OBO Industry Advisory Panel

Value Engineering Ideas Gregory S. Knoop, AIA, LEED-AP, SAVE

- Use VE concepts to develop project concepts
 - Work with the project stakeholders in a one- to two-week value-based design charrette
 - This is not a VE workshop, but lays the foundations of real value assessment from the start of the design
 - Goals established in this effort give clear direction to the design team

Perform a value workshop to assess the way the SED is used. The SED is a tremendous tool for a team that is given creative leeway to strive for value-based quality design

- Templates vs. standards: Which one is it?
- Kit of parts vs. cookie cutter design: What should an embassy representing such a diverse nation try to be? Equal but different?

Analyze life cycle costs since energy usage/costs and fiscal operational needs are always critical to the owner

- Measurements
- How OBO does business
- O&M data
- Post habits, management and procedures

Incorporate risk analysis into the VE process at the beginning of the Creative Phase

- Brainstorming risk mitigation measures, saves costs
 - Insurance
 - Political
 - Security
 - Cost
 - Schedule
- Risk analysis enables the VE team to identify, prioritize, mitigate, or eliminate project risk

- Involve an advisory group of users/Post representatives in the process of establishing goals
- Relationship building between Posts and OBO to help make project execution insure value.
- Who is OBO's customer?
 - Embassy
 - Main State
 - We the People
 - Prioritization of service insures managed expectations

- Conduct multidisciplinary, independent constructability reviews
- Involve contractors on VE teams to enlighten the team on constructibility issues
 - Craft
 - Materials logistics
 - Schedules and sequences
 - Coordinated work

Use VE concepts to develop RFPs for Design/Build contracts

- How a project is presented to the marketplace can have a profound effect on the outcome of the building process:
 - Number of bidders
 - Cost
 - Schedule
 - Attitude
 - Change order mitigation

- Use a Value Management team to evaluate government management procedures
 - Funding
 - Procurement
 - IT
 - Comment process
 - Reviews
 - Use of AE
 - Use of contractors
 - Internal Government communication

Use a VE team to evaluate RFPs and to evaluate resulting bids

 If OBO were to experiment with a best value, 2 phase bidding process with fixed costs and allow the bidders to bid quality not cost, then the VE team could be used to assess the bids

Speak with NAVFAC and COE for examples

Use the VE team to evaluate best construction procurement method for specific projects depending on new construction and renovations

- Design Build
- Design Bid Build
- Construction Manager
- Negotiated Bid
- Lease buy back

Project programming and prioritization

- To establish and quantify value, the government must establish priorities and measurements
- Program is not just the square foot numbers, it is the guiding principle and it is a living document

VE team evaluates the best way to successfully incorporate LEED principles

- AE consultants new generation and old school
- General Contractor
- Librarian from OBO or GSA
- Refer to LEED checklist within the Creative Phase of the VE Job Plan to brainstorm ways to incorporate sustainable design

Focus different VE teams on specific tasks

- Technical review
- Process
- Programming
- Design excellence
- Contracting
- Evaluation of multiple projects for lessons learned

VE team needs to evaluate the best way to successfully use BIM 3D/4D tools

- Autocad Person
- Microstation Person
- AE consultants new generation and old school
- General Contractor
- Librarian from OBO or GSA
- Make sure the tool serves the user not the user serving the tool

Have OBO do one small SED project, design and build from in-house:

- Demonstration of proper use of standards
- Demonstration of on-time delivery

The VE team can help evaluate the process

Use <u>VE team</u> to evaluate business management practices involved in creating an embassy building

- How does OBO Inc. compare to the market place?
- How does OBO motivate the market place to make a Partnership for success.