Value Management Office

AGC Construction Conference
Value Management Team

Alyson Tamer, PE, CPM

Clare Fullerton, PE

Roe Brybag, PE

Haadi Sadaghiani
Value Management Office

Value Engineering Program

Constructability Review Program

Value Engineering Proposal Program

Risk Assessment Program

CLEAR Program
CLEAR

Communicate Lessons, Exchange Advice, Record.
What is CLEAR?

- Program to support internal communication, knowledge sharing, creativity, and innovation.
WHY was CLEAR developed?

- Feedback loops created between regions and units.
- Innovations shared and vetted.
- Institutional knowledge stored.
- Ideas on any topic related to NCDOT.
- Approved submissions searched and shared.
- Enhanced communication and knowledge share.
CLEAR is found on a SharePoint Site

- Connect Site
- NCDOT Employees
- Mobile friendly
- Data Analytics
NCDOT personnel with NCDOT email can submit any Lesson Learned, Best Management Practice, or Request for a Solution. This submission goes through the Value Management Office and is reviewed.

The submission is then sent to the experts to review and provide their expertise and guidance.

Accepted submissions are published in the accepted lists that can be keyword searched, reviewed, filtered, and alerts can be set up for items.
CLEAR helps bring the feedback from construction and maintenance back to planning or design.
Did you overcome a challenge in work, have a suggestion to solve an obstacle, or have a best practice to share?

Please fill out the form so we can...

... share your lessons learned, advice or best practice.

... make improvements based on your lesson learned, shared advice and best practices.

Take a form to fill out later and email it to CLEAR@ncdot.gov

After acceptance, this will be included in the CLEAR database and you will be informed of the workflow.
Have you been involved in a Constructability Review?
Constructability Review Program

Benefits

• Work out potential field issues while the project is still being designed
• Provide a better understanding between design and construction
• Provide contractor input on design issues (coordinate with the AGC)
• Potential cost savings, risk reduction and/or time reduction
Research

• **Ongoing project:** Review and enhancement of Constructability Review process and program.
  
  – Please participate in interviews if you are contacted by the research team out of ITRE.

• **Upcoming project:** Establish guidance on Constructability of DMUIIs and Use of 4D model techniques (adding time/schedule to 3D geometry)
  
  – Interested in participating on the committee or being a friend of the committee? Contact Clare Fullerton, PE – cefullerton@ncdot.gov
Risk Assessment Program

Benefits

- Identify risks and develop strategies to address them
- Provide clarity to reduce risks or consequences of risks
- Ideally better estimates
- Support project delivery by reviewing critical projects

Risks may be unavoidable, so it’s important to have a plan to address them—making them a calculated risk.
• **Ongoing project:** Review and enhancement of Risk Assessment process and program.

  – Please participate in interviews if you are contacted by the research team out of ITRE.
Have you been involved in the submission of a Value Engineer Proposal?
Value Engineering Proposal

A Value Engineering Proposal (VEP) brings an innovative idea and savings to the Department from a Contractor.

- Contractor Idea
- Savings split 50/50 between NCDOT and Contractor
- Minimum $10,000 savings threshold
- Contractor covers cost associated with proposal submission
VEP Process

1. Contractor Submits Preliminary Proposal
2. Preliminary Proposal Reviewed
3. Contractor Submits Final Proposal
4. Final Proposal Reviewed
Contractor Submits Preliminary Proposal

Proposal should include:

• Description of proposed change, including benefits
• Estimated cost savings with breakdown
• Sketch, mark-ups on existing plan sheets

Benefit is to see if idea has merit before developing fully.
Preliminary Proposal Reviewed

- Reviewed by Resident Engineer, Value Management Office, and Technical Units
- Review the validity of the VEP
- If accepted – Contractor prepares Final Proposal
Contractor Submits Final Proposal

Final Proposal must include:

- Design Calculations
- Contract Plan Sheet Modifications
- Contract Document Changes
- Cost Savings Estimate based on Contract line items
Final Proposal Reviewed

- Reviewed by the Division Resident Engineer, Value Management Office, Technical Unit
- Construction Unit signs off on approval
- Supplemental Agreement executed, includes the portion of the cost savings owed to the Contractor
NCDOT Connect Site - Select Projects ➔ Value Management

Value Management Office
The Value Management Office (VMO) has five programs that are focused on enhancing project delivery at every phase of a project’s life. The programs work to bring innovation to NCDOT projects and engage the Department to share ideas and knowledge.
CLEAR Program
The CLEAR Program collects lessons learned, innovative ideas, and best management processes to be shared throughout the Department.
Read More

Constructability Review Program
The Constructability Review Program reviews projects during development, identify, examine, and resolve constructability challenges through a partnership with the AOC.
Read More

Risk Assessment Program
The Risk Assessment Program applies a risk assessment process to projects and programs to identify and mitigate potential risks.
Read More

Value Engineering Program
The Value Engineering Program applies FHWA’s value analysis through Value Engineering studies prior to the project letting.
Read More

Value Engineering Proposals Program
The Value Engineering Proposal Program supports Contractor time and money saving ideas through review of proposals submitted by Contractors during construction based on the Specification.
Read More
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<th>Program</th>
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<td>Communicate Lessons, Exchange Advice, Record Program (CLEAR)</td>
<td>Clare Fullerton, PE</td>
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<td>Constructability Review Program (CRP)</td>
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