<u>Calculated Propulsion Engine Low Load Multiplicative Adjustment Factors (LLAF Table)</u>

Column	Туре	Comment
Load	string	Load factor in percentage
NOx	double	Nitrous Oxide
НС	double	Hydrocarbon
СО	double	Carbon Monoxide
PM	double	Particulate Matter
SO2	double	Sulphur Dioxide
CO2	double	Carbon Dioxide
N2O	double	Nitrogen Oxide
CH4	double	Methane

Propulsion Engine Emission Factors

Column	Туре	Comment
fuel	string	Type of fuel used by vessel
fuel_category	int	Category of fuel
sulfur	string	Percentage of sulfur
engine_type	string	Type of engine
emission_tier	int	Emission tier
model_years	string	Model year
		Nitrous Oxide emission factors
nox	double	(g/kWh)
		Particulate Matter with diameter
		of 10 micrometers and smaller
pm10	double	emission factors (g/kWh)
		Particulate Matter with diameter
		of 2.5 micrometers and smaller
pm2_5	double	emission factors (g/kWh)
		Volatile organic compounds
voc	double	emission factors (g/kWh)
		Sulfur Oxide emission factors
sox	double	(g/kWh)
		Nitrogen Dioxide emission
n2_O	double	factors (g/kWh)
		Methane emission factors
ch4	double	(g/kWh)
		Brake-specific fuel consumption
bsfc	int	emission factors (g/kWh)

Auxiliary Engine Emission Factors

Column	Туре	Comment
fuel	string	Type of fuel used by vessel
fuel_category	int	Category of fuel
sulfur	string	Percentage of sulfur
engine_size	string	Type of engine
emission_tier	int	Emission tier
model_years	string	Model year
		Nitrous Oxide emission factors
nox	double	(g/kWh)
pm10	double	Particulate Matter with diameter of 10 micrometers and smaller emission factors (g/kWh)
pm2_5	double	Particulate Matter with diameter of 2.5 micrometers and smaller emission factors (g/kWh)
voc	double	Volatile organic compounds emission factors (g/kWh)
s_ox	double	Sulfur Oxide emission factors (g/kWh)
n2_o	double	Nitrogen Dioxide emission factors (g/kWh)
ch4	double	Methane emission factors (g/kWh)
bsfc	int	Brake-specific fuel consumption emission factors (g/kWh)

Boiler Engine Emission Factors

Column	Туре	Comment
fuel	string	Type of fuel used by vessel
fuel_category	int	Category of fuel
sulfur	string	Percentage of sulfur
		Nitrous Oxide emission factors
n_ox	string	(g/kWh)
pm10	double	Particulate Matter with diameter of 10 micrometers and smaller emission factors (g/kWh)
pm2_5	double	Particulate Matter with diameter of 2.5 micrometers and smaller emission factors (g/kWh)
voc	double	Volatile organic compounds emission factors (g/kWh)
sox	double	Sulfur Oxide emission factors (g/kWh)
n2_O	double	Nitrogen Dioxide emission factors (g/kWh)
ch4	double	Methane emission factors (g/kWh)
		Brake-specific fuel consumption
bsfc	int	emission factors (g/kWh)