

**APPENDIX 3****International Requirements for Air Emissions and Energy Management****Purpose**

To specify international requirements adopted by Sakhalin Energy in relation to Air Emissions and Energy Management.

Note: This document shall be revised to indicate updated standards where applicable, within 12 months following Project Completion.

**Who is this for?**

- *Asset Managers*<sup>1</sup>;
- *HSE Professionals*.

**Requirements**

Sakhalin Energy shall comply with the following conventions, standards and other requirements:

- Convention for the protection of the Ozone Layer (Vienna, 1985).
- Convention on Long-Range Transboundary Air Pollution (Geneva, 1979).
- United Nations Framework Convention on Climate Change (New York, 1992).
- Kyoto Protocol to the United Nations Framework Convention on Climate Change (December 1997).
- Montreal Protocol on Substances That Deplete the Ozone Layer (with amendments of 1992).
- Guidelines for air quality WHO (2000) Second reduction
- WHO Air quality guidelines for particulate matter, ozone, nitrogen dioxide and sulphur dioxide Global update 2005 Summary of risk assessment
- Royal Dutch Shell plc Continuous Venting and Flaring Manual.
- Royal Dutch Shell plc Greenhouse Gas and Energy Management Manual.
- Royal Dutch Shell plc Greenhouse Gas Forecast Specification.
- Royal Dutch Shell plc Ozone Depleting Substances Manual.
- Royal Dutch Shell plc Sulphur Oxides (SO<sub>x</sub>) and Nitrogen Oxides (NO<sub>x</sub>) Manual.
- Royal Dutch Shell plc Specification for Sulphur Oxides (SO<sub>x</sub>) and Nitrogen Oxides (NO<sub>x</sub>).
- Royal Dutch Shell plc Volatile Organic Compounds Manual.
- IFC Performance Standard Clause 3 Resource Efficiency and Pollution Prevention (IFC, January 1 2012), Clause 6 Resource Efficiency, Clauses 7-8 Greenhouse Gases, 10 Pollution Prevention, 13 Hazardous Materials Management
- International Finance Corporation Environmental, Health, and Safety (EHS) Guidelines general EHS guidelines: introduction April 2007
- International Finance Corporation Environment, Health and Safety Industry Sector Guidelines April 2007:
  - ✓ Oil and Gas Development (Offshore; Onshore)
  - ✓ Liquefied natural gas (LNG) facilities

<sup>1</sup> Italicized terms in this document are included in the Sakhalin Energy [HSE Glossary](#).



- ✓ Crude oil and petroleum product terminals
- ✓ Shipping
- ✓ Thermal power plants
- European Union Directive on The Limitation Of Certain Pollutants Into The Air For Large Combustion Plants (2001/80/EC 25.09.2009).
- European Union Framework Directive on Ambient Air Quality Assessment And Management (96/62/EC 11.06.2008).
- European Union Council Directive relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air (1999/30/EC 11.06.2008)
- Directive of the European Parliament and of the Council relating to limit values for benzene and carbon monoxide in ambient air (2000/69/EC 11.06.2008)
- European Union Regulation On Substances That Deplete The Ozone Layer (2037/2000 07.08.2009).

The Air Emissions Standards Comparison<sup>2</sup> document provides a detailed review of the requirements of certain standards in relation to the specification of Sakhalin Energy Assets and activities, and identifies any approved exceptions/deviations/derogations.

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<sup>2</sup> Underlined items in this document refer to Sakhalin Energy Controlled Documents.