## O.Reg. 455/09 Toxic Substance Reduction Plan Summary
### Ford Motor Company of Canada - Essex Engine Plant

<table>
<thead>
<tr>
<th>Substance &amp; CAS No:</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbon Monoxide</td>
<td>630-08-0</td>
</tr>
<tr>
<td>Copper (and its compounds)</td>
<td>N/A</td>
</tr>
<tr>
<td>Manganese (and its compounds)</td>
<td>N/A</td>
</tr>
<tr>
<td>Nitrogen Oxides</td>
<td>11104-93-1</td>
</tr>
<tr>
<td>Particulate Matter ≤ 10 micron</td>
<td>N/A</td>
</tr>
<tr>
<td>Particulate Matter ≤ 2.5 micron</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Facility Identification and Site Address
- **Company Name:** Essex Manufacturing
- **Facility Name:** Essex Engine Plant
- **Physical Address:** 1 Quality Way, Windsor, Ontario N9A 6X3
- **Mailing Address:** same as physical address
- **Spatial Coordinates of Facility:** 340916 m E, 4684629 m N (Expressed as UTM within NAD)
- **Number of Employees:** 781
- **NPRI ID Number:** 3886
- **Ontario MOE ID Number:** -

### Parent Company Information
- **Parent Company Name:** Ford Motor Company of Canada Limited
- **Parent Company Address:** 100 The Canadian Road, Oakville, ON, L6J 5E4
- **Percent Ownership:** 100%
- **Parent Company Contact:** Blake Smith

### Primary North American Industrial Classification System Code (NAICS)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33</td>
<td>Manufacturing</td>
</tr>
<tr>
<td>3363</td>
<td>Motor Vehicle Parts Manufacturing</td>
</tr>
<tr>
<td>336312</td>
<td>Engines &amp; Parts, Automotive &amp; Truck, Manufacturing</td>
</tr>
</tbody>
</table>

### Facility Public Contact
- **Name:** Blake Smith
- **Title:** Director EEVS
- **Email:** bsmith29@ford.com
- **Telephone:** 905-845-2511 x.1209
- **Fax:** 905-845-5360

### Toxic Substance Reduction Planner Information

#### Planner Responsible for Making Recommendations
- **Name:** Shannon Belleau
- **Company:** Dillon Consulting Limited
- **License #:** TSRP0155
- **Email:** sbelleau@dillon.ca
- **Telephone:** 519-948-5000 x.3258
- **Fax:** 519-948-5054

#### Planner Responsible for Certification
- **Name:** Shannon Belleau
- **Company:** Dillon Consulting Limited
- **License #:** TSRP0155
- **Email:** sbelleau@dillon.ca
- **Telephone:** 519-948-5000 x.3258
- **Fax:** 519-948-5054

#### Parent Company Address
- **Company Name:** Ford Motor Company of Canada Limited
- **Number of Employees:** N/A
- **NPRI ID Number:** N/A
- **Ontario MOE ID Number:** N/A

#### Other Substances at the Facility for which a Plan has been developed:
- **Name:** Shannon Belleau
- **Company:** Dillon Consulting Limited
- **License #:** TSRP0155
- **Email:** sbelleau@dillon.ca
- **Telephone:** 519-948-5000 x.3258
- **Fax:** 519-948-5054

#### Mailing Address (if different)
- **Facility Name:** Essex Engine Plant
- **Address:** 1 Quality Way, Windsor, Ontario N9A 6X3

#### Spatial Coordinates of Facility
- **340916 m E, 4684629 m N (Expressed as UTM within NAD)**

#### Parent Company Contact
- **Name:** Blake Smith
- **Title:** Director EEVS
- **Email:** bsmith29@ford.com
- **Telephone:** 905-845-2511 x.1209
- **Fax:** 905-845-5360

#### 3-digit NAICS Code
- **Code:** 33
- **Description:** Manufacturing

#### 4-digit NAICS Code
- **Code:** 3363
- **Description:** Motor Vehicle Parts Manufacturing

#### 5-digit NAICS Code
- **Code:** 336312
- **Description:** Engines & Parts, Automotive & Truck, Manufacturing
**O. Reg. 455/09 Toxic Substance Reduction Plan Summary**

**Ford Motor Company of Canada - Essex Engine Plant**

**Plan Summary Statement**

This plan summary accurately reflects the content of the toxic substance reduction plan for Carbon Monoxide, prepared by Essex Engine Plant, dated December 18, 2013.

**Statement of Intent**

Ford Motor Company of Canada intends to reduce the creation of Carbon Monoxide at the Essex Engine Plant located in Windsor, Ontario by implementing selected reduction options.

**Objective**

Essex Engine Plant will reduce the creation of Carbon Monoxide by implementing equipment modifications and improved operating procedures.

**Description of Substance and Use/Creation**

For a description of how, when, where and why Carbon Monoxide is created, including quantifications for accounting and process flow diagrams, see the "2012 Toxic Substance Accounting for TRA & O. Reg. 455/09" Report, prepared by Dillon Consulting Limited and located at the Environmental Engineer's desk.

<table>
<thead>
<tr>
<th>Option Category</th>
<th>Option Description</th>
<th>Estimated Reductions (tonnelyr and %)</th>
<th>Timeline to Achieve Reductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3. Equipment or process modification</td>
<td>Continue to investigate reducing the temperature set points for natural gas equipment.</td>
<td>Use: N/A, Creation: &lt;0.05 tonnelyr, Release to Air: &lt;0.05 tonnelyr</td>
<td>July 2015</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Release to Water: N/A, Release to Land: N/A, On-Site Disposal: N/A, Off-Site Disposal: N/A, Off-Site Recycle: N/A, Contained In Product: N/A</td>
<td></td>
</tr>
<tr>
<td>7. Training or improved operating practices</td>
<td>Continue to institute operating practices to improve natural gas heating equipment run-time and improve energy conservation communication to employees: 1) By assessing external temperatures and adjusting run-time accordingly, 2) By improving weekend &quot;turn down&quot; by identifying further areas that can be turned down or shut-off during weekend hours.</td>
<td>Use: N/A, Creation: &lt;0.05 tonnelyr, Release to Air: &lt;0.05 tonnelyr</td>
<td>December 2014</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Release to Water: N/A, Release to Land: N/A, On-Site Disposal: N/A, Off-Site Disposal: N/A, Off-Site Recycle: N/A, Contained In Product: N/A</td>
<td></td>
</tr>
</tbody>
</table>

**Certifications (s. 19)**

**Highest Ranking Employee**

As of December 18, 2013, I, Shaun Whitehead, certify that I have read the toxic substance reduction plan for the toxic substance referred to below and am familiar with its contents, and to my knowledge the plan is factually accurate and complies with the Toxics Reduction Act, 2009 and Ontario Regulation 455/09 (General) made under that Act.

**Carbon Monoxide**

HRE: [Signature] Date: 12-18-13

**Toxic Substance Reduction Planner**

As of December 18, 2013, I, Shannon Belleau, certify that I am familiar with the processes at Essex Engine Plant that use or create the toxic substance referred to below, that I agree with the estimates referred to in subparagraphs 7 iii, iv, and v of subsection 4(1) of the Toxics Reduction Act, 2009 that are set out in the plan dated December 18, 2013 and that the plan complies with that Act and Ontario Regulation 455/09 (General) made under that Act.

**Carbon Monoxide**

TSRP: [Signature] Date: Dec 18/2013