

	Alaska Gasline Development Corporation Alaska Department of Environmental Conservation Information Request for AGDC Liquefaction Plant Permit No. AQ1539CPT01	Date: June 7, 2022
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## DATA REQUEST REFERENCE INFORMATION

Agency	Data Request Date	Request No.
ADEC	June 2, 2022 (via phone call)	RFI-692

## ADEC REQUEST:

On June 2, 2022, the Alaska Department of Environmental Conservation (ADEC) requested the Alaska Gasline Development Corporation (AGDC) provide an estimate of the potential to emit numbers when turbines were in start-up, shutdown or malfunction mode when the SCR unit is not up to temperature.

## AGDC RESPONSE:

AGDC has reviewed the supporting engineering documents for the original application emissions estimates and modelling, and concluded that the duration of a typical start-up/shut down event for compressor and power generation turbines would be less than 2 hrs. In that time frame, the NOx emissions would not be fully controlled by the turbine SCR devices. The PTE emissions rates during this timeframe would be at the rates in the table, consistent with the original application estimates and modelling since it did not include SCR NOx controls on the turbines. A total combined NOx limit for all turbine units of 284.28 lbs/hr is proposed for each 2-hour startup/shutdown event.

EU ID	Emissions Unit Description	NOx lbs/hr	ppmv @15% O2
1	Train 1a Simple Cycle Treated Gas Compressor Turbine	37.64	9
2	Train 1b Simple Cycle Treated Gas Compressor Turbine	37.64	9
3	Train 2a Simple Cycle Treated Gas Compressor Turbine	37.64	9
4	Train 2b Simple Cycle Treated Gas Compressor Turbine	37.64	9
5	Train 3a Simple Cycle Treated Gas Compressor Turbine	37.64	9
6	Train3b Simple Cycle Treated Gas Compressor Turbine	37.64	9
7	Power Generation Turbines	14.61	9
8	Power Generation Turbines	14.61	9
9	Power Generation Turbines	14.61	9
10	Power Generation Turbines	14.61	9
<b>Total Turbine Emissions</b>		<b>284.28</b>	