



BARNHART

ENGINEERING WHITEBOARD REVIEW

Safety Excellence Awards Best Practices



WHO IS BARNHART?

Company Overview

Barnhart has built a nationwide reputation for solving problems.

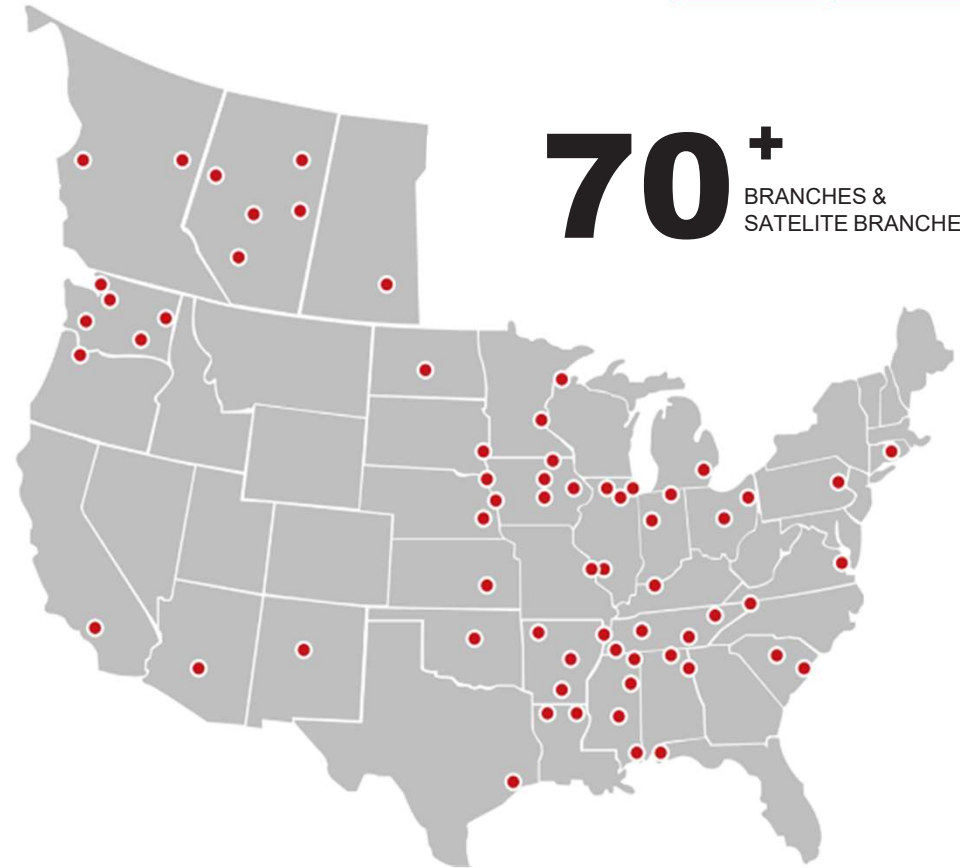
We specialize in the lifting, heavy-rigging and heavy hauling of major components used in various industries across North America.

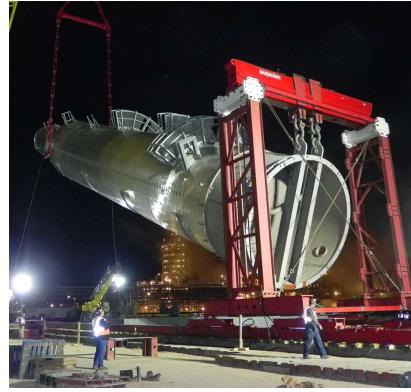
Barnhart's is committed to continuous improvement and to being the **safest** heavy lift and heavy transport company.



BARNHART

70⁺
BRANCHES &
SATELITE BRANCHES





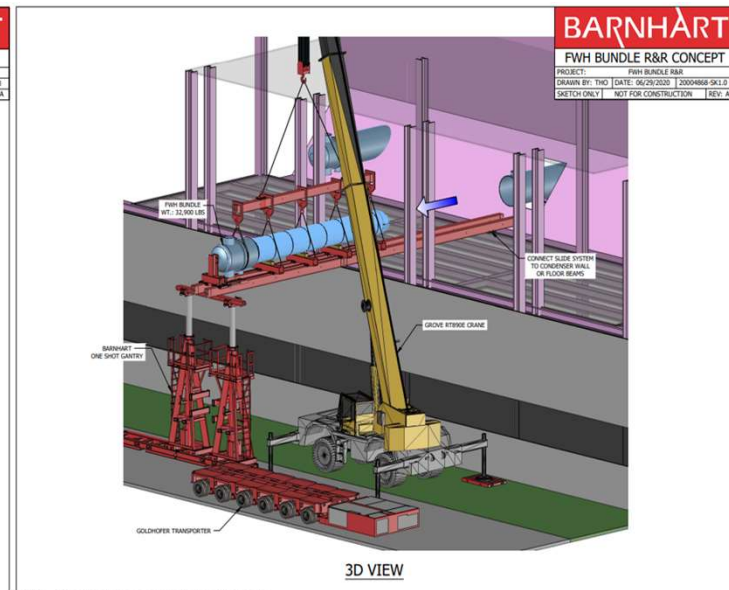
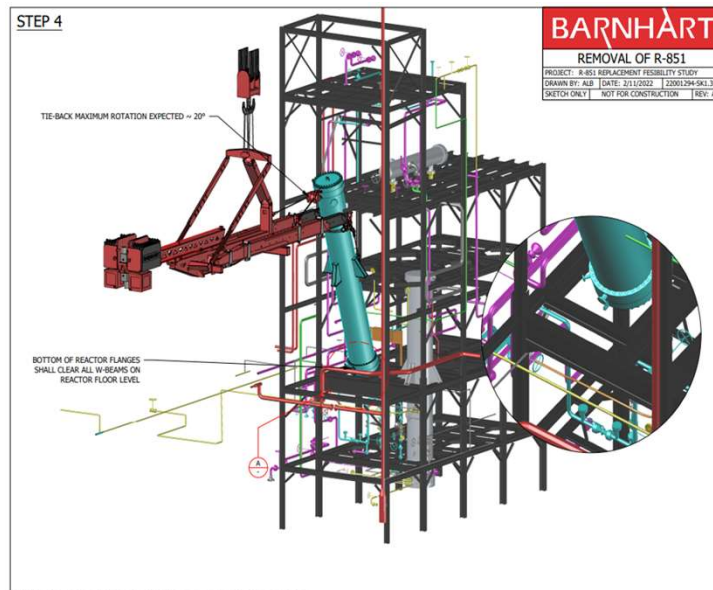
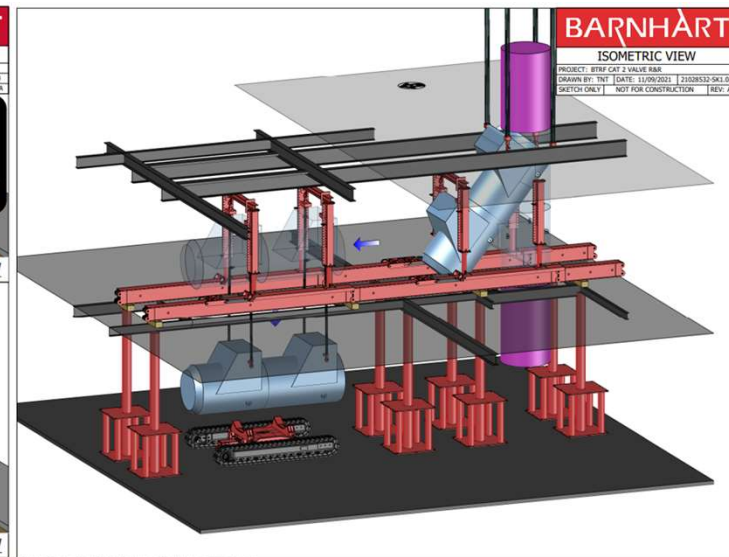
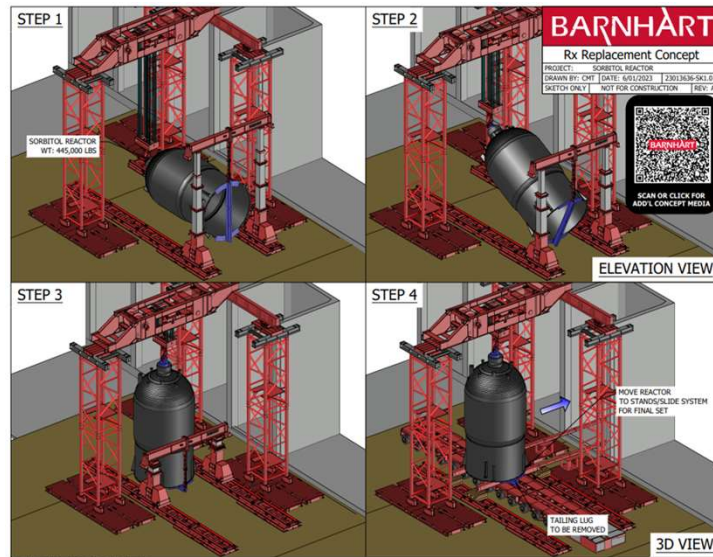
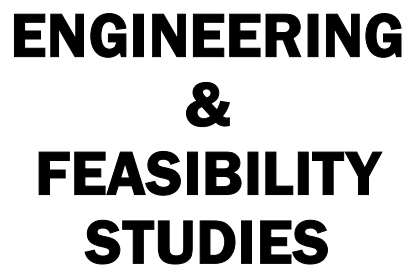
CRANE & RIGGING





OVER THE ROAD HEAVY HAUL & ONSITE TRANSPORT





RISK BASED SAFETY



To meet our goal of **Target Zero**, we have innovated a new paradigm for safety that provides the basis for training and operational excellence called **Risk Based Safety**.

- Employees manage risks instead of safety.
- In comparison to compliance based (following rules and policies). Employees considers changes in risk.
 - **THINKING:** Requires the risks to be assessed
 - **MITIGATION:** Proper actions taken to minimize risk
 - **COMMUNICATION:** Continuous improvement through communicating lessons learned



WHAT RISK BASED SAFETY DOES

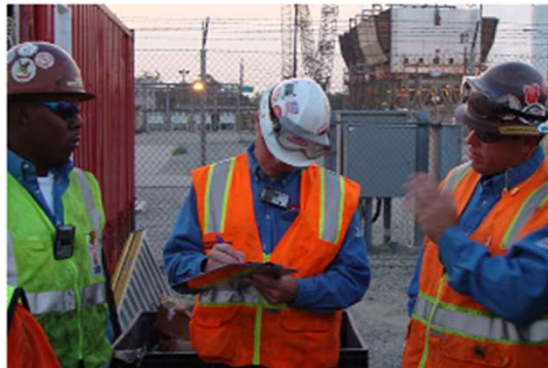


- Empowers all employees to be actively engaged in safety
- Changes language on coaching
- Impacts personal behavior
- Impacts all areas of operations. From project planning, project management, and execution of work down to toolbox talks, job hazard analysis and even post work reviews

What can go wrong?

What are the potential results?

What am I going to do about it?



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ENGINEERING WHITEBOARD

2023 Best Practice



THE PROBLEM

Project pre-planning, while essential for successful execution, can also present significant safety challenges.

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THE ISSUES SURROUNDING THE PROBLEM



- Potential for incomplete or inaccurate risk assessments, which can lead to overlooked hazards and insufficient safety measures.
- Tight timelines and budget constraints may pressure teams to cut corners, compromising thorough safety evaluations.
- Communication breakdowns between stakeholders can further exacerbate these problems, resulting in misunderstandings about safety requirements and protocols.



ADDRESSING THE PROBLEM



Meticulous attention to detail and robust collaboration are vital to effectively address safety concerns during the pre-planning phase.



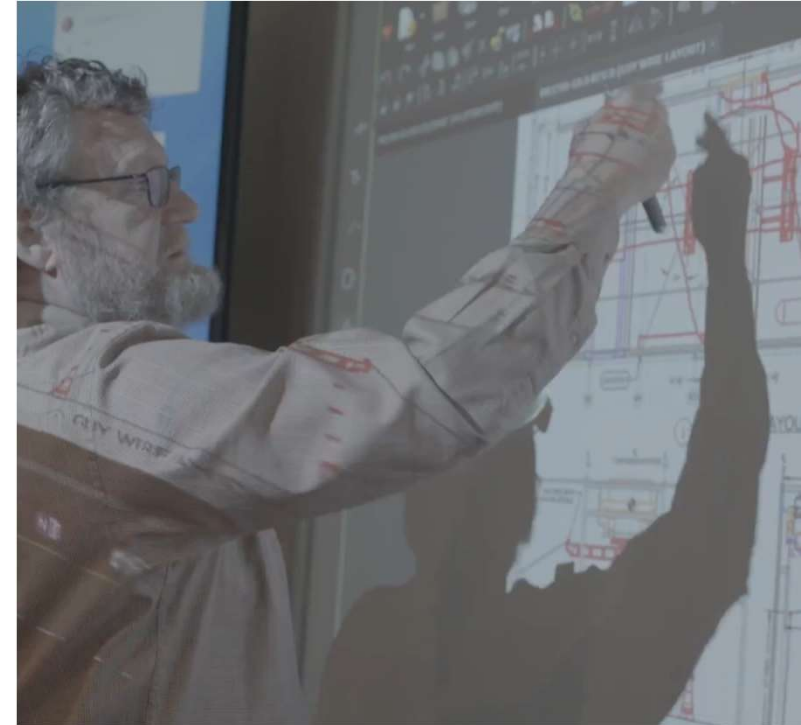
THE SOLUTION

BARNHART ENGINEERING WHITEBOARD REVIEW

Pre-planning and engineering play crucial roles in mitigating safety risks across various industries we work in.

- Barnhart Engineers & Clients have open discussions to identify potential hazards early in the pre-planning phase.
- Discuss viable options and alternatives based on past case studies
- Engineers and Safety Professionals can implement robust safety measures that minimize the likelihood of accidents.

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BUILT IN SAFETY

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The Barnhart Engineering Whiteboard Review ensures that safety is built into the project from the ground up, rather than being an afterthought, thereby protecting both workers and the public.



PROACTIVE APPROACH TO THE SOLUTION

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Proactive approach involves:

- Conduct thorough risk assessments
- Focus on integration of safety features into system designs
- Focus on development of execution method with client
- Focus on development of comprehensive emergency response plans for the project



WHITEBOARD ENGINEERING REVIEW

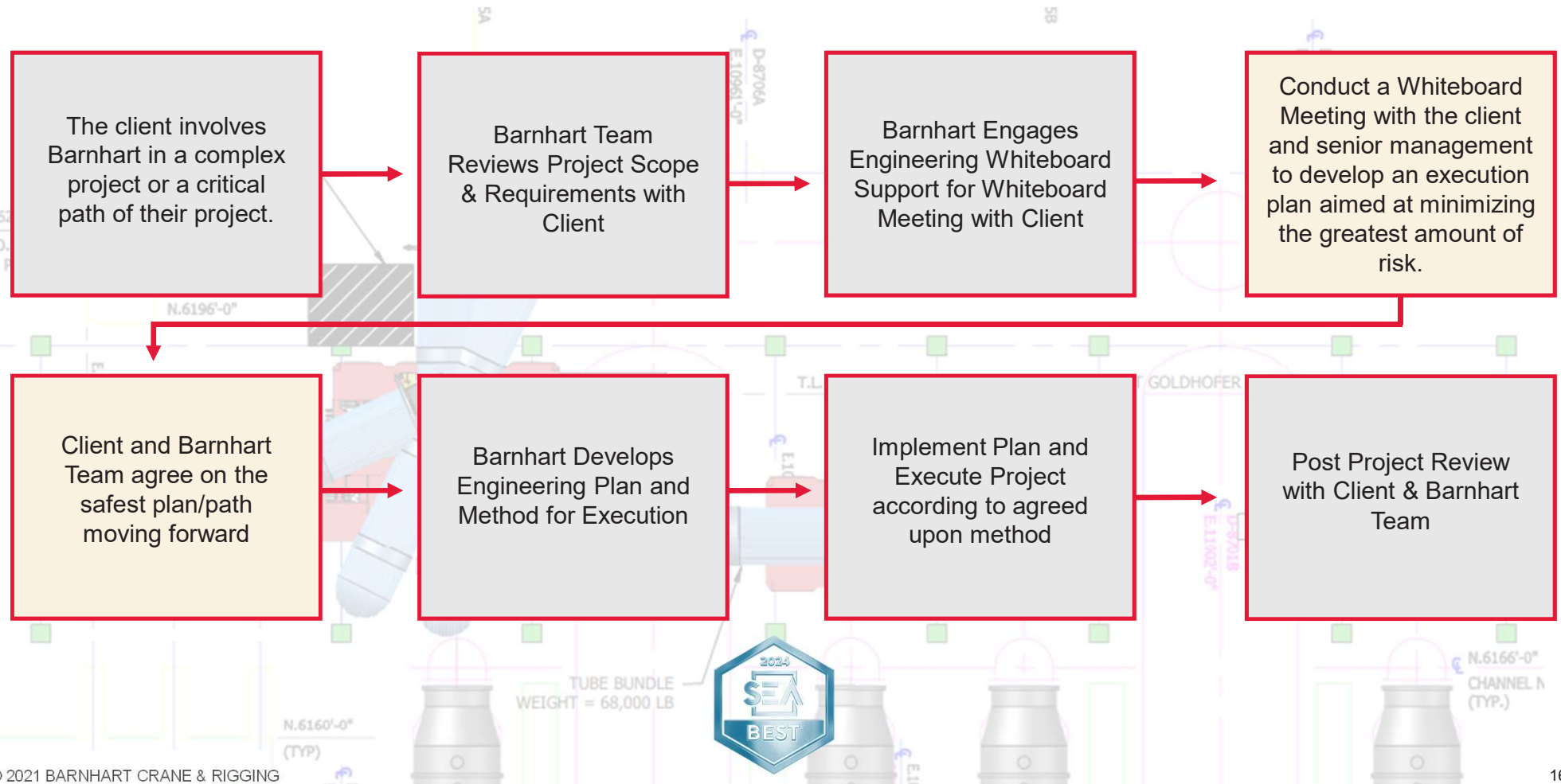


- Engages clients and senior engineering management to collaboratively develop robust solutions during the project's pre-planning stages.
- Integrates experts with extensive experience in operations, engineering, and safety.
- These discussions incorporate diverse perspectives and past experiences, fostering productive feedback.
- Facilitates valuable conversations, guiding the project towards the safest and most effective path forward.



WHITEBOARD ENGINEERING PROCESS

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WHITEBOARD ENGINEERING OVERVIEW



- Engineers have the ability to reserve 45 minute sessions in which they discuss issues with concepts or projects.
- Meeting is attended by the engineer that requested the meeting as well as the client, sales lead or project manager – goal is for the time to be collaborative and get insight from the Project team.

Topics to be reviewed and discussed include:

- Scope/Schedule/Budget
- Project Design Basis/Parameters
- Appropriate Equipment Selection
- Implantation of New Equipment/Innovation
- Lessons Learned From Previous jobs/Continuous Improvement
- Constructability, Operational Risk Assessment
- Compliance with Standards (internal, client standards, industry standards)





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THANK YOU

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