

Turnaround Efficiency & Safety

Three Basic Factors



Altair Strickland
Complete Critical Project Execution

CatCracking.com

MORE PRODUCTION - LESS RISK!

New Delhi, India • October 2013



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✓ Constructability

✓ Planning & Scheduling

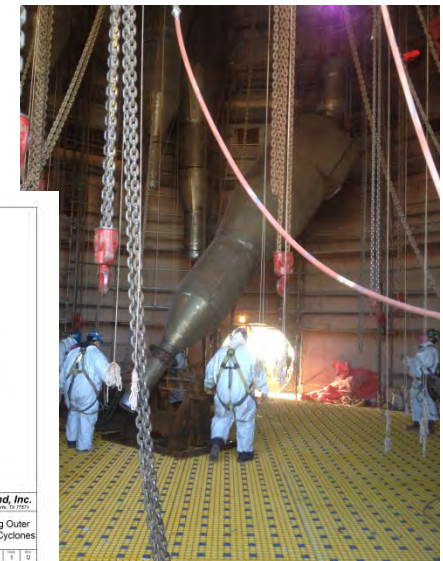
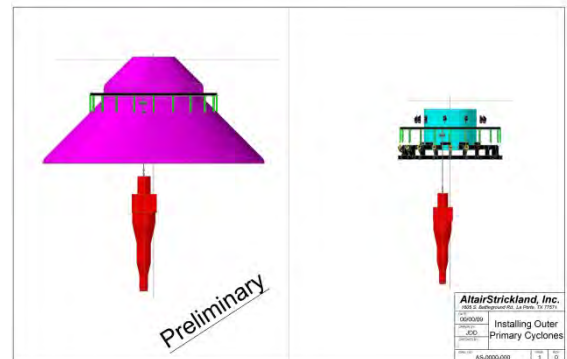
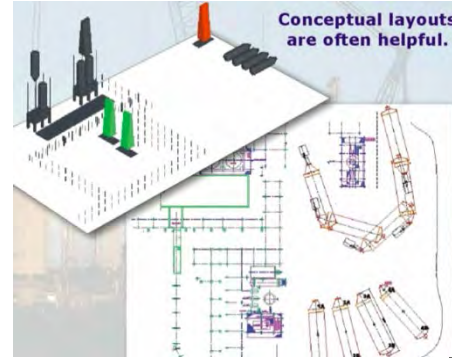
✓ Third Party Safety





✓ Constructability

- Execution driven engineering
- Crane evaluation
- Logistics planning
- Utilize experience to save time and money



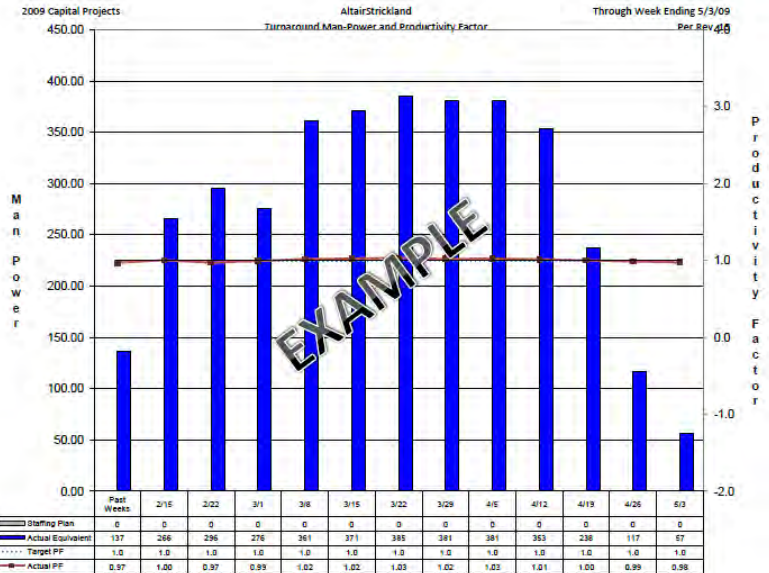


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- ✓ Planning & Scheduling
 - Planners involved during the work execution
 - Everyone must buy into the plan
 - Scope optimization
 - 3 day look aheads
 - Actuals vs. Estimated

Activity ID	Activity Name	Duration (Days)	Start Date	End Date	Progress (%)	Resources	Dependencies
SC Discipline: MILF Maintenance		860	20-Feb-11	11-May-11	0%		
SC Phase 3 Turnaround		860	20-Feb-11	11-May-11	0%		
FOCTAIR Start TA Work		0	20-Feb-11	11-May-11	0%	AS	MILE
FOCTAIR Complete TA Work		0	11-May-11	11-May-11	0%	AS	MILE
SC Discipline: DEC Decommissioning		9	20-Feb-11	29-Feb-11	0%		
SC Phase 3 Turnaround		9	20-Feb-11	29-Feb-11	0%		
AS12302 Remove piping under 2000 lb beam @ 217-3		10	20-Feb-11	29-Feb-11	0%	AS	DEC
SC Discipline: SS 217-3H MISC Steel Elevation 217-3		47	20-Mar-11	27-Mar-11	0%		
SC Phase 3 Turnaround		47	20-Mar-11	27-Mar-11	0%		
AS12310 Install four diagonals @ 217-3 12th floor		6	20-Mar-11	26-Mar-11	0%	AS	SS 217-3H
AS12302 Inspect four diagonals @ 217-3 12th floor		1	20-Mar-11	26-Mar-11	0%	AS	SS 217-3H
AS12330 Reinstall PP on four diagonals @ 217-3 12th floor		40	20-Mar-11	26-Mar-11	0%	AUTBA	SS 217-3H
AS12340 Remove scaffolds from @ 217-3 12th floor		4	20-Mar-11	26-Mar-11	0%	AUTBA	SS 217-3H
AS12350 Clean Up Work Area @ 217-3 12th floor		2	20-Mar-11	27-Mar-11	0%	AUTBA	SS 217-3H
SC Discipline: SS 230-6H MISC Steel Elevation 230-6		50	20-Mar-11	22-Mar-11	0%		
SC Phase 3 Turnaround		50	20-Mar-11	22-Mar-11	0%		
AS12302 Install Scaffolds For New Steel @ 230-6 11th floor		8	20-Mar-11	20-Mar-11	0%	AUTBA	SS 230-6H
AS12340 Receive Permit For New Steel @ 230-6 11th floor		1	20-Mar-11	20-Mar-11	0%	AS	SS 230-6H
AS12340 Build Fire Box For New Steel @ 230-6 11th floor		10	20-Mar-11	20-Mar-11	0%	AS	SS 230-6H
AS12340 Lay Out & Prep Beams @ 230-6 11th floor		10	20-Mar-11	20-Mar-11	0%	AS	SS 230-6H
AS12340 Fit & Weld Out Clips @ 230-6 11th floor		8	20-Mar-11	20-Mar-11	0%	AS	SS 230-6H
AS12350 Rig Beams To @ 230-6 11th floor		28	20-Mar-11	24-Mar-11	0%	AS	SS 230-6H
AS12310 Bolt Up & Impact Bolt On Beams @ 230-6 11th floor		10	21-Mar-11	24-Mar-11	0%	AS	SS 230-6H
AS12350 Rig Grating & Handrails To @ 230-6 11th floor		2	21-Mar-11	24-Mar-11	0%	AS	SS 230-6H
AS12350 Lay Grating & Screw Down To Beams @ 230-6 11th floor		12	21-Mar-11	24-Mar-11	0%	AS	SS 230-6H
AS12350 Install & Bolt Up Handrails @ 230-6 11th floor		4	20-Mar-11	22-Mar-11	0%	AS	SS 230-6H
AS12350 Clean Up Work Area @ 230-6 11th floor		2	22-Mar-11	22-Mar-11	0%	AS	SS 230-6H
SC Discipline: SS 245-6H MISC Steel Elevation 245-6		74	23-Mar-11	20-Mar-11	0%		
SC Phase 3 Turnaround		74	23-Mar-11	20-Mar-11	0%		
AS12310 Build Scaffolds For New Steel @ 245-6 12th floor		30	23-Mar-11	24-Mar-11	0%	AUTBA	SS 245-6H
AS12360 Receive Permit For New Steel @ 245-6 12th floor		1	24-Mar-11	24-Mar-11	0%	AS	SS 245-6H
AS12360 Build Fire Box For New Steel @ 245-6 12th floor		10	24-Mar-11	24-Mar-11	0%	AS	SS 245-6H
AS12360 Lay Out & Prep Beams @ 245-6 12th floor		10	24-Mar-11	24-Mar-11	0%	AS	SS 245-6H
AS12360 Fit & Weld Out Clips @ 245-6 12th floor		16	24-Mar-11	24-Mar-11	0%	AS	SS 245-6H
AS12360 Rig Beams To @ 245-6 12th floor		28	24-Mar-11	24-Mar-11	0%	AS	SS 245-6H
AS12310 Bolt Up & Impact Bolt On Beams @ 245-6 12th floor		10	25-Mar-11	26-Mar-11	0%	AS	SS 245-6H
AS12310 Rig Grating & Handrails To @ 245-6 12th floor		2	25-Mar-11	26-Mar-11	0%	AS	SS 245-6H
AS12310 Lay Grating & Screw Down To Beams @ 245-6 12th floor		12	25-Mar-11	26-Mar-11	0%	AS	SS 245-6H
AS12310 Install & Bolt Up Handrails @ 245-6 12th floor		4	25-Mar-11	26-Mar-11	0%	AS	SS 245-6H
AS12310 Clean Up Work Area @ 245-6 12th floor		2	26-Mar-11	26-Mar-11	0%	AS	SS 245-6H





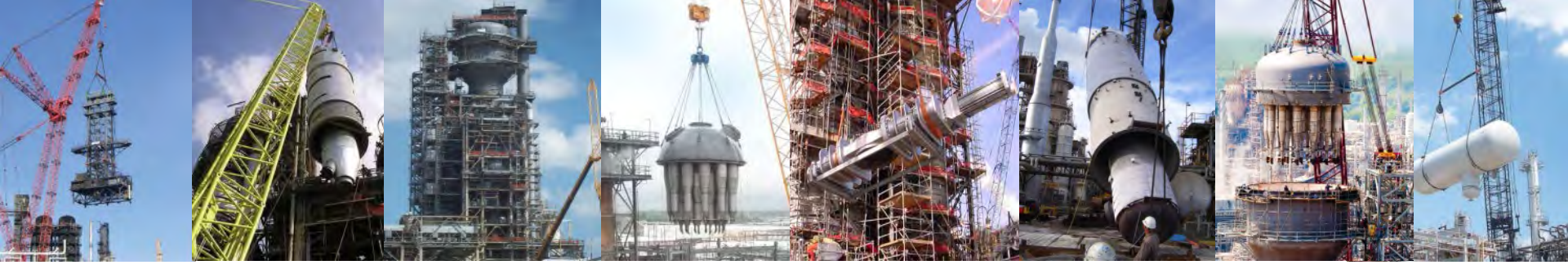
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✓ Third Party Safety

- Unbiased perspective
- Permit logistics
- Enforces your policies
- Eliminates Overhead
- Consistent Quality





Thank you



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