

# Take 5 for Safety

HSS Assist Visit  
Reducing Human Error  
Photo of the Week

Collider-Accelerator Department  
2-14-12

**BROOKHAVEN**  
NATIONAL LABORATORY

*a passion for discovery*



# DOE Health, Safety and Security (HSS) Assist Visit – Scoping Team

- **Four HSS Staff here today and tomorrow to scope a lab-wide safety audit of BNL in late March**
  - HSS team assisted by McCallum-Turner Consultants
  - Several members of scoping team were here for DOE's 2007 ISM audit
- **BNL discussed science missions and Blueprint at opening meeting**
  - Leadership initiatives (values, competency standards, work planning, landlord-tenant model (IFM))
  - Contractor assurance (internal and external assessments, performance reviews)
  - The Institutional Risk Management Committee (IRMC) (monitors institutional performance and risk; meets weekly and makes recommendations and where appropriate, decisions on management actions and initiatives)
  - Windshield Tour, IFM, Scissor Lift Event and Corrective Action Plan to be discussed today and tomorrow
- **HSS Assist Visit to occur in last week of March**

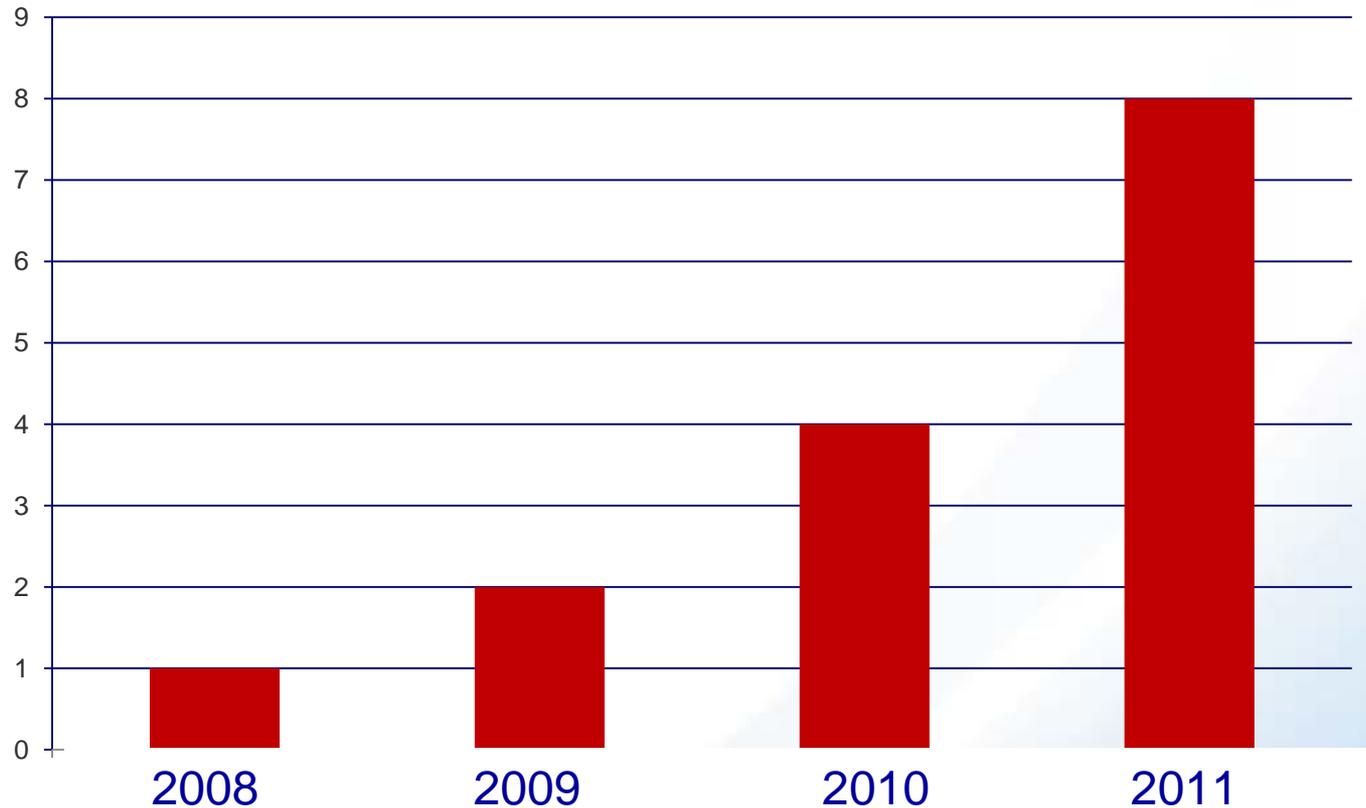
# Is 0.001 % Human Error Good Enough?

- 1 hour of unsafe drinking water per month
- 2 unsafe landings per day at busy airport
- 50 dropped babies per day
- 116,000 lost pieces of mail per hour
- 20,000 incorrect drug prescriptions per year
- 22,000 checks deposited in wrong accounts per hour

# Examples of Human Error Prevention Techniques

- **Conservative Decision Making**
- **Change Management**
- **Self-checking**
- **Peer-checking**
- **Supervision / Independent Verification**
- **Three-way Communication**
- **Procedure Use**
- **Questioning Attitude / Time-out When Unsure**
- **Pre-job Briefing**
- **Turnover Briefing**
- **Place-keeping**

# # of BNL Operational Emergencies and Sig Cat I & II ORPS by Calendar Year



2008: Well house | 2009: TSR and rigger | 2010: USQ, legacy rad source, 2 shocks  
2011: 3 shocks, scissor lift, tree felling, sealed source, fall, PET, oil discharge

# Signs Don't Help Distracted Driving

