DESIGN-BUILD PERFORMANCE EVALUATIONS

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A new tool to evaluate quality on design-build projects

- Standard CPE templates for consultants and contractors did not fit the DB model
- Began a pilot program in June 2017 on all active DB projects
- Evaluations conducted by VDOT PM’s in July 2017, October 2017, and January 2018
- Categories scored from 1 (Unsatisfactory) to 5 (Excellent)
- Provided a necessary feedback loop so quality related issues can be discussed openly
5 major components being evaluated

- Project Management (Design-Build) – 25%
- Design (Lead Designer) – 20%
- Construction (Lead Contractor) – 25%
- Construction Quality Control (Lead Contractor/QC Firm) – 10%
- Quality Assurance (Independent QA Firm) – 20%
Project Management (Design-Builder)

- Schedule/ Scope Validation – 30%
- Communication & Coordination – 20%
- Right-of-Way Administration – 20%
- Utility Relocation/Coordination – 20%
- Project Close-out – 10%
Design (Lead Designer)

- Design QA/QC – 20%
- Design Management – 60%
- Design-Construction Coordination – 20%
Construction (Lead Contractor)

• Safety – 20%

• Environmental Compliance – 20%

• General Construction – 45%

• Responsiveness to Correct Deficiencies – 15%
Construction QC (Lead Contractor/QC Firm)

- Materials Testing – 50%
- Inspection – 50%
Quality Assurance (Independent QA Firm)

- Construction QA/QC Plan – 10%
- Materials Testing – 20%
- Inspection – 25%
- Nonconformance – 15%
- Preparatory Meetings/Witness and Hold Points – 10%
- Certifications for Contract Compliance – 20%
## Pilot Program Results

<table>
<thead>
<tr>
<th></th>
<th>Project Management</th>
<th>Design</th>
<th>Construction</th>
<th>QC</th>
<th>QA</th>
<th>Overall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. Score</td>
<td>2.30</td>
<td>2.20</td>
<td>1.60</td>
<td>1.50</td>
<td>1.50</td>
<td>2.00</td>
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<tr>
<td>Max. Score</td>
<td>4.70</td>
<td>4.60</td>
<td>4.80</td>
<td>4.50</td>
<td>4.60</td>
<td>4.50</td>
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<tr>
<td>July 2017 Avg.</td>
<td>3.17</td>
<td>3.19</td>
<td>3.03</td>
<td>2.75</td>
<td>2.90</td>
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<td>Oct. 2017 Avg.</td>
<td>3.33</td>
<td>3.22</td>
<td>3.22</td>
<td>2.72</td>
<td>2.90</td>
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<td>Jan. 2018 Avg.</td>
<td>3.25</td>
<td>3.26</td>
<td>3.08</td>
<td>2.77</td>
<td>2.94</td>
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<tr>
<td>Overall Average</td>
<td>3.25</td>
<td>3.22</td>
<td>3.12</td>
<td>2.74</td>
<td>2.91</td>
<td>3.09</td>
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</tbody>
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Next Steps

- Update DBPE form based on internal and external comments
- Formalize the new program beginning July 1, 2018
- Archive pilot program data
- Collect new data
- Coordinate with Alternative Project Delivery Division and VTCA Design-Build Task Force to determine the best way to use the data in the selection process for new DB projects

“The best indicator of future performance is past performance”