

- Aligning Owners and Contractors Expectations!
- Key success factors & challenges
 - Project objectives and priorities
 - Approaches to reduce risk
 - Management of Scope
 - Interface management



ENGINEERING & CONSTRUCTION CONTRACTING ASSOCIATION



Aligning Expectations



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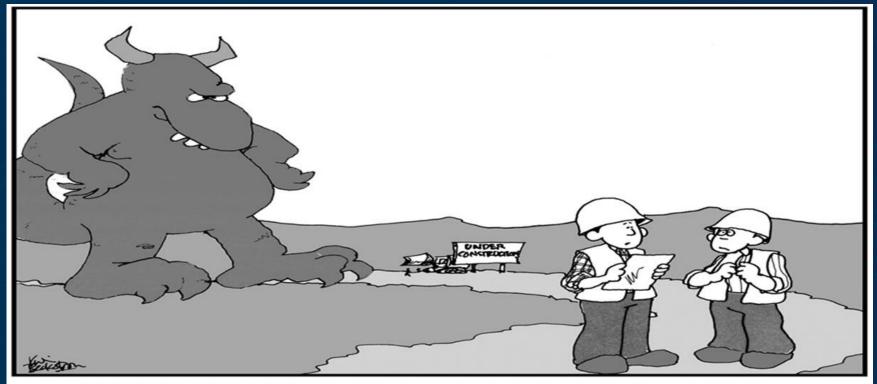
Principal

Ragsdale LLC



George Nash
President
Energy & Construction
URS

Do we have an Alignment Problem?



"Alignment problem? What sort of alignment problem?"

Audience Response

- 1. If Misalignment Where is the main cause?
 - 1. Owner Business Scope Owner
 - 2. Owner Procurement/Legal
 - 3. Owner Project Team
 - 4. Contractor Business development
 - 5. Contractor Project Execution Team





Aligning Expectations Between Owners and Contractors



Dean RagsdalePrincipal, Ragsdale Group L.L.C.

Alignment Definition

"Alignment is the condition where appropriate project participants are working within acceptable tolerances to develop and meet a uniformly defined and understood set of project objectives."

Construction Industry Institute (CII) *Best Practice Summary: 1.02 Alignment*

"... there is no known process or strategy in the industry that can be used to strategically align owner and contractor resources."

CII Report 111-2

Alignment

Generally:

Alignment between Owners and Contractors means:

Owners get a safe high quality project with cost and schedule certainty

 Contractors deliver a safe high quality project with cost and schedule certainty

Interview of Experts on Alignment Topics

Claim Expert One:

Claim Expert Two:

Alignment

Safety

Alignment

Misalignment

Scope of Work – FEED Documents are not Issue for Construction Quality

Contractor Promises "A" Team

Schedule Risk – Misunderstood

Misalignment

Safety

Scope of Work – Change Management

Scope of Work – Design Development

Schedule Management - Changes

Current Owner Contractor Alignment Methods

Contractor – Owner Alignment Sessions
 Bid Explanation, Two Way Contract Negotiation, Project Kick Off Meeting, Regular Alignment Sessions

Aligned

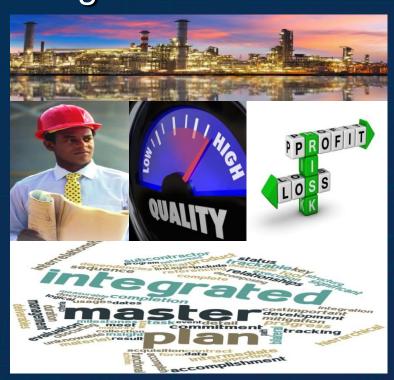
- 2. Executive Sponsor Programs
- 3. Contract Risk Apportionment between Owner and Contractor





Major Areas for Alignment / Misalignment

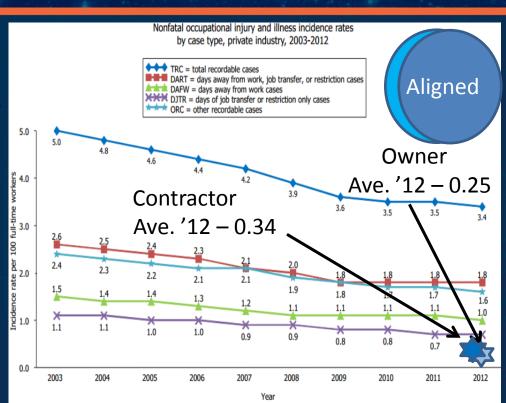
- 1. Safety
- 2. Scope of Work
- 3. Quality Requirement of Work
- 4. Schedule and Schedule Slip Risk
- 5. Cost and Cost Growth Risk
- 6. Change Management



Safety:

Measurement is very easy to understand by both Contractors and Owners.
Standard Method:

Rate/ 200K Man Hours





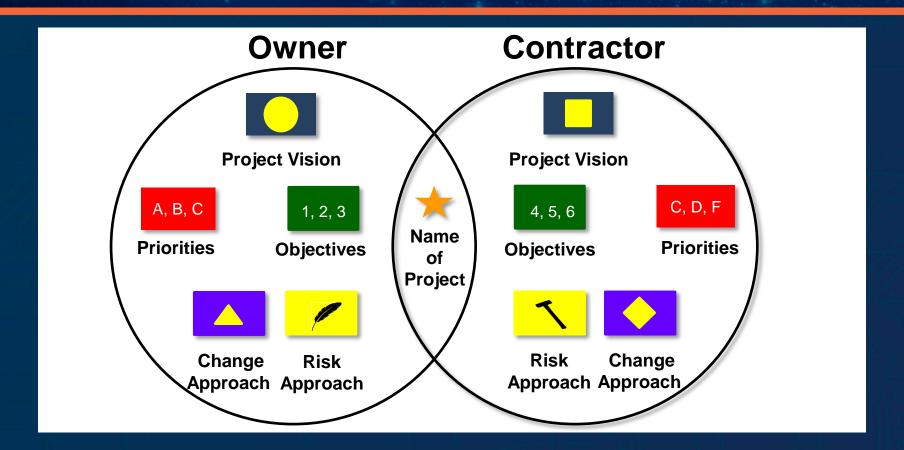


Aligning Expectations Between Owners and Contractors



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Q: How is this project going to work out?



A: You guessed it . . .

Fact:
 Owner-contactor
 misalignment is the
 Achilles Heel of
 project
 management.





Much has been written about correcting owner-contractor misalignment...

DETECTING STAKEHOLDER MISALIGNMENT

WRITTEN BY: George Konstantopoulos Project Times - January 19, 2011

Strategy Misalignment: The Symptoms, Dangers and Treatment

WRITTEN BY: Joe Evans

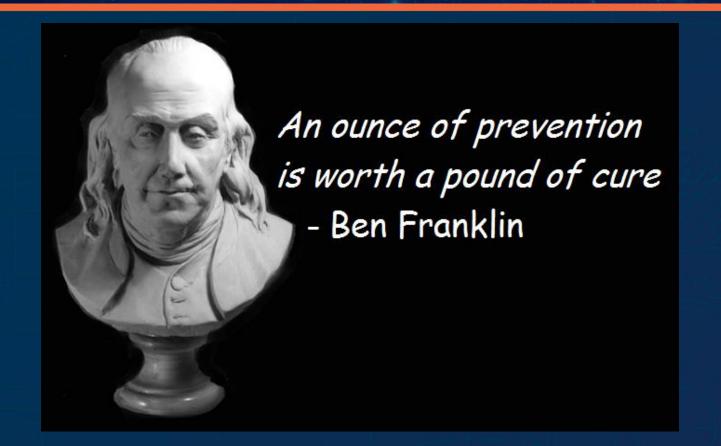
Method Frameworks - April 5, 2010

Chronic Misalignment

Why leadership's calls for better organizational alignment don't work & how a simple 'value language' can remove common barriers

WRITTEN BY: Gregory Dickinson and Michael Puleo Deloitte Review. n.d.

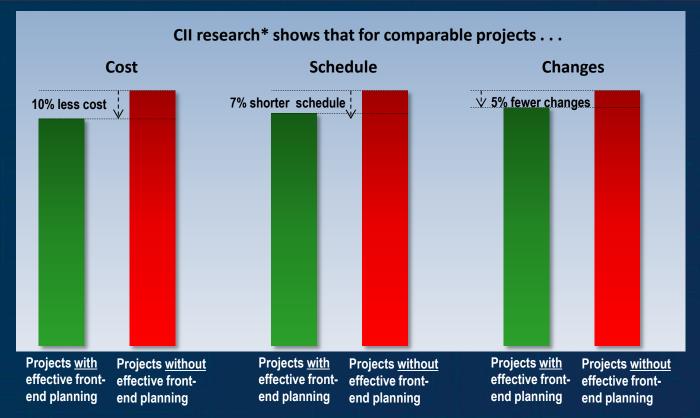
... but, in the words of Ben Franklin ...



The "ounce of prevention" is robust front-end planning . . .

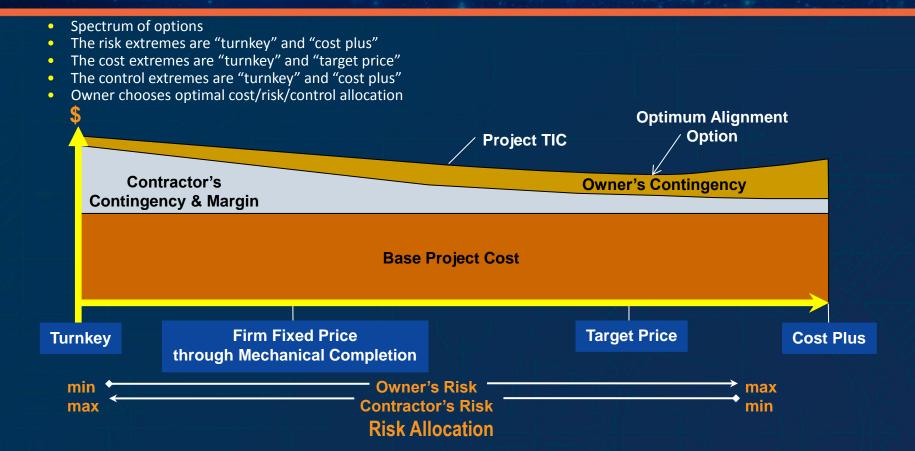


Industry research confirms the importance of front-end planning . . .



^{*} Source CII Research Team 213, Sample of 609 projects with total TIC of \$37B

Commercial Approach



Implementation and Opportunities

Contracting – Target Pricing Success

		Contract	Final	Over
Customer	Description	(\$M)	(\$M)	Under
Southern Company	4 FGD Retrofit	199	170 (est.)	(14.6%)
Wisconsin Energy	2 FGD & 4 SCR Retrofit	596	511	(14.3%)
Tennessee Valley Authority	3 x 1 GE 7FA Combined Cycle – 890 MW	168	141	(16.1%)
Tennessee Valley Authority	Nuclear Steam Generator Replacement	173	170	(1.7%)
Public Service of New Hampshire	FGD	320	301	(5.9%)
Entergy	Nuclear Steam Generator Replacement	192	185	(3.6%)
Constellation Energy	2 FGD	551	551	0.0%
Detroit Edison	2 FGD	364	365	0.3%
Tennessee Valley Authority	2x1 SW 501F Combined Cycle – 500 MW	255	331	29.8%
PSE&G	1 FGD, SCR & ACI	767	781	1.8%
SE&G	1 FGD, SCR & ACI	43	43	(0.0%)
Monongahela Energy*	2 FGD Retrofit	242	245	1.2%
ennessee Valley Authority	2 FGD Retrofit	403	422	4.7%
ennessee Valley Authority	1 FGD Retrofit	224	232	3.6%
Pacific Gas & Electric	Nuclear Steam Generator Replacement	288	253	(12.2%)
Exelon Corp	Nuclear Steam Generator Replacement	166	155	(6.6%)
leliant	1 FGD Retrofit	292	301	3.1%
alt River Project	400 MW Coal Project	59	64	8.5%
Allegheny Energy*	3 FGD Retrofit	298	337	13.1%
SEG	Nuclear Steam Generator Replacement	131	138	5.3%
Visconsin Electric	2x1 GE 7FA Combined Cycle – 500 MW	106	101	(4.7%)
Visconsin Electric	2 FGD & SCR Retrofit	229	242	5.7%
Detroit Edison	SCR Retrofit	110	104	(4.5%)
Visconsin Electric	2x1 GE 7FA Combined Cycle – 500 MW	186	204	9.7%
Ameren UE	Nuclear Steam Generator Replacement	111	105	(5.4%)
intergy	Nuclear Steam Generator and Reactor SGR and Vessel Head Replacement	102	95	(6.9%)
Detroit Edison	SCR Retrofit	124	120	(3.2%)
Visconsin Electric	SCR Retrofit	41	41	0.0%
Detroit Edison	SCR Retrofit	126	132	4.8%
Detroit Edison	4x1 GE 7EA Simple Cycle – 320 MW	37	37	0.0%
Cost Reimbursable		6,903	6,877	(0.38%)

Executed nearly \$7 billion in work, with an accrued result of (0.38%) below budget

Owner-contractor alignment do's and don'ts . . .

Element	Do's	Don'ts
Scope	Ensure scope defined in detail or if not, then initiate an initial phase to define the scope collaboratively	Proceed into an EPC/CM project with poorly defined scope
Risk	Place project risk with the party that has most control over the outcome	Assume both parties share a common vision of risk
Frontend Planning	Take time in the frontend planning to ensure scope is well defined, roles and risks are understood, and a sound execution strategy and plan is developed	Jointly give frontend planning short shrift in order to get shovels in the ground
Communication and Trust	Establish open, trusting communication	Allow "us vs. them" culture to develop
Surprises	 Prevent surprises through disciplined and effective project controls and regular joint project meetings 	Drop "bombshells" in interface meetings
Change Control	Establish the change control philosophy and methods upfront	Jointly confuse management of funding with change control

Scope of Work:

- Process Flow Diagrams
- Piping & Instrument Diagrams
- Electrical One Line
- Plot Plans
- Written Standards and Specifications

Owner Measurement: IPA Front End Loading Contractor Measurement: Unknown

Moderately Aligned



Quality Requirements of Work

- Quantitative
- Individually Defined / Corporately Defined
- Quality Systems ISO 9000s
- Lagging Indicator: Re-performance of work











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Owners View

- Safe Predictable Delivery
 - Quality, Cost & Schedule

- No Surprises
 - Alignment around objectives important

Owners View - What gets in way?

- Scope is it well enough defined?
- Perspective of "what good looks like"
- Allocation of risk appropriate ?
- Different business and financial drivers
- Custom-built versus Standard solutions

Owners View to Improve Alignment

- Fewer/Deeper Relationships
 - Repeat business with fewer providers Global Agreements
 - Get to know how to work well together
 - Current performance = Future business
 - Build Trust: willingness to listen & act on input
 - Seeking advice from contractors on how to do better based on their broader perspective

Fewer/Deeper Relationships – How?

- Get aligned at the top
 - Personal relationships do matter
 - Regular Executive Meetings Portfolio review
 - Discuss portfolio performance & priorities
 - Listen & take action to improve
 - Resistance to Change Management (Scope)

Fewer/Deeper Relationships – How?

- Connect Bridge to Engine Room on Project
 - Right Project Leadership is critical blocking/bad behaviors won't survive
 - Be very clear on roles & expectations
 - Owner accountable for setting vision & project governance
 - Contractor accountable for delivery of the agreed milestones

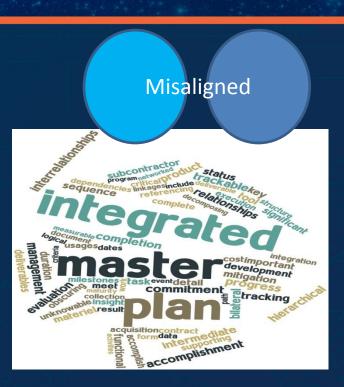
Fewer/Deeper Relationships – How?

- Connect Bridge to Engine Room on Project
 - Kick-off Alignment Workshop set tone
 - Project Sponsors meetings
 - War Rooms measure the right things
 - Build Culture escalate areas of misalignment to management for resolution

- "Don't make perfect the enemy of good"
 - Voltaire: French Philosopher (1694-1778)

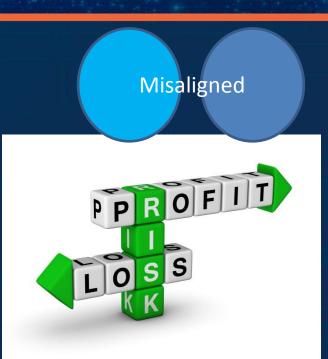
Schedule and Schedule Slip Risk

- Work Completion Date
- Visual Work Durations
 - MS Project*
 - Primavera*
- Poor to No Risk Apportionment
- Contract Type: Reimbursable Owner Risk; Lump Sum – Contractor Risk



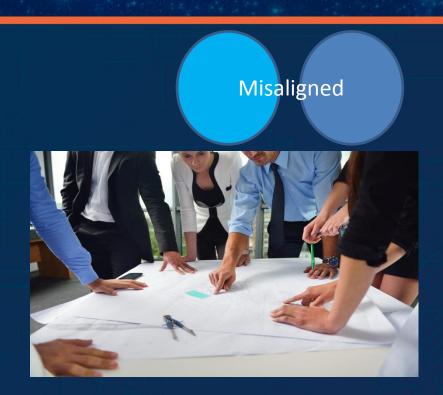
Cost and Cost Growth Risk:

- Contract Cost Variable
- Poor to No Risk Apportionment
- ■Owner Profit Margin 8 to 30%
- Contractor Profit Margin 6 to 25%
- Contract Type: Reimbursable Owner Risk; Lump Sum Contractor Risk



Change Management:

- Missing Change Process
- Often Critical to Profitability
- Owner wants No Change
- Contractor wants No Change



Change Board of Owner and Contractor



engineering and construction contracting association