<table>
<thead>
<tr>
<th>Plume visibility</th>
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<tbody>
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<td>Occurrence and appearance of visible emissions from the proposed facility</td>
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Why are there visible emissions?

• Combustion (of anything) produces water vapour as a combustion product; this is emitted from the stack

• Under some weather conditions the water vapour will condense and be visible as a white or light grey plume:
  • Cold, clear conditions (occur mainly at night)
  • Days with high relative humidity (i.e., wet and damp weather)

• Visible plumes are not due to particles – particles are emitted at too low concentration to be visible
How often will the plume be visible?

Key points:

- Covanta chose dry abatement technology for the facility to minimise visible plumes.
- No plume for 48% of the year.
- No plume longer than 300m.
- Plume is:<br>&lt;150m from &gt;98.5% of the year.<br>&lt;50m for 80% of the year.
What will the plume look like?

Isle of Man
(for reference, the stack is 70m high)

Paris

Rugenburger Damm, Germany