CB&I Federal Services LLC
Safety Program

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Matthew Hadacek, Safety Director

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• Performance
• Safety Program
• What Has Worked
  o Mine the Metrics for Communication and Improvement
  o Near Miss/Great Catch Reporting
  o I CARE Observation Process
• Summary
CFS vs Industry Average Worker Safety Rates

Total Recordable Cases (TRIR)

<table>
<thead>
<tr>
<th>Year</th>
<th>Industry Average</th>
<th>CFS</th>
<th>NAICS Code 238 – Specialty Trade Contractors</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013</td>
<td>4.20</td>
<td>1.01</td>
<td>Source: Bureau of Labor Statistics</td>
</tr>
<tr>
<td>2014</td>
<td>3.80</td>
<td>0.51</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>3.70</td>
<td>0.83</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td></td>
<td>0.66</td>
<td></td>
</tr>
</tbody>
</table>
CB&I focuses on 14 Critical Life Safety Rules

These are areas where the risk of severe injury/fatality is greater

- Fall Protection *
- Confined Spaces
- Excavations *
- Respiratory Protection
- Permit to Work
- Control of Hazardous Energy (Lockout/Tagout)
- Rigging & Lifting Plan
- Personal Flotation Devices
- Human/Equipment Interface
- Safety System Override
- Dropped Objects
- Suspended Loads
- Overhead Power Lines
- Air Testing

*More stringent requirements than OSHA/EM 385

CB&I Prohibits the use of any cellular device, including hands free, while driving on Company business.

CB&I has a ZERO Tolerance for Infractions of 14 CB&I Critical Life Safety Rules OR for Willful Violation of Safety Requirements (First-Offense Termination)
Mining the Metrics

• Lagging Indicators
  o First Aid Cases
  o Medical Treatment

• Leading Indicators
  o “I CARE” Behavior Observations
  o Leading Indicator observation process
  o Near Miss / Great Catch Reporting
Communication of Data Analysis Can Focus Field Safety
### Injury Body Part 2016

- **Hands/Fingers**: 23%
- **Back**: 12%
- **Arm**: 8%
- **Knees**: 8%
- **Full Body**: 8%
- **Eyes**: 7%
- **Abdomen/Side**: 5%
- **Shoulders**: 5%
- **Head/Ears**: 5%
- **Leg**: 5%
- **Ankle**: 4%
- **Neck**: 3%
- **Face/Nose**: 3%
- **Wrist**: 2%
- **Feet/Toes**: 2%

### 2016

<table>
<thead>
<tr>
<th>Body Part</th>
<th>Total Injuries</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hands/Fingers</td>
<td>14</td>
<td>23%</td>
</tr>
<tr>
<td>Back</td>
<td>7</td>
<td>11%</td>
</tr>
<tr>
<td>Arm</td>
<td>5</td>
<td>8%</td>
</tr>
<tr>
<td>Knees</td>
<td>5</td>
<td>8%</td>
</tr>
<tr>
<td>Full Body</td>
<td>5</td>
<td>8%</td>
</tr>
<tr>
<td>Eyes</td>
<td>4</td>
<td>7%</td>
</tr>
<tr>
<td>Abdomen/Side</td>
<td>3</td>
<td>5%</td>
</tr>
<tr>
<td>Shoulders</td>
<td>3</td>
<td>5%</td>
</tr>
<tr>
<td>Head/Ears</td>
<td>3</td>
<td>5%</td>
</tr>
<tr>
<td>Leg</td>
<td>3</td>
<td>5%</td>
</tr>
<tr>
<td>Ankle</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Neck</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Face/Nose</td>
<td>2</td>
<td>3%</td>
</tr>
<tr>
<td>Wrist</td>
<td>1</td>
<td>2%</td>
</tr>
<tr>
<td>Feet/Toes</td>
<td>1</td>
<td>2%</td>
</tr>
</tbody>
</table>
MECHANISM OF INJURY / ILLNESS
TOTAL INJURIES 2016

- Hit by moving object
- Hitting objects with a part of the Body
- Contact with chemical/substance/insect
- Vehicle accident
- Falls on same level/trips/slips
- Pinch points
- Other muscular stress
- Unspecified mechanism or injury
- Contact with/exposure to bio hazards
- Falls from height
- Repetitive movement
- Contact with/exposure to heat & cold
- Exposure to particles/contaminants
Observation Process

The Premise:

The ‘I CARE’ Process is designed to cause a **cultural change** to continuously improve safety performance.

Two distinct kind of observations:

- **ICARE** - *worker behavior*
- Leading indicator - *workplace environment*

The Process:

Employees make Observations:

- About their environment before they start work
- On co-workers safety behavior while they are working

**Employees Are:**

- Involved
- Committed
- Aware
- Responsible
- Empowered
I CARE Observation
(Focus on Behavior)

Examples:

Did worker review specific eye hazards listed on the JSA and is aware of proper PPE to use and why?

○ Safe   ○ At Risk   ○ Imminent   ○ N/A

Did worker and helper use face shield and safety glasses as required?

○ Safe   ○ At Risk   ○ Imminent   ○ N/A
Leading Indicator Observation (Focus on Workplace Environment)

Examples:

**JSA at the task location?**
- Safe
- At Risk
- Imminent
- N/A

**Are Hazards identified?**
- Safe
- At Risk
- Imminent
- N/A
CB&I focuses on continual improvement in our Safety Culture. All aspects of our Safety program are designed to move every employee’s perspective...

**From:**
- Injury Statistics
- Management-Driven
- Accountable
- Individualism
- Fault-Finding
- Reactive
- Quick Fix
- Priority

**To:**
- Safety Activities
- Employee Driven
- Responsible
- Teamwork
- Fact-Finding
- Proactive
- Continuous Improvement
- Value