SAFETY MANAGEMENT & & INJURY PREVENTION



Skill. Grit. Purpose.

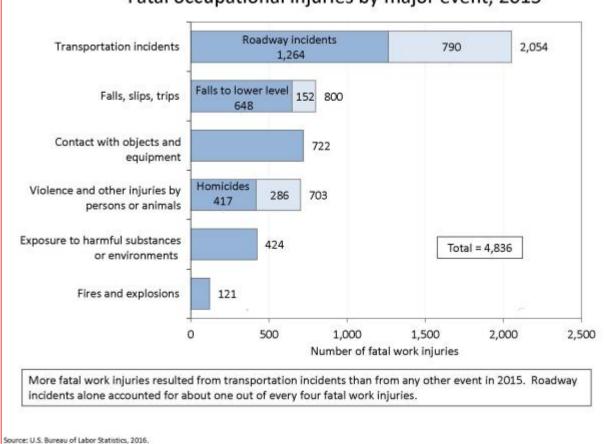
Introduction

- 1. Recognize the costs of workplace accidents.
- 2. Recognize benefits of implementing an effective safety and health program.
- 3. Describe the elements of an effective safety and health program.
- 4. Identify three methods to prevent workplace hazards.





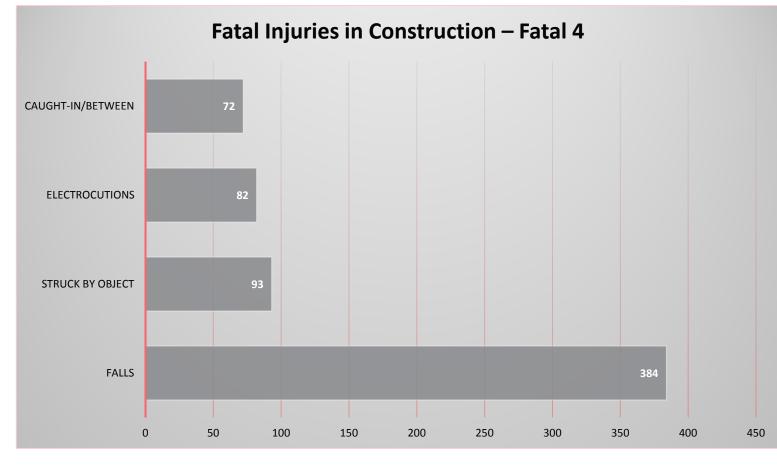
Statistics – General Industry



Fatal occupational injuries by major event, 2015



Statistics – Construction Industry 2017



Eliminating the Fatal Four would save 631 workers' lives in America every year.

Caught-in/between category includes construction workers killed when caught-in or compressed by equipment or objects, and struck, caught, or crushed in collapsing structure, equipment, or material



Costs of Accidents

Direct costs:

- Cost of treatment
- Cost of physician and hospital
- Cost of medications
- Claim Cost
- Administrative Cost





Costs of Accidents

Indirect costs:

- Schedule delays
- Lower morale
- Increased Absenteeism
- Poor Customer Relations
- Re-training
- Accident Investigation Cost
- Accommodations/Modifications Made for Injured or Potentially Disabled Worker
- OSHA Fines



Elements of Safety & Health Programs



- Management commitment/assignment of responsibilities;
- 2. Safety communications system with employees;
- 3. System for assuring employee compliance with safe work practices;
- 4. Scheduled inspections/evaluation system;
- 5. Accident investigation;
- 6. Procedures for correcting unsafe/ unhealthy conditions;
- 7. Safety and health training and instruction; and
- 8. Recordkeeping and documentation.



Management Commitment

• Action Item 1: Communicate your commitment to Safety and Health Programs

- Establish a written safety and health policy statement signed by top management
- Communicate the policy to all workers, contractors, unions, supplier, visitors, customers, etc.
- Action Item 2: Define program goals and expectations
 - Establish realistic, attainable and measurable goals that demonstrate progress toward improving safety and health
 - Develop safety and health plans

• Action Item 3: Allocate Resources

- Integrate safety and health into planning and budgeting
- Allow time in workers schedule for participation

• Action Item 4: Expect Performance

- Define and communicate responsibilities and authorities for accountability
- Set an example for workers by following the same procedures



"What if we don't change at all ... and something magical just happens?"



Safety communications

- Action Item 1: Encourage workers to report safety and health concerns
- Action Item 2: Encourage participation in the program
- Action Item 3: Involve workers in all aspects of the program
- Action Item 4: Give workers access to safety and health information
- Action Item 5: Remove barriers to participation





Hazard Assessment

- Action Item 1: Collect existing information about workplace hazards
- Action Item 2: Inspect the workplace
- Action Item 3: Identify hazards associated with emergency and nonroutine situations
- Action Item 4: Characterize the nature of identified hazards, determine the controls to be implemented and prioritize the hazards for control



Hazard Control

- Action Item 1: Identify control options
- Action Item 2: Select controls / hierarchy of controls
- Action Item 3: Develop and update a hazard control plan
- Action Item 4: Select controls for emergency and non-routine operations
- Action Item 5: Implement selected controls in the workplace
- Action Item 6: Follow up to confirm that controls are effective
 - Recognize good behavior
 - Correct unsafe behavior Ask, Act, Follow-up – if need to retrain



Accident Investigation

- Action Item 1: Encourage incident reporting
- Action Item 2: Develop means of incident reporting / Procedure
- Action Item 3: Provide incident investigation training
- Action Item 4: Corrective action should be identified
 - in terms of not only how it will prevent a recurrence of the accident or near miss, but also how it will improve the overall operation.
- Action Item 5: Communicate Lessons Learned
 - review investigations of all accidents and near-miss incidents to assist in recommending appropriate corrective actions to prevent a similar recurrence



Education and Training

- Action Item 1: Provide program awareness training
- Action Item 2: Train workers on specific roles and responsibilities in the safety and health program
- Action Item 3: Train workers on hazard identification and controls



Methods to prevent/control workplace hazards:

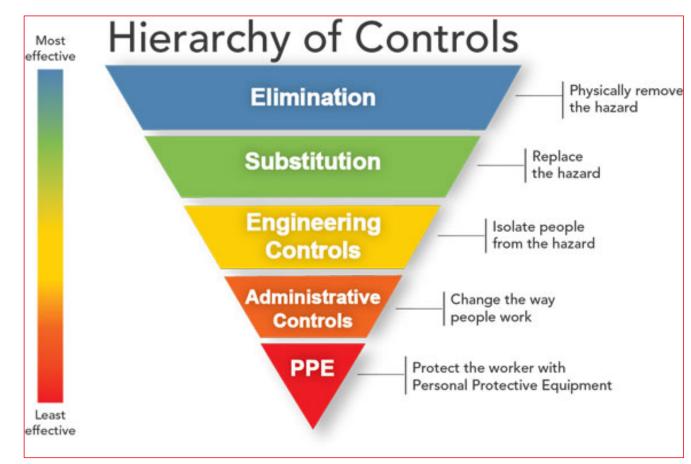
- Benefits of effective controls
 - Protect workers from hazards
 - Help avoid injuries, illnesses, and incidents
 - Minimize/eliminate safety and health risks
 - Help employers provide safe/healthful working conditions



- Involve workers
 - Understand conditions that create hazards
 - Insights into how hazards can be controlled



Identify and evaluate options





- Use a hazard control plan
- Develop plans with measures to protect workers during emergencies and non-routine activities
- Evaluate effectiveness of existing controls and review new technologies



Summary

- OSHA encourages employers to create a proactive approach for finding and fixing hazards in the workplace.
- An effective safety and health program increases worker involvement, management commitment and allows employers to better manager their resources, personnel and environment.



Prolog Converge

Submittals 8 **Request For Information** (RFI's)



Construction Management Software

Prolog – Software for Construction Management.

Used for: Office and Field Management

Collaboration

Cost Control Purchasing

We are going to focus on Collaboration, specifically Submittals and RFI's



Prolog Converge

<u>Prolog Converge</u> is the web based version of Prolog.

Prolog is a the Construction Management Software commonly used in the construction industry.



Benefits of Prolog Converge

- Collaboration with the General Contractor, Subcontractor, Owner, Engineer/Architect, others.
- One Software that all companies are allowed access to share project files like submittals/RFI's/Drawings/Inspection Requests/Etc.
- Immediate notification of Collaboration.....RFI Submissions, RFI responses, Submittals submitted, Submittal responses.



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Prolog Converge Login

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A0009 PCO-0002 Clarification	Blocka Construction Inc SanFrancisco Public 9/	5/2018 9/12/2018	<u>A</u>
A0010 Background Checks	Sundt/Walsh. A Joint Ve SanFrancisco Public 9/1	9/19/2019	۵
A0011 PCO No.003- CIDH Pile Testing	Shimmick Construction C SanFrancisco Public 9/1	2/2018 9/27/2018	<u>A</u>
A0012 Tree Removal, Protection, and Replacement Plan	Sundt/Walsh. A Joint Ve SanFrancisco Public 9/1	2/2018 9/14/2018	
A0013 Tree Removal, Protection, and Replacement Plan	Sundt/Walsh. A Joint Ve SanFrancisco Public 9/1	4/2018 9/28/2018	<u>a</u>
A0014 PCO No 002 - 12kV Cutover Duration	Blocka Construction Inc SanFrancisco Public 9/1	7/2018 10/2/2018	<u>a</u>
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A0017 Specification Section 31 13 13	Sundt/Walsh. A Joint Ve SanFrancisco Public 9/2	9/28/2018	<u>a</u>
A0018 Electrical Demo Drawing Changes	Blocka Construction Inc SanFrancisco Public 9/2	28/2018 10/19/2018	<u>a</u>
A0019 CIDH Pile Testing Meeting Questions	Sundt/Walsh. A Joint Ve SanFrancisco Public 10/	/5/2018 10/15/2018	
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Brian Causey	done outside of Building 521 (s	ee attached picture). The supp	orts will be mou	nted	
Author RFI Number	every 7'.				
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Answer Company	Answer		Add/View (Comments	
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SanFrancisco Public Otilities Commission	Proposed conduit support is ac engineer and submit conduit/b			^	
Answered By	installation. Coordinate with a			erfere	
Jim Wang	with work along SEP 042 in this	s contract.			
Co-Respondent					

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Field8	To view additional details about this RFI, you may open the attached PDF.		
Field1	To view the full RFI form in the Prolog Converge Web Client, click here.		
Project:	Ocotillo WRF		
RFI Number:	i124		
RFI Subject:	Blower Main Control Panel (PCP-449-100)		
	[12/21/2015 8:32 AM Sundt Construction, Inc. (I) - James Knudson] Keyed Note 17 on Page E-3.41 of the project plans indicates a "New Blower Main Control Panel PCP-449-100". Keyed Note 12 on the same page indicates "PCP-449-001 (BLOWER-PLC)".		
RFI Question:	Blower PLC PCP-449-001 is shown on P&ID Pages I-1.02, I-4.07 and I-4.08. It is also discussed in spec section 16161 – Control Panels, spec section 17454 – Control Description and 17456 - Programming. K&F has received an		

Should the existing "Blower Main Control Panel" (Keyed Note 8) stay in place? If so, what will be the function of this panel?

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RFI-i124 has been answered for Ocotillo WRF

Brandy Nixon

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CC:	Andrew Rogers ; Bill McEldowney ; BJ Peterson ; Brandy Nixon ; Chris Sherman ; Damien Tonnelle ; Dan Hageman ; Dan Ward ; Ed McCurdy ; Haley Tressider ; Harsha Sharma ;	\bigcirc
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RFI Response Received

The following RFI has received a response. Please review the answer. If there is a time or cost impact, you must submit a change quotation immediately to Sundt for approval. Do not proceed until you receive written approval from Sundt in regards to your change quotation. Failure to respond within seven days signifies there is no adjustment to your subcontract terms in time and direct or indirect costs. If responding with a Change Order Request, please reference the RFI number on your itemized quotation.

- Field9 To view additional details about this RFI, you may open the attached PDF.
- Field7 <u>To view the full RFI form in the Prolog Converge Web Client, click here.</u>

Project:	Ocotillo WRF
RFI Number:	i124
RFI Subject:	Blower Main Control Panel (PCP-449-100)
	[12/21/2015 8:32 AM Sundt Construction, Inc. (I) - James Knudson] Keyed Note 17 on Page E-3.41 of the project plans indicates a "New Blower Main Control Panel PCP-449-100". Keyed Note 12 on the same page indicates "PCP-449-001 (BLOWER-PLC)".
RFI Question:	Blower PLC PCP-449-001 is shown on P&ID Pages I-1.02, I-4.07 and I-4.08. It is also discussed in spec section 16161 – Control Panels, spec section 17454 – Control Description and 17456 - Programming. K&F has received an approved submittal for this panel and are in the process of building the equipment.
	The only reference we can find to PCP-449-100 is in the note on page E-3.41 discussed above. We are unable to find any information regarding the design, programming or function of this panel.
	Should the existing "Blower Main Control Panel" (Keyed Note 8) stay in

Should the existing "Blower Main Control Panel" (Keyed Note 8) stay in place? If so, what will be the function of this panel?

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002	0030	0	43 25 00	1.03.B.2	Pump Outline Drawing		Shape Inc		9/12/2018	3	No Exceptions Noted	Daniel Hageman		10/20/2018	
003	0031	0	43 25 00	1.03.B.3	Discharge Elbow Drawing		Shape Inc		9/12/2018	3	No Exceptions Noted	Daniel Hageman		10/20/2018	
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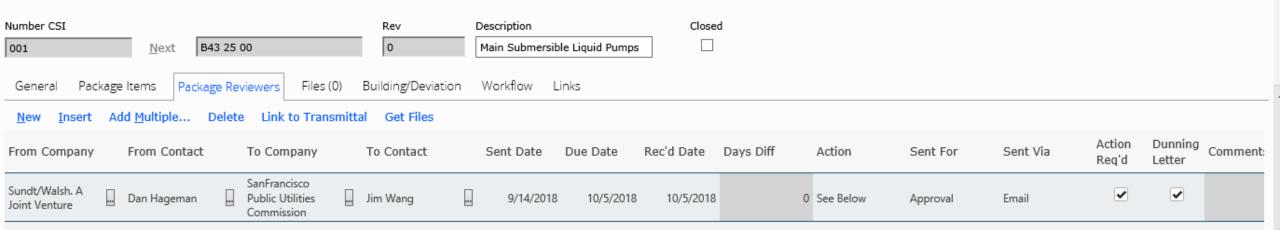
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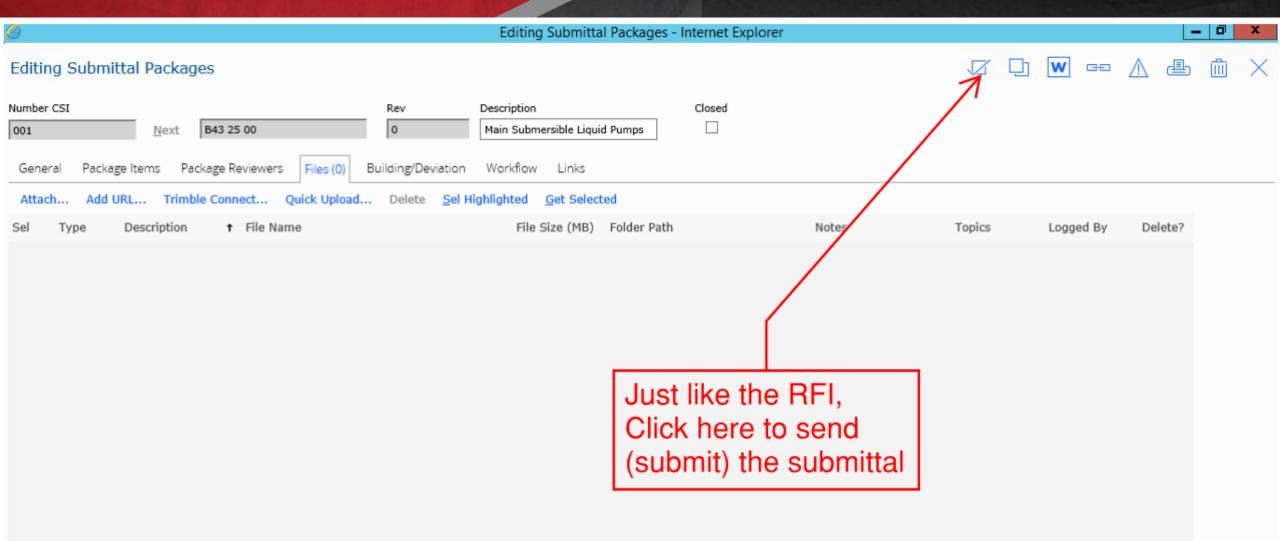
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RE: Submittal Package e1131	2D-02-0 is ready for your review.			
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RE: Submittal Packag Daniel A Hageman	ge e11312D-02-0 is ready for your rev	view.		
To: Susan Se				
	October 31, 2016 11:54:56 AM			
Identification	October 31, 2016 11:55:08 AM			
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From: Dan Hageman [mailt Sent: Monday, October 31, To: Susan Searcy	<u>o:dahageman@sundt.com]</u> 2016 10:57 AM			
Cc: Anthony Panzica; BJ Pe		harpe; Dan Hageman; Dan Ward; David	d Dieffenbach; Dylan Hess; Erin Robb; Gina Ishida-Raybourn; Haley Tressider; Michael Carzo; Michael Gruey; Nathan Patton; Ryan Nordquist; Sagrado Sparks; Steve Sampognaro; V	/es Vaden
Subject: Submittal Package	e11312D-02-0 is ready for your review.			
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The following Submittal Pac	kage is pending your review.			
F To view addition	al details about this Submittal Package you may ope	n the attached PDF.		
Fi <u>To view the full</u>	Submittal Package form in the Prolog Converge Wel	o Client, click here.		
Project:	OWRF Expansion			
Submittal Package #:	e11312D-02-0			
Description:	Preliminary O&M: Vertical Turbine Pumps			
Trade:				
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Submittal Package e11312D-02-0 has been reviewed.

Susan Searcy

To:	Dan Hageman	
CC:	Anthony Panzica ; BJ Peterson ; Brad Tackett ; Charles Doubet ; Cooper Sharpe ; Dan Ward ; David Dieffenbach ; Dylan Hess ; Erin Robb ; Gina Ishida-Raybourn ; Haley Tressider ;	$\hat{}$
Sent On:	Wednesday, November 16, 2016 1:38:15 PM	
Archived On:	Wednesday, November 16, 2016 1:38:46 PM	
ldentification Code:	eml:4b613956-21d3-4228-ae3e-82457c6000d2-2147236617	
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Field6

Submittal Package Has Been Reviewed

The following Submittal Package has been reviewed.

Field8 To view additional details about this Submittal Package you may open the attached PDF.

Field3 To view the full Submittal Package form in the Prolog Converge Web Client, click here.

 Project:
 OWRF Expansion

 Submittal Package #:
 e11312D-02-0

 Description:
 Preliminary O&M: Vertical Turbine Pumps

 Trade:
 Preliminary O&M: Vertical Turbine Pumps

The Good & The Bad

- Good: Project documentation is electronic and at your fingertips. Avoids the office clutter.
- Good: The Email notifications allow you to keep up to speed on the project documentation being issued and responded to.
- Good: Real time tracking of the progress of the RFI or Submittals.
- Bad: <u>The volume of</u> Email notifications might be overwhelming especially if the subjects are not related to your scope of work.

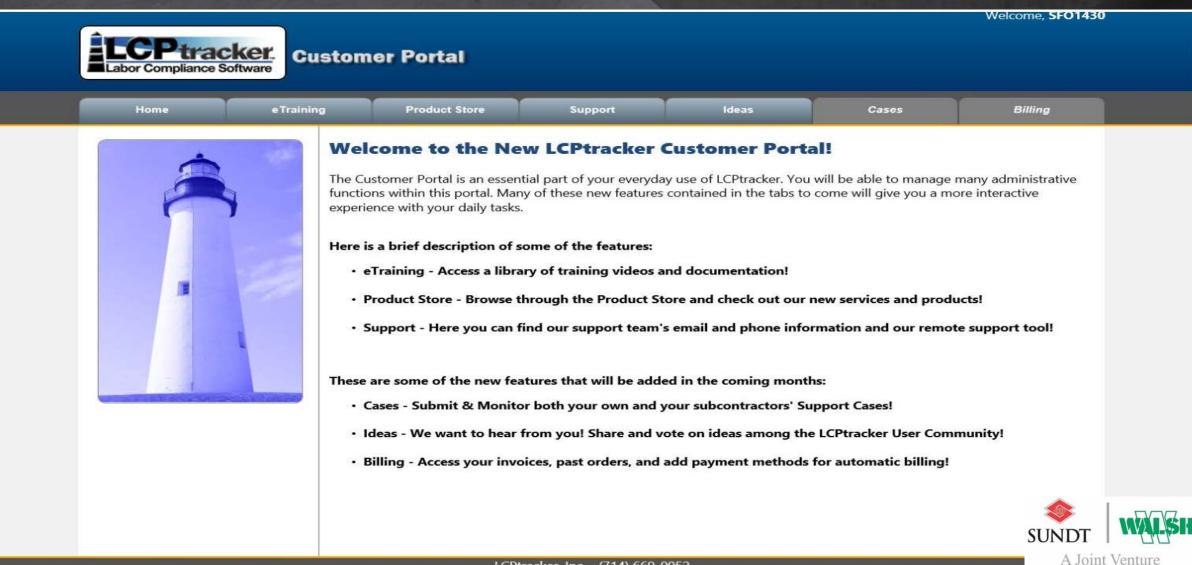


Other Software:

- Certified Payroll
- Textura



LCP Tracker



Department of Industrial Relations

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You can also type pa	art of a wor	rd in any optio	nal field to run	a wildcard searc	h. For example, if yo	u enter "Sa	n" as yo				
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Department of Industrial Relations

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Enter Invoice for Draw #4. Approve Invoice for Draw #4. traw #6(6 (Nov 2018)) Enter Invoice for Draw #6. Send to Signer for Draw #6. Approve / Reject Invoices	22-Nov-2018		
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A Joint Venture