Southland Safety
One Team
About Southland Industries

• Southland Industries, founded in 1949, provides innovative results for your engineering, construction, service and energy needs

• Regional offices located in Southern California, Northern California, Las Vegas, Phoenix, Portland and the Mid-Atlantic and we do travel to other locations for the right projects and opportunities.

• $600 Million in Revenue

• 4th Largest Mechanical Contractor in US

• Union contractor – Pipefitting, Sheet Metal, Plumbing, Sprinkler-fitting

• In-house Engineering Department with Design Capabilities including: HVAC, Process Piping, Plumbing, Energy Modeling, Fire Protection, Controls and Energy Services

• Industries served include: Healthcare, Hospitality, Life Sciences, Commercial/Institutional, Data Centers, Telecommunications, Government, Education/Campuses and more

• Full Controls and Service/Maintenance Department
Southland Lean Journey

- 1998 - Joined LCI (as one of the original members)
- 1999 - Rolled out training and incorporated Last Planner into our operations company wide
- 2004 - Performed first IPD project on the Camino Medical Group project in Northern California
- 2005 - Started regional committees for internal lean initiatives which was customized to fit each divisions processes, implementation and roll out
- 2012 - Customer value and elimination of waste incorporated into Core Values
- Ongoing - Encourage lean thinking in all aspects of the business and project level through lean leadership
Core Values

**People** - We provide significant opportunities for personal and professional growth and a work environment that is progressive, exciting and supportive.

**Integrity** - We act with unyielding ethics and honesty and inspire trust by doing the right things, saying what we mean, and meeting our commitments.

**Collaboration** - We work together as one team to ensure that our actions and decisions are in the best interest of our customers, partners, employees and company.

**Accountability** - We choose to rise above our circumstances and take the necessary ownership to achieve our desired objectives for ourselves, our customers and each other.

**Safety** - We steadfastly protect the health and well-being of our employees, as well as those affected by our work.

**Innovation** - We think creatively and pursue continuous improvement to generate opportunities and provide inspired, visionary solutions for our customers.

**Sustainability** - We responsibly conserve our natural resources and seek ways to eliminate waste from everything that we do.
Reyann Contreras

• Vice President of Safety and Risk Management, Southland Industries

• 1\textsuperscript{st} Safety awareness

• 2\textsuperscript{nd} Improve safe working conditions by providing more safety training, better tools and equipment including mandatory personal protective equipment.

• Progress was seen immediately, fewer of our people were being injured.
Southland Safety

• As a result of our Lean focus we strive to continuously improve.
• To this end Southland assembled a team of professional, highly trained and experienced Safety Professionals to lead the charge.

Scott Limpus, SoCal
Joe Visgaitis, Mid-Atlantic
Jerry Nichols, Southwest Nevada
Zachary Gill, NorCal
Maureen Gadient, National Engineering
SoCal Division

- Scott Limpus, Southern California Division Safety Manager.
  - Since January 15, 2006
  - Heads a team of 4 full time safety personnel.
  - 5 + Months w/o recordable incident.
  - 751 days (1.14M hours) w/o lost-time
  - 171 days (875K miles) w/o at-fault vehicle accident
  - 2,327 shop days w/o lost-time
  - Incident rate = 1.4
Safety Management System

Employee On-Boarding

Welcome

If this is your first time using the web-based program to enter your New Hire information, tap the button below.

New Application

Continue Existing Application

Enter your last name and date of birth to continue an application where you left off.

Last Name

Date of Birth

Continue...
MEMO

To: All Foremen
From: Reyann Contreras
Date: April 24, 2015
RE: Weekly Accident Review

The week of April 20, 2015 Southland Industries reported one new injury. The injury occurred in the Southwest Nevada Division.

A pipeliner foreman working at the Desert Springs Hospital reported feeling continued pain in his shoulder. The foreman indicated that he was lifting a box over the tailgate of his truck, when the pain started. Initially he had denied medical treatment, but after a few days decided to see a doctor take a look. He was taken to the clinic and was released to modified duty. This is a recordable, no lost time injury. Please remember to lift properly. A better plan would have been to lower the tailgate before removing the box from the back of the truck.
Incident Reporting

Search - Work Injury Report

Claim Type: *
- OCIP
- CCIP
- SI

Injury Type? *
- Clinic
- No Clinic
- Near Miss

Last Name: [ ] Status: Any Sort: Newest

Search Back
## Workplace Audits

<table>
<thead>
<tr>
<th>General Work Environment</th>
<th>0/10 (0%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Are all work area clean and dry?</td>
<td>Yes</td>
</tr>
<tr>
<td>Trash removed daily?</td>
<td>Yes</td>
</tr>
<tr>
<td>Are aisles, walkways, doorways, and exit routes kept clear and unobstructed?</td>
<td>Yes</td>
</tr>
<tr>
<td>Are toilets and washing facilities provide, kept clean, and safe?</td>
<td>Yes</td>
</tr>
<tr>
<td>Are all SDS on site in an area that is readily accessible to all employees?</td>
<td>Yes</td>
</tr>
</tbody>
</table>
View Crisis Plan

Back To Plans List

Southern California Field

Emergency Response Plans for Field Operations including construction projects and Service Department

Each project must have an emergency room and clinic identified.

For serious injuries, dial 9-1-1.

Always have the address of your work location ready.
Mid-Atlantic Division

- Joe Visgaitis, Mid Atlantic Div. Safety Manager
  - Since December 20, 2006
  - Heads a team of 5 full time safety personnel
  - Washington Metro AGC Safety Excellence Award Winner
  - Gilbane Building Co. Safety Subcontractor of the Year (Mid-Atlantic region)
  - 1.3 million hours and 393 days since last lost time injury
  - 188,136 hours and 70 days since last recordable injury
  - Incident Rate = 2.0
  - Champions the case for Prevention through Design
Prevention through Design
Four Trajectories

1. Increased Prefabrication

2. Increased Use of Less Hazardous Materials

3. Increased Application of Construction Engineering

4. Increased Spatial Awareness
Multi-Trade Modular Racks

- **Concept**: Multi-trade modular racks to be used in main corridors
- **Safety Challenge**: Find a way to install these massive racks without damaging them or hurting someone
  - Initial idea: Skate into building, use chain falls
  - After safety involvement: Side-load forklift used
Multi-Trade Modular Racks

• **Benefits:**
  • No one under racks during install (operator is protected)
  • No exposure to sprain and strain injuries
  • Increased productivity by eliminating need for chain falls
  • Speed of installation
  • SAFE = FAST!
IPEC Unit

- **Concept:** Use IPEC unit for project

- **Safety Challenge:** Make the IPEC unit as safe and avoid as many confined space issues as possible
IPEC Unit

• Solution: Add a second door

• Confined Spaces must meet all three by definition:
  1. Large enough and configured that an employee can bodily enter and perform assigned work; and
  2. Is not designed for continuous employee occupancy.; and
  3. Has limited or restricted means for entry or exit (for example, tanks, vaults, and pits are spaces that may have limited means of entry.)

• Also decreased Arc Flash hazard!
Coordination Access Zones

- **Safety Challenge:**

  Giving Test & Balance, Controls, Service personnel safe access to systems
Coordination Access Zones

- **Solution:** Insert Access Zones into models
South West Division

• Jerry Nichols, South West Division Safety Manager.
  • Started with Southland Industries March 20, 1998.
  • Leads a team of two full time safety professionals.
  • The team has just completed a very large hospital project with approximately 320 field employees, where they were awarded Contractor of the Quarter, for their commitment to safety.
  • The team worked 521 consecutive workdays without an injury. That is almost 3 years!
Material Lifting Basket

• The use of the material lifting basket was designed specifically for the project and is capable of carrying multiple material carts loaded with ductwork up to two hundred and sixty inches in length.

• The material basket was loaded at the shop and towed by passenger truck to the tower crane. Once the basket was lifted into its desired location and secured to the building, the drawer is winched out and unloaded.
Material Lifting Basket

• The lifting basket minimized exposure of personal fall protection by only requiring two personnel to anchor the basket and attach the winch to the drawer.
Material Lifting Basket

- The lifting basket drastically reduced the exposure hours of material handling.
- 390 hours when using the lifting basket versus 3456 hours using individual wheeled carts.
What Effect Did This Have?

• The lifting basket reduced the amount of exposure and potential injury by 88% making the job safer.

• Not only did the lifting basket reduce exposure time to personnel, it increased overall productivity.
Exposure and Production Hours

Manual Material Handling: 3500 hours
Material Lifting Basket: 500 hours
Northern California Division

- Zachary Gill, CSP Northern California Division Manager.
  - Began with Southland on December, 2010.
  - Leads a crew of 4 full time safety professionals.
  - Helped the division go from under performing within safety departments to one of the top performing within SI each year.
  - Numerous projects have gone 1 year, 500 days, and 2 years without recordable incidents.
Innovation Meets Safety

- We’re always pushing the limits, encouragement to “think outside the box”.

- Every innovation starts off as just an idea. We are constantly modifying our methods to allow for the most efficient and safe installation.
Innovation Meets Safety
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Innovation Meets Safety
Sharing Information

- Lessons Learned
- GoTo Meetings
- Email chain
- Video sharing
Innovation Meets Safety

- Don’t be afraid to make the call or add your suggestions. Share your ideas!

- Decisions are best made as a team.
National Engineering

- Maureen Gadient, Safety Manager- National Engineering Group
  - Brings 18 years of Mechanical, Electrical and GC experience
  - Leads a team of 5 Safety professionals
  - Safety program managed for subcontractors, Engineering and self-perform
  - Man-hours for Subs/Engineering Division nears 1,100,000 without an injury
Integrated Project Delivery & Safety

• Integrate people, systems, practices & talents
• Reduce waste, optimize efficiency
• All phases, design-fab-construction, sharing;
  • Risk and Reward
  • Involvement with owners, contractors
  • Technology
  • Processes
  • Results
Focus on Processes

- Results come when processes are followed
- Put plan in place
- Assign duties to team members
- Communicate and Orient all workers
- Audit & Update plan continually
  - (PDCA-plan, do, check, act)
Results Measured and Visible

- Tracking of Job Hazard Analysis, Pre-Task Plans, Near Miss Reports
- Measure and Share Results
- Continued Improvement
- 5S work areas
Results

• The Safety Team operated as one team
• $300k savings on one area alone
• Mechanical trade partners and tiered subs worked over 800,000 hours on a 7-12 (minimum) schedule without injury
What Does One Team Look Like

• Different hats, but we work together
• Communicate regularly
• Collaborate
• Transparency & Honesty
• Make changes quickly
• Consistency
• Working through different rules due to geography
• Sharing ideas & Listening
• Lessons Learned
• Video Library
Contact Information

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