**Building Envelope Commissioning (BECx) Matrix**

*July 1, 2013*

The Facilities Services Facility Standards (FS)2 is a living document which is subject to change. Please refer to the latest version of the document in accordance with Exhibit C of the contract agreements.

<table>
<thead>
<tr>
<th>BECx Team</th>
<th>Schedule</th>
<th>Reporting</th>
<th>Scope</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enclosure commissioning team may be a qualified member of design, contracting or owner team.</td>
<td>Enclosure commission to begin at concept stage</td>
<td>Develop a BECx Plan</td>
<td>Review includes water, air, structural, thermal, condensation, constructability</td>
</tr>
<tr>
<td>Enclosure commissioning team may be a disinterested member of design, contracting or owner team. (for projects up to 20,000 sf. ASTM of fundamental)</td>
<td></td>
<td>Maintain a issues log</td>
<td>Review includes above plus maintainability, acoustical, and additional requirements listed in the OPR / BOD</td>
</tr>
<tr>
<td>Qualified Enclosure Commissioning team may not be a part of design, contracting or owner teams.</td>
<td>Enclosure commissioning to begin no later than commencement of the DD documents</td>
<td>Provide reports to the owner</td>
<td>Vertical enclosure system.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Roof(s) As requested</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Plaza(s)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Below Grade</td>
<td></td>
</tr>
</tbody>
</table>

**Pre-Construction**

- Active Participation in the development of the Owners Performance Requirements (OPR)
- Review and comment on Owners Performance Requirements
- Active Participation in the development of the Basis of Design
- Review and comment on Owners Basis of Design (BOD)
- Review of SD level drawings and specifications
- Review of DD level drawings and specifications
- Review of 90% CD level drawings and specifications

**Design Documentation**

- Review of subcontractor submittals
- Witness lab/site testing if performed

**Construction**

- Attend enclosure related site meetings
- Witness site functional testing
- Review of mock ups
- Perform periodic site observation
- Provide updated non-conformance log

**Post Construction**

- Provide punch list
- Review as built documents
- Attend systems training and operations meetings
- Visit site to review performance 10 months post construction.

This listing is a synopsis and does not contain all the information on the detailed duties of the commissioning agent during the delivery of service. An example of this is in the ASTM commissioning where the role of the agent in certain duties would include review of documents and testing and publishing a report to the owner. In the enhanced process the commissioning agent will perform the role with direct and substantive participation in addition to issuance of a report.

This listing is intended to serve as a general guide and is not to be used in the final determination of the nature of the services to be provided. Please review the referenced documents in making the determination of services that are included.

The NIBS guideline for enclosure commissioning is a guideline and not a standard. The depth or scope of services may therefore be modified. The ASTM document is a standards with strict adherence to the scope provided being a requirement.