

Revision 4.0

GAS SPECIFICATIONS

APPENDIX C

to

STANDARD TERMS AND CONDITIONS

for

TRANSPORTATION

of

GAS

in the

OFFSHORE PIPELINES

to

the Danish West Coast

Date: 24 September 2018

1 GAS SPECIFICATIONS AT THE DELIVERY POINT(S)

Gas delivered by the Shipper at the Delivery Point(s) shall comply with the Gas Specifications stipulated in the table below in this Article.

Parameter	Unit	Requirement
Wobbe index ¹⁾	MJ/m ³	50.76 - 55.80
Relative density	-	0.555 - 0.700
CO ₂	mole %	max 2.5
O ₂	mole %	max 0.1 on a 24-hour basis
H ₂ S + COS	mg(S)/m ³	max 5
Mercaptan	mg(S)/m ³	max 6
Total sulphur	mg(S)/m ³	max 30
Water dew point	°C	max -8 at pressures 0-70 Bar absolute
Hydrate formation	°C	no formations above -8 at pressures 0-70 Bar absolute
Hydrocarbon dew point	°C	max -2 at pressures 0-70 Bar absolute
Dust and liquids	The Gas shall be technically free of gaseous, solid or liquid substances to the extent that this may involve a risk of blocking and malfunction or corrosion of ordinary gas installations and standard gas equipment. This does not apply to liquid formation that occasionally occurs in Gas in the form of very small droplets and that cannot be removed from it.	
Odourisation	The Gas shall be delivered unodorised.	
Other components and contaminants	The Gas shall not contain other components and/or contaminants to an extent which may imply that it cannot be transported, stored and/or marketed without further adjustment of the quality or treatment of the Gas.	
Temperature	°C	0 – 50
Pressure at the Delivery Point Tyra East	Bar gauge	Necessary pipeline pressure between 50 and 138
Pressure at the Delivery Point South Arne	Bar gauge	Necessary pipeline pressure between 80 and 138

¹⁾ Wobbe index is defined as Gross Calorific Value divided by the square root of the relative density.

If the operator of the Transmission System should change the requirements valid for the Redelivery Point (currently referred to in the Danish Network Code as ‘Quality and Delivery Specifications’), the Operator is entitled to amend (with the exception of Temperature and Pressure) the table in this Article correspondingly with effect from the same date as the effective date of the changed Quality and Delivery Specifications in the Danish Network Code.

2 GAS SPECIFICATIONS AT REDELIVERY POINT

Gas redelivered by the Operator to the Shipper at the Redelivery Point shall comply with the gas specifications required by the Transmission System operator at the Redelivery Point at any time (currently referred to in the Danish Network Code as ‘Quality and Delivery Specifications’).