Attn: Carolyn Grant

Re: 30617 - Havana Fly Ash Sample Monthly Composite - November 2013

<table>
<thead>
<tr>
<th>ASTM C-618</th>
<th>Class &quot;C&quot;</th>
<th>Actual</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fineness (+325 Mesh)</strong></td>
<td>34% Max</td>
<td>11.00%</td>
</tr>
<tr>
<td><strong>Moisture Content</strong></td>
<td>3% Max</td>
<td>0.10%</td>
</tr>
<tr>
<td><strong>Density g/cm³ C188</strong></td>
<td>****</td>
<td>2.66</td>
</tr>
<tr>
<td><strong>Density Variation</strong></td>
<td>5% Max</td>
<td>1.05%</td>
</tr>
<tr>
<td><strong>Loss on Ignition</strong></td>
<td>6% Max</td>
<td>0.41%</td>
</tr>
<tr>
<td><strong>Soundness</strong></td>
<td>0.8% Max</td>
<td>0.03%</td>
</tr>
<tr>
<td><strong>S.A.I., 7 Days</strong></td>
<td>75% Min</td>
<td>101.70%</td>
</tr>
<tr>
<td><strong>S.A.I., 28 Days</strong></td>
<td>75% Min</td>
<td>107.50%</td>
</tr>
<tr>
<td><strong>Water Req. % Control</strong></td>
<td>105% Max</td>
<td>94.20%</td>
</tr>
<tr>
<td><strong>Silica SiO₂</strong></td>
<td>****</td>
<td>34.29%</td>
</tr>
<tr>
<td><strong>Aluminum Oxide Al₂O₃</strong></td>
<td>****</td>
<td>23.52%</td>
</tr>
<tr>
<td><strong>Ferric Oxide Fe₂O₃</strong></td>
<td>****</td>
<td>5.58%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>50% Min</td>
<td>63.39%</td>
</tr>
<tr>
<td><strong>Sulfur Trioxide SO₃</strong></td>
<td>5% Max</td>
<td>1.61%</td>
</tr>
<tr>
<td><strong>Calcium Oxide CaO</strong></td>
<td>****</td>
<td>25.17%</td>
</tr>
<tr>
<td><strong>Magnesium Oxide MgO</strong></td>
<td>****</td>
<td>5.55%</td>
</tr>
<tr>
<td><strong>Sodium Oxide Na₂O</strong></td>
<td>****</td>
<td>1.96%</td>
</tr>
<tr>
<td><strong>Potassium Oxide K₂O</strong></td>
<td>****</td>
<td>0.50%</td>
</tr>
<tr>
<td><strong>Available Alkalies as Na₂O</strong></td>
<td>****</td>
<td>1.43%</td>
</tr>
</tbody>
</table>

We certify the above was tested in accordance with ASTM C-618 and AASHTO M295.

Analytical Testing Service Laboratories, Inc.

John K. Cupp, Manager