



US Army Corps
of Engineers
Alaska District



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Cost Engineer's Role on a PDT – Cradle to Cradle

Chief Engineering,
Alaska District

Agenda



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- **Why Project Delivery Teams**
- **Whose Estimate Is This Anyway?**
- **Planning/Programming**
- **Charrette**
- **Design**
- **Procurement**
- **Construction**
- **Metrics**

Why project delivery teams?

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- Faster, better, cheaper
- Stovepipes slow and costly
- Budget vs Schedule vs Quality
- Need decisions made at levels closest to work
- Team definition of project success (PMP)
- Potential for synergy

Whose Estimate Is This?

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- Where did this estimate come from?
- Who prepared it?
- Who reviewed it?
- Are you sure this estimate is for “this project”?
- Maybe they left off some zeros...
- Who is the Project Delivery Team?

Planning/Programming **AK**



- Stage is set.
- Hasn't been done until it's been done...
- USACE role...what we make it.
- Control of our own destiny.
- If it hasn't been done, we can complain all the way to proposal/bid opening or...
- At first directive PM should request cost review.

Charrette

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- Where is that crystal ball?
- Come to the charrette prepared...
- Cost Engineers with enough experience to predict the future...
- Quick on your feet, adaptable & responsive
- Reserve the right to adjust final numbers
- Last chance to revisit stage that has been set



Someone has to keep the team focused on the objective

- Review of estimate by design team as part of project QC
- Participate as full team member
- Find ways to say yes
- Estimate supports the plans & specs...



- Source selection boards
 - Technical team
 - Cost team
- When is a Government estimate not a Government estimate?
- Lessons learned



Construction



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- Change costs \$1 in planning, \$10 during design or \$100 during construction
- Modification estimates are highest priority
- Lifecycle cost estimators possible???
- M-CACES as a lifecycle tool
- Cost Engineers/Estimators assigned to the field



- Quality objectives...
- What should Cost Engineers Measure?
 - % away from low bidder?
 - % away from avg of 3 low bidders?
 - Cost history of project?
 - # of Standard Deviations GE is from bid avg?
- Interested in your thoughts?



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Questions/Comments