



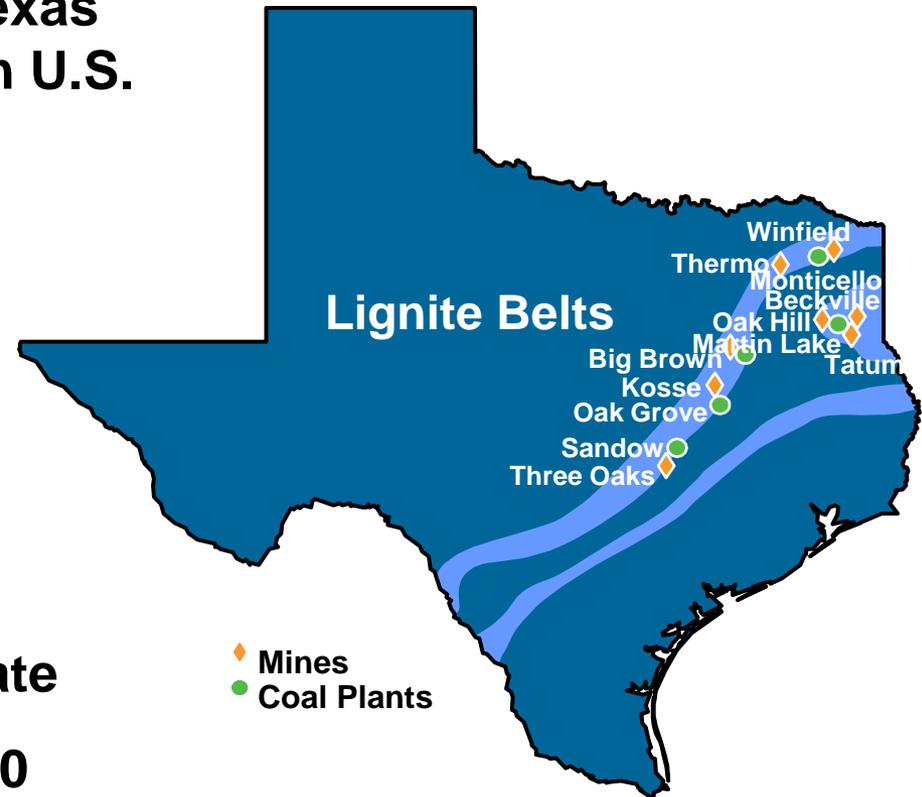
Luminant

Successful Safety and Health programs at Luminant Mining

Douglas C. Larch
Luminant Regulatory and Compliance Supervisor
Dallas, TX

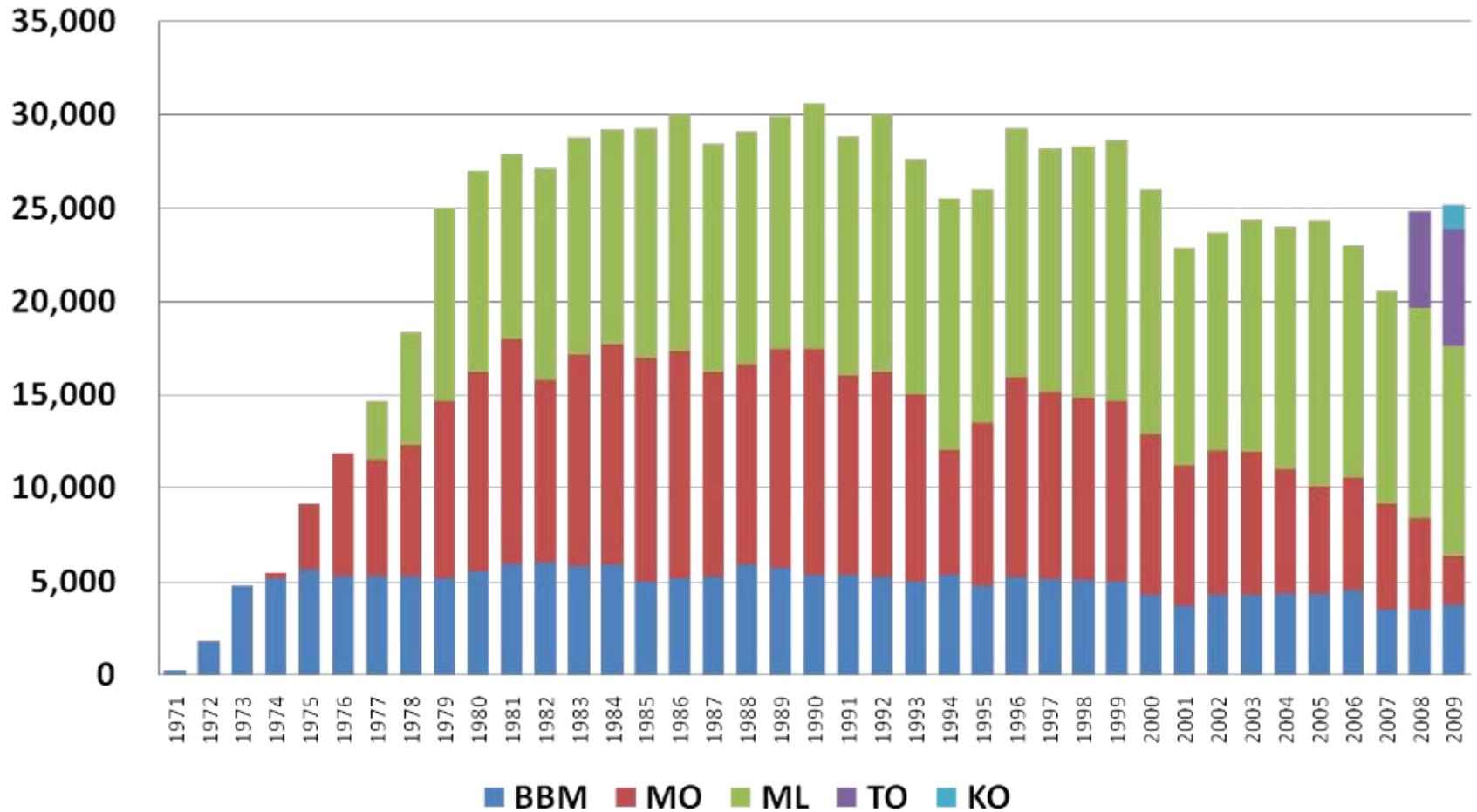
Luminant Mining

- Largest mining company in Texas (131,000 acres); 11th largest in U.S.
- Approx. 1,872 employees (1,287 union), 300 contractors
- Produce ~33M tons a year
- Move ~327M cubic yards of overburden/year
 - Mined over 900M tons to date
 - Reclaimed more than 66,000 acres
 - Planted more than 29 million trees



Luminant Mining History

Lignite History 1971–2009; Thousands of tons



Our Programs

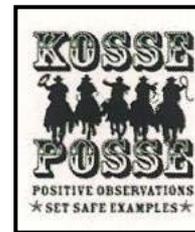
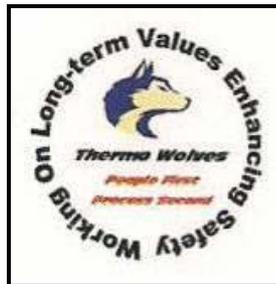
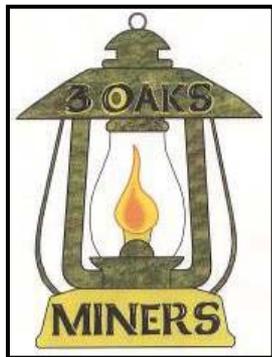
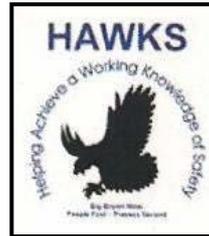


Management Commitment

- **Senior Leadership Team Support**
- **Total Compliance**
- **Safety Accountability**
 - **Changing Behaviors / Leading Indicators**
 - **Reduce Injuries / Incidents**
- **Hands On Approach**
 - **Training**
 - **Increased Safety Staffing**

Worker Involvement

- Central Safety Committee
- Employee Involvement at Safety Meetings
- Behavior Based Safety Programs
- Inspection (Management / Employee driven)



Hazard Identification

- Pre- Job Brief
- SLAM
- Pre Operational Inspections / Trouble Ticket Process
- Monthly Inspections (Fire, Electrical, Impoundment, etc.)
- 5S (Sort, Straighten, Sanitize, Standardize, Sustain)



How to "Speak Clear" Performing Pre- and Post-Job Briefs	Post-Job Brief CLEAR	Pre- and Post-Job Briefs Completing Tasks Safely
<p>Use these acronyms to guide your pre- and post-job briefings.</p> <p>Pre-Job Brief: SPEAK Safety Critical Steps: What are the safety critical steps? _____ _____</p> <p>Prior Performance Have we done this task before? _____</p> <p>Error-likely steps What mistakes might be made? _____</p> <p>Anticipate Are there special precautions required? _____</p> <p>Kind of defenses Is energy source control needed? _____</p> <p>Post-Job Brief: CLEAR Changes Do the task instructions need to change? _____</p> <p>Lessons learned What should others learn from this task? _____</p> <p>Errors left uncorrected Could human error during the next task? _____</p> <p>Adequate resources Do the resources support the task? _____</p> <p>Results not expected Were the results unexpected? _____</p>	<p>Complete this side after the job and return the form to the designated site location.</p> <p>1. Unplanned event? (Injury, Damage, Process change, Near miss, Production interruption) Explain. _____ _____</p> <p>2. Job site cleaned up? Explain. _____</p> <p>3. Problems/safety concerns? Explain. _____ _____</p> <p>4. Corrective actions taken on problem/safety concerns? Explain. _____ _____</p> <p>Reviewed by: Supervisor: _____</p>	<p>Use this form to "Speak Clear" in your pre-job brief and post-job review.</p> <p>For the pre-job brief, review each "speak" section that is applicable to your job inside this form and check the box if you discussed it with your team.</p> <p>For the post-job review, answer the questions on the back of this form to be "clear."</p> <p>Team Leader: _____</p> <p>Team: _____/_____ _____/_____ _____/_____ _____/_____</p> <p>Date: _____</p> <p>Location of Task: _____</p> <p>Task Description: _____ _____ _____</p> <p style="text-align: right;"> Luminant</p>

Hazard Prevention and Control

- **On Shift Examination**
 - **Employees encouraged to find and fix hazards**
 - **Recording and reporting of conditions to management**
 - **Contractor Management**
 - **Five full time Contractor Coordinators**



Safety and Health Training

- **Full time Safety Training Group**
 - **Task Training Initiatives**
 - **Annual Refresher Training**
 - **Impoundments**
 - **Surface Certification Retraining**
 - **Opportunity to become an MSHA instructor (IS)**
 - **Management Safety Seminar**
 - **Supervisor Safety Seminars**
 - **Employee Safety Seminars**
 - **CMSP hosted by Luminant**

Safety and Health Training

▪ Luminant Academy

- New Miner Training
- Equipment Simulation Training
- Computer/Technical Training
- Behavior Based Safety Training
- Partnered with MSHA to conduct:
 - Coal Dust Sampling Certification
 - Methane Oxygen Training
 - Sponsored Stakeholders Meeting
 - Electrical Training
- Hands On Training (forklift, crane, conveyor, electrical, and administrative) offered in conjunction with Tyler Junior College



Program Evaluation

- **Senior Management Support**
 - **Safety Compliance Assisted Visit (Internal Audit)**
 - **Behavior Safety Recommendations**
 - **“HPI” Human Performance Improvement (Error Proofing)**



