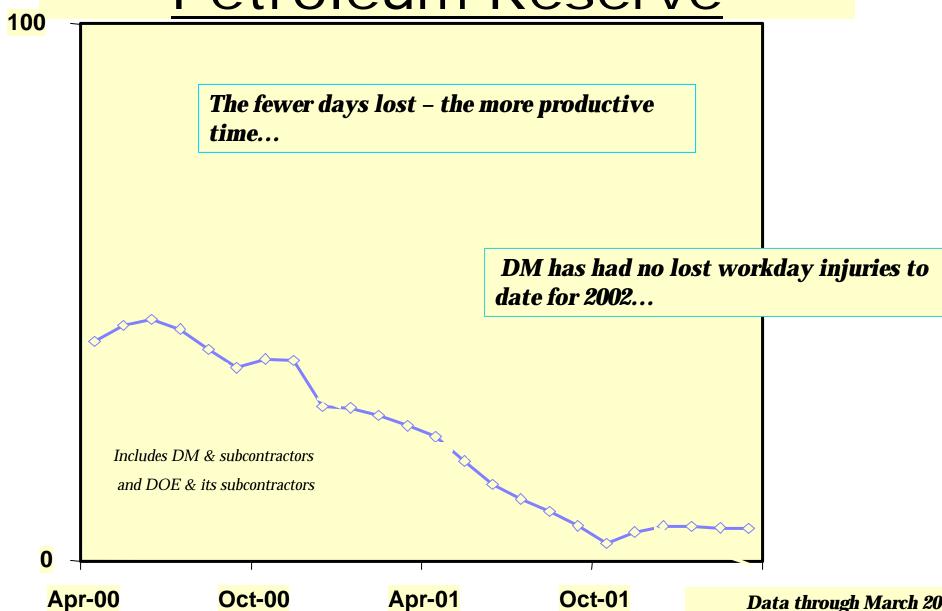
INEEL Total Recordable Case Rate since BBSP implemented.



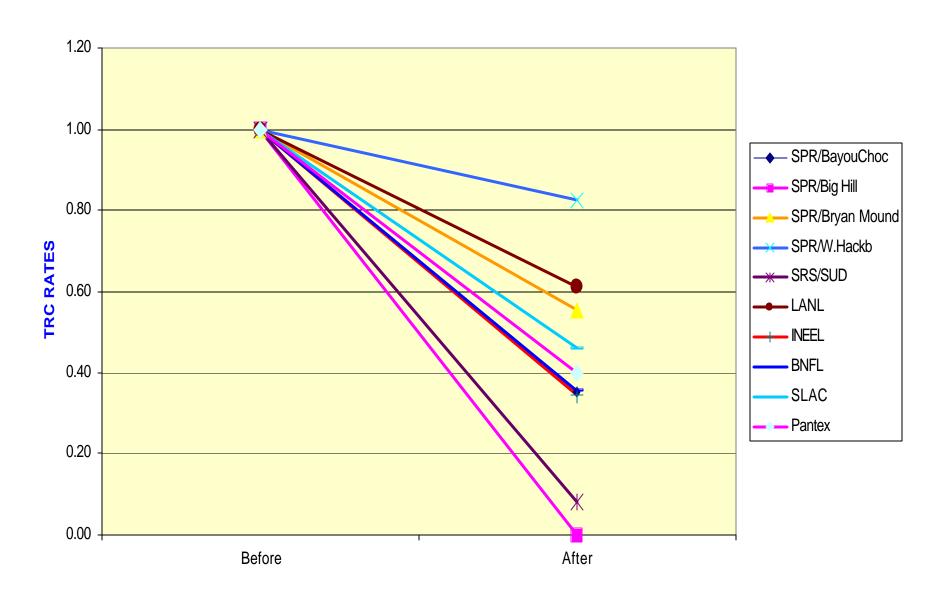
INEEL: TRC Case RATE



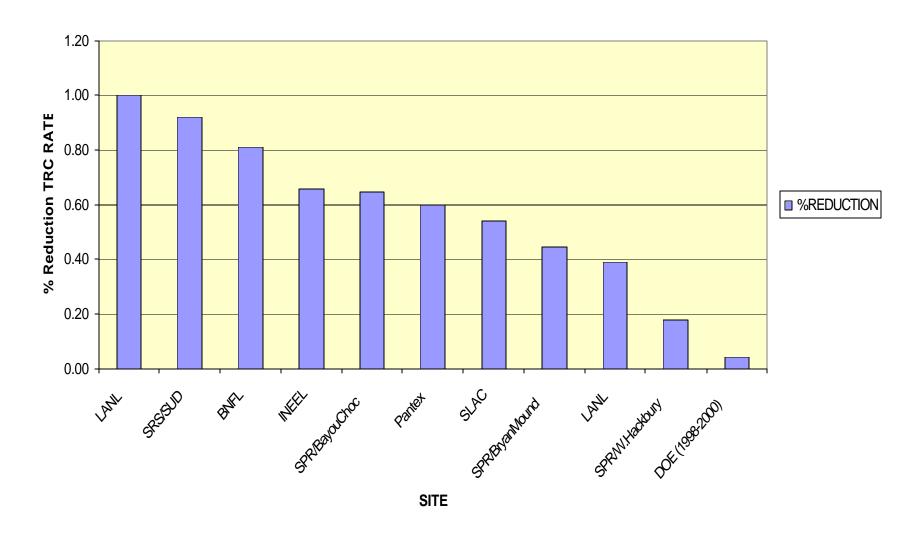
Dyn-Mcderm*ott: Strategic Petroleum Reserve



TRC RATE CHANGES WITH BBS



Percent Reduction TRC with BBS



Effective for Safety but...

- Considerable expense is required to set up a BBS Process
- A significant commitment from workers and management is needed in time and dedication.

Can BBS pay for itself?

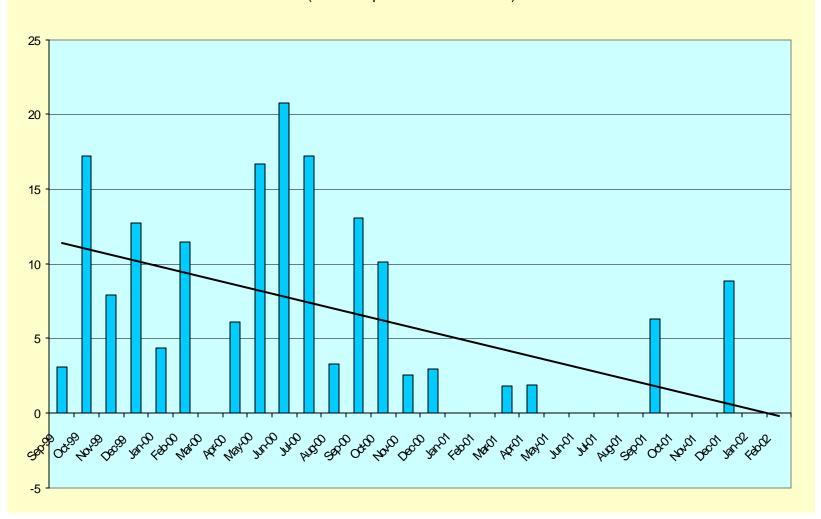
Return on S&H Investment

<u>Metric</u>	.Result	Comments
Payback Period	.6 years	Recovered \$230K in BBS program costs within 7.2 mo.
Net Present Value (NPV)	\$648K	Generated \$648,000 in loss prevention savings from BBSP implementation (50% from Worker's Compensation Program)
Return on Investment (ROI)		Created an investment return from BBSP that nearly triples the program outlay of \$230,000.

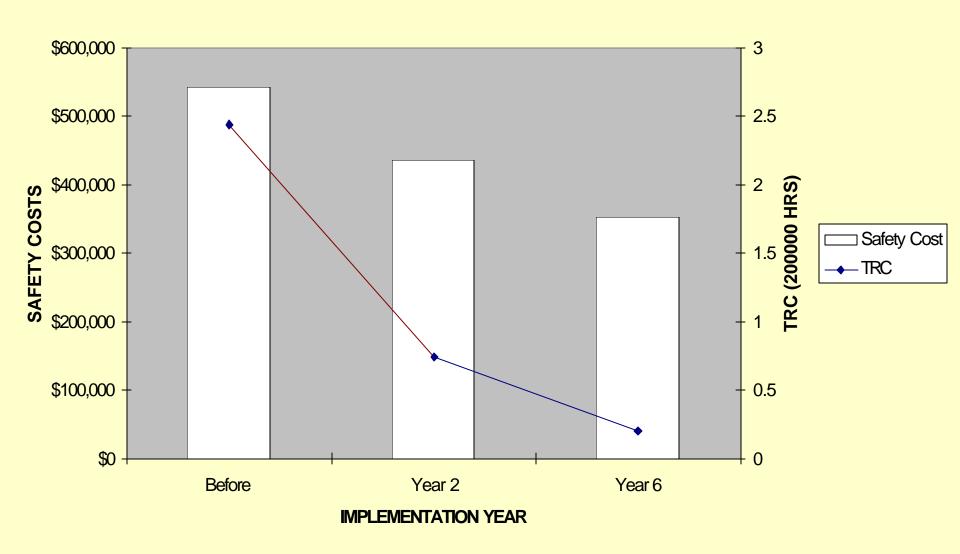
DOE Cost Index-SPR

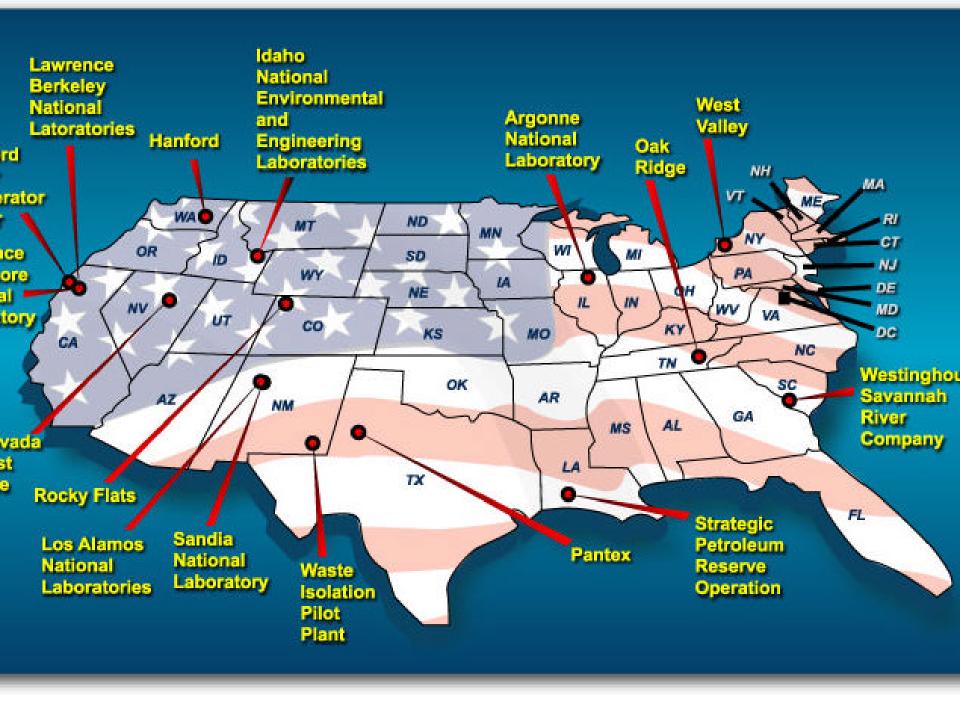
Occupational Safety and Health Cost Index

(in dollars per 100 hours worked)



SRS/SUD COSTS & TRC





SUMMARY

- BBSP HAS SHOWN TO BE AN EFFECTIVE PROCESS FOR REDUCING INJURY
 - And Your safety STATISTICS
- BETTER DATA IS NEEDED BUT
 - THERE IS EVIDENCE THAT BBSP CAN LOWER YOUR SAFETY COSTS