

GLDD COMMITMENTS TO THE STATE OF KANSAS

- ***Our IIF safety culture will ultimately define our success on this project.***
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WHY DREDGE JOHN REDMOND RESERVIOR

John Redmond:

Federal Owned & Managed

State controls water rights

Main Uses

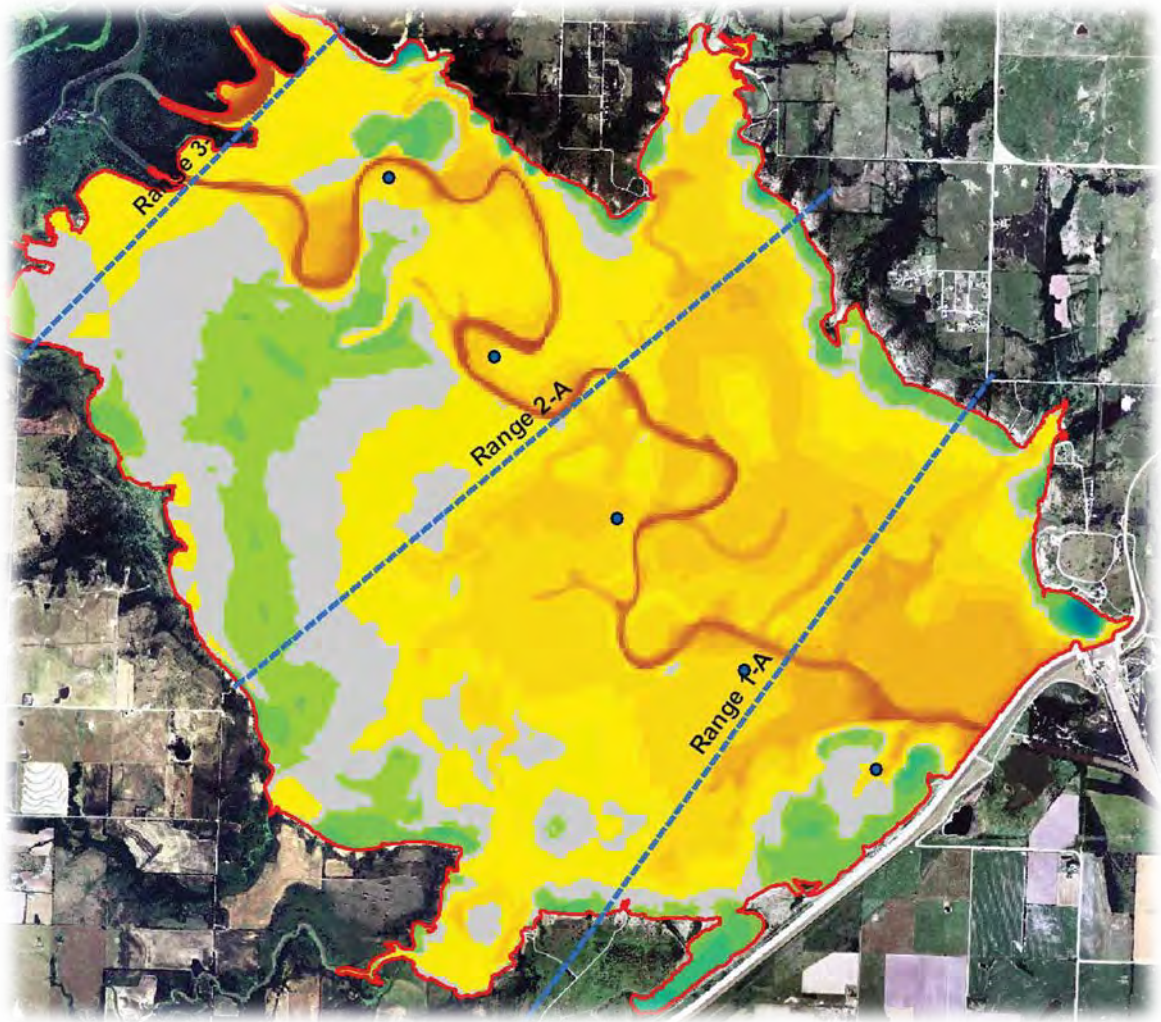
- Water Supply
- Flood Control
- Recreational

Constructed in 1964

Design Life – 50 years

Why Dredge

- 40% of loss of Capacity
- Long term Commitments

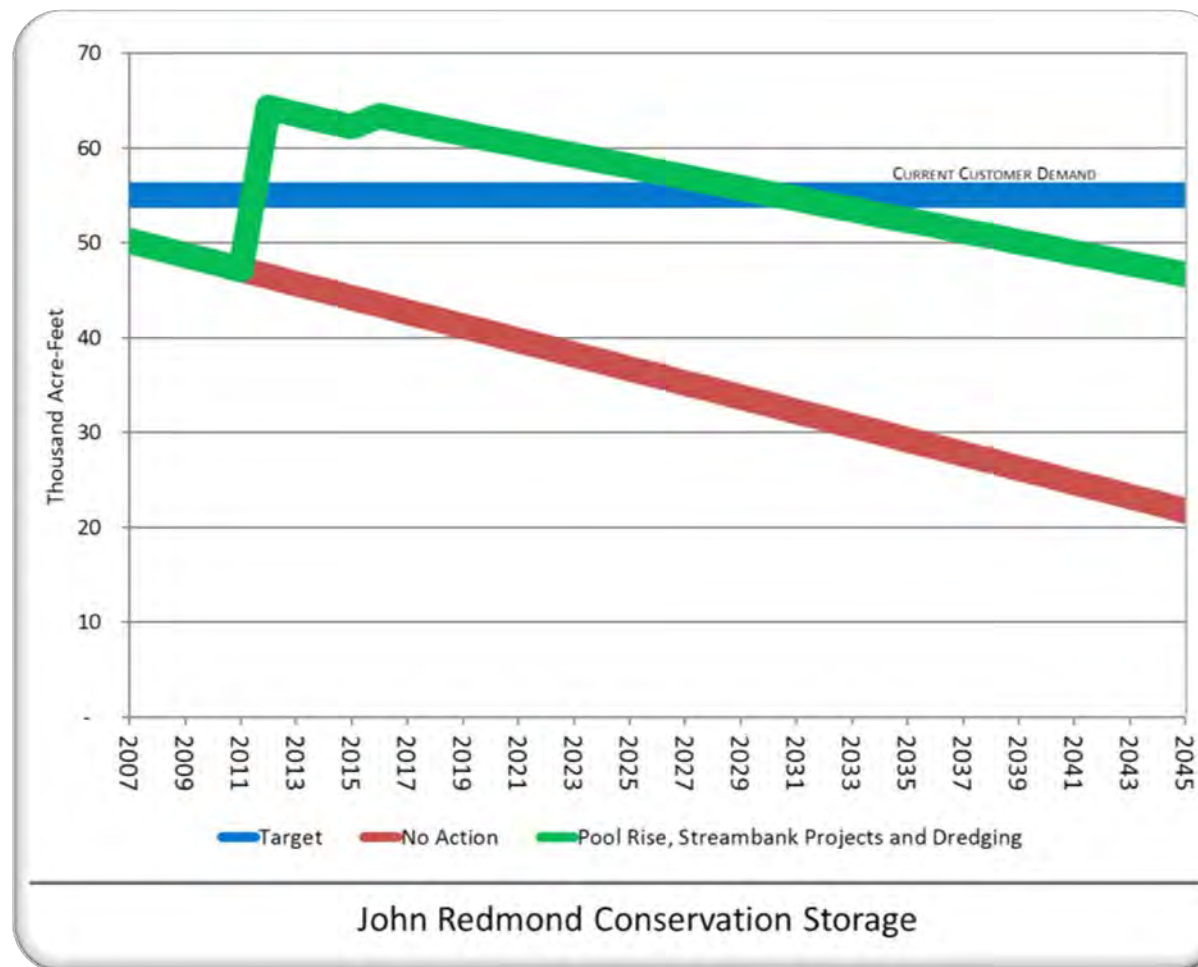


WHY DREDGE JOHN REDMOND RESERVIOR KANSAS RESERVOIR LOSS OF CAPACITY

To Meet Commitments:

Two Major Actions:

1. Pool Elevation increase was approved & implemented
2. Dredging:
 - Design Dredge Contract awarded to GLDD May 2013
 - Dredging completed October 2016



Bid Parameters – guidelines to receive pricing for Design-Dredge

- Dredge 3,000,000 CY
- Number of Confined Disposal Areas (CDF) = 1 of 300 acre
- Average Pumping Distance = Not to Exceed 12,500 LF
- Gravity Feed of Effluent Discharge back to JRR
- Return CDF's back to Agriculture Use

Final Design

- Dredge - 3,000,000 CY
- Number of CDF's – Five (5) for a total of 290 acres
- Average Pumping Distance = 32,500 LF
- Return CDF's back to Agriculture Use

Guidance from KWO

- Dredge 3,000,000 CY
- Within the State Budget



DESIGN TEAM – PERMITS SECURED

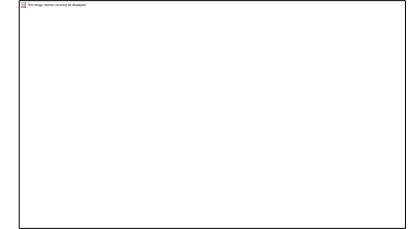


PERMITS SECURED DURING DESIGN STAGE

- Section 408 Request/Programmatic Environmental Impact Statement - No Significant Impact
- Supplemental Environmental Assessment Finding for CDF's - No Significant Impact
- Section 106 Programmatic Agreement to ensure compliance of the National Historic Preservation Act
- Section 404 Permit for slurry pipeline cross of the Neosho River
- Dam Safety Permits from DWR for all CDFs
- Floodplain Fill Permit from DWR for CDFs
- Stream Obstruction Permit from DWR for dredge pipeline crossing of the Neosho River
- Water Term Permit from DWR to use water from Redmond for dredging purposes
- Notice of Intent for Storm water Runoff from Construction Activities from KDHE
- NPDES Permit for discharge of effluent water to the Neosho River



JOHN REDMOND RESERVOIR DREDGING PARTNERS



**Schmidt
Excavating**



**Henderson
Grading Inc**



Phase I Construction Timeline

November 2015 – June 2016: Confined Disposal Facility (CDF) construction takes place

May 2016: Dredging operations begin

October 2016: Dredging operations completed

Late 2016: CDF dewatering efforts begin

2017 - 2020: CDF Reclamation



UPLAND CONFINED PLACEMENT AREAS



DREDGE MOBILIZATION



- Over 32,500 LF of Dredge pipeline
- Over 6,000 LF of Effluent Pipe
- Both Federal & Private Land
- Five (5) Road Crossings
- Five (5) Gas/Oil Pipeline Crossings
- One (1) River Crossing



➤ 22" Electric Dredge "LP"

- **22" Electric CSD "LP"**
- **Booster Pump Station**
- **32,000 lf of pipe**
- **Survey Vessel**



GREAT LAKES' SAFETY THE JOURNEY



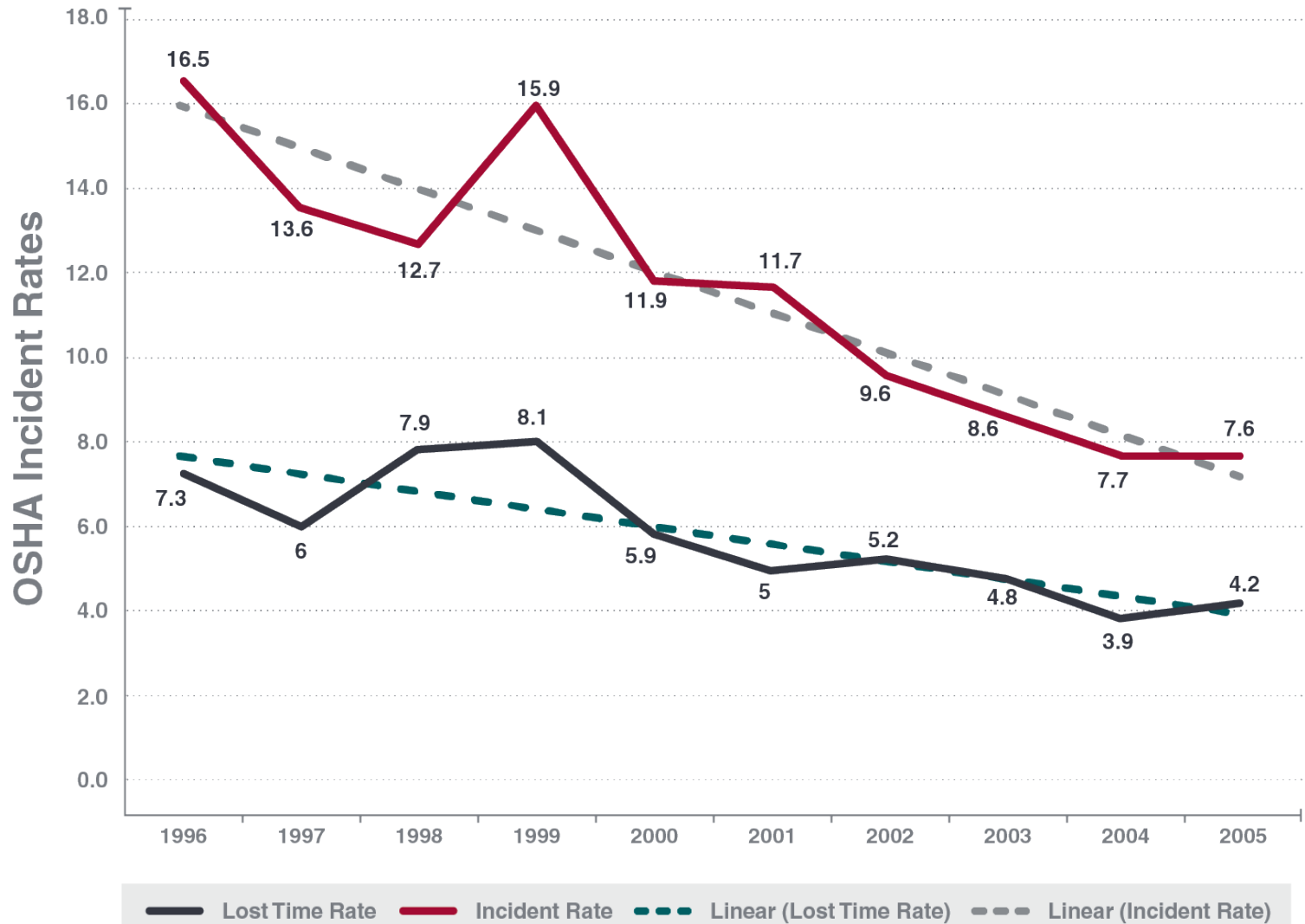
> GLDD Safety up to 2004

We had a typical 'traditional' safety structure—with a TRIR drop of 50% between 1996 and 2004—and thought we really had dredging safety figured out.

1996	1999	2001	2002	2004
Started to develop formalized safety department	Implemented responsible carrier program (tugboats) Input EM 385	Implemented international safety management code	Implemented dredging safety management program (all operations)	Significant progress in 9 years safety department (staff of 9) implemented standardized procedures, policies, company safety manual safety training



> GLDD Incident Rates (Incidents X 200,000/man hours)





“Hey, we work in rough offshore conditions with heavy floating equipment. People are going to get hurt.”

“What do you expect—this is dredging!”



> WHAT LED US TO SEEK A CHANGE IN SAFETY CULTURE?

We Had Hit a Brick Wall

- > Gains became more difficult to achieve
- > Great systems, procedures, and training in place, but people were still getting injured

Where Do We Go Next?

- > Something was missing and frustration was setting in
- > We didn't know how to break through to the next level in safety performance



HIGH PERFORMANCE SAFETY INCIDENT AND INJURY FREE (IIF)



- > A process of 'realignment of a company's safety culture developed by JMJ Associates
- > A change in safety attitudes from simple compliance with rules and regulations to a mindset that intends to eliminate work related incidents and injuries all together.
- > Chevron, Skanska, Bovis, and several other larger international companies had embraced IIF
- > Manson 2004, Great Lakes 2005, Weeks 2008



GLDD – IIF SAFETY CULTURE



INCIDENT & INJURY FREE

**It's about taking responsibility for
your own safety and the safety of
those who work with you**

**It's about planning activities
and asking questions**

**It's about speaking up when
you see something unsafe**

**It's about caring for
your coworkers**

**It's about acknowledging
your importance to the
company and that of
your colleagues**

**It's changing from complying
with safety practices to adopting
them as the standard**

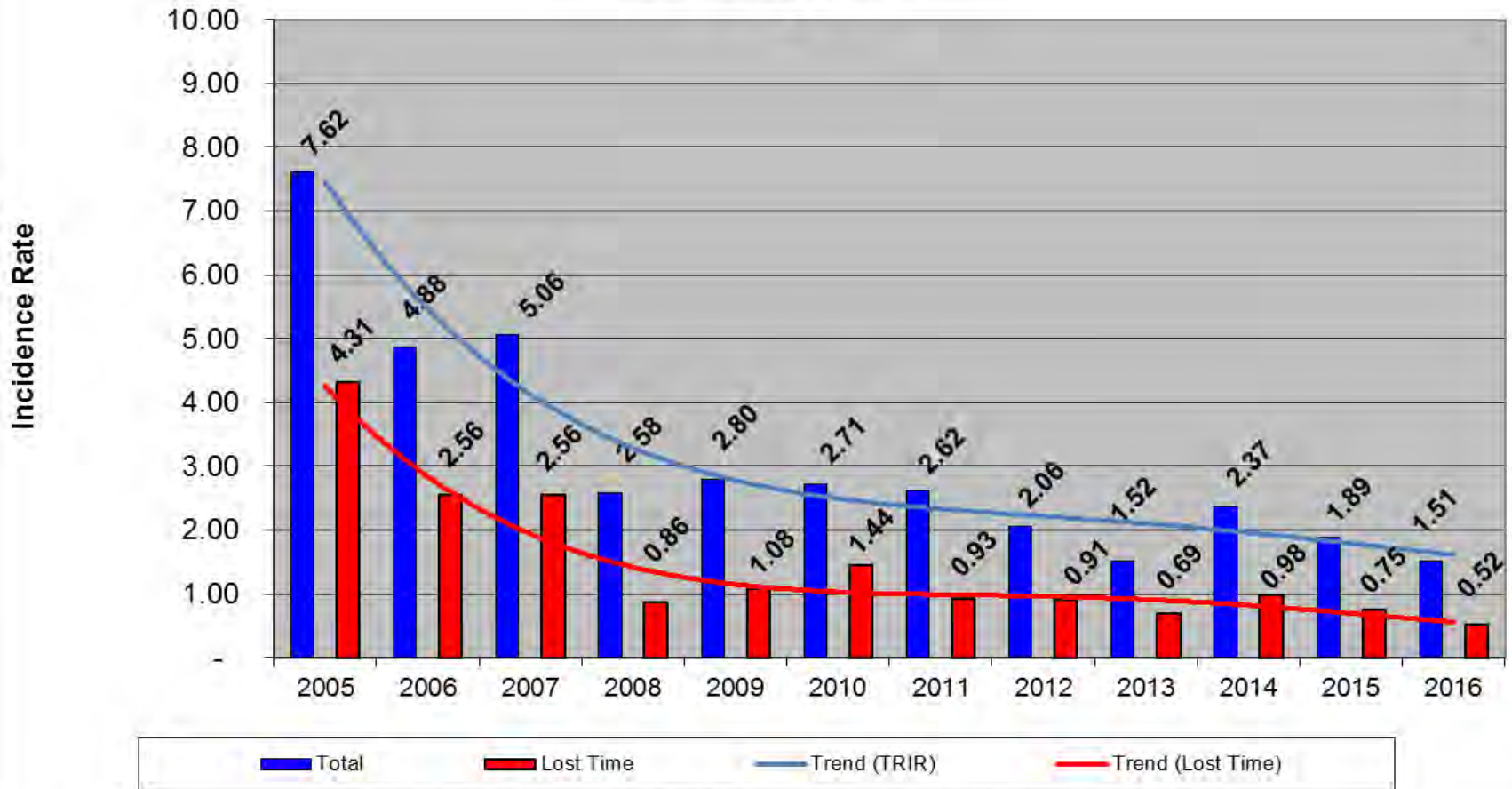
**It's about choosing to follow
safety rules because you
want to, not have to**



It's about going home safely and sound every day !

Safety culture

Great Lakes Dredge & Dock Company
Personal Injury Incidence Rates
2005 through 2016



Total Recordable Incidence Rate = (# of injuries & illnesses ÷ total hours worked) X 200,000



> CURRENT SUCCESSES

- ▼ Decrease in incident claims and medical costs
- ▼ Significant reduction in insurance premiums
- ▼ Decrease in time spent by managers responding to incidents
- ▼ Reduction in equipment incidents & damage
- ▼ Decrease in employee recruitment/replacement costs

- ▲ Increase in historic gains in project size and complexity
- ▲ Improved communications throughout divisions
- ▲ Access to bidding opportunities
- ▲ Improved employee morale and productivity
- ▲ Increase in bench of “Great Lakes-grown” managers and leaders



2006 TO 2013 - 8 YEARS INTO OUR IIF JOURNEY

> THE HUMAN SIDE

If our 2005 Incident Rate was applied to the Man-Hours worked in 2013...

... 120 more employees would have sustained injuries on Great Lakes' projects last year than actually did.

The benefits of driving to 'Zero'

SAFETY

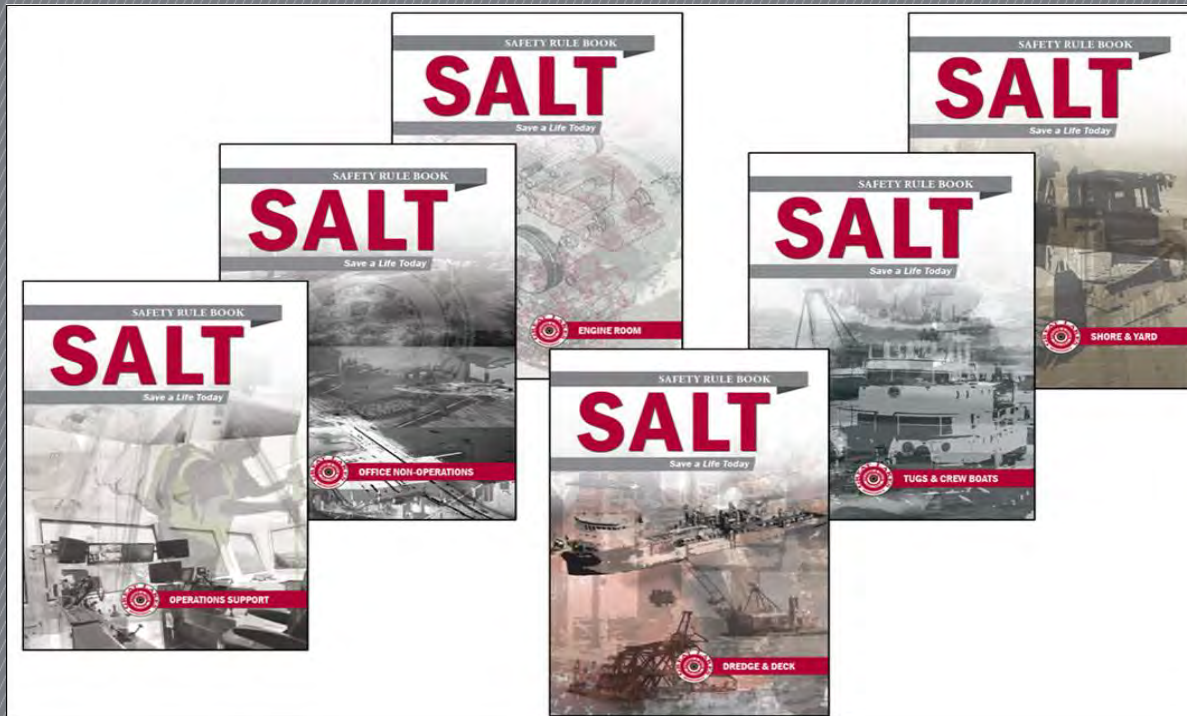


It's NOT just about YOU!



SUSTAINING INCIDENT & INJURY FREE (IIF)

- Safe a Life Today (SALT) Safety Rule Book
 - 6 Rule books developed by crew in 2013
 - Crews updated rule books in 2016



SUSTAINING INCIDENT & INJURY FREE (IIF)

➤ Life Saving Absolutes (Safety Accountability)



SUSTAINING INCIDENT & INJURY FREE (IIF)

- Safety Without Compromise Training (SWC)
 - Two (2) Day Course – both salary/hourly for all Operation Personnel
 - Conveys GLDD Safety Culture
 - Strengthen Hazard Awareness
 - Focus on Mutual Accountability

Sustaining Incident & injury free (IIF)

SAFETY WEEK 2016

- Great Lakes Dredge & Dock Activities
 - Sent 1800 Safety Care Packages to all Employees Homes
 - Over 800 GLDD employees participated at all projects, yards and offices
 - Wellness Training / Health Screening
 - Office Ergonomics
 - Blood Drive
 - Vessel Drills
 - Rigging Seminars
 - Fatigue Management



> CURRENT & FUTURE WORK



- > Leading success indicators
- > Reliability Assured Maintenance – builds on IIF
- > MCIA Remedial Measures improvements
- > SALT reinforcement
- > Significant Incidents and Fatalities (SIFs) Filter
- > New subsidiaries into Great Lakes IIF brand



We are Stronger & Safer Together



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Partnering - Our success on this contract is due in large part to the guidance provided by the KWO, USACE and all the State and Federal Agencies who ensured that all aspects of the project are environmentally sound.

Safety - Was John Redmond Reservoir through the completion of Dredging IIF? - **YES**

- Over 60,000 work hours
- No recordable Incidents
- No recordable injuries

Dredging Experience - GLDD started operations in 1890 and has grown over its 126 year history into an organization that has completed projects on six continents. largest and most successful dredging company in the United States.



QUESTIONS

