

AER Vent Gas Limits & Fugitive Emission Survey Requirements		
Emission Sources	Final AER Dir 060 Effective Date	Final AER Dir 060 Section 8 Requirements
All Venting Sources	Overall vent gas limit (Effective release date of finalized directive, with exemptions until 2023)	 15 e3m3/month or 9 e3 kg of methane/month Vent gas from pneumatic devices, compressor seals, and glycol dehydrators are excluded from the OVG limit until January 1, 2023.
Venting	Defined vent gas limit for existing sites	Subject to overall vent limit
	Vent gas limits for new and existing crude bitumen batteries (Effective January 1, 2022)	Crude bitumen fleet average of 3 e3m3 month
Pneumatics	Vent gas limits for existing pneumatic devices (Effective January 1, 2023)	Replace, retrofit or modify with low-vent alternative
	Vent gas limits for new pneumatic devices (Effective January 1, 2022)	 90%: Control vent gas 10%: May vent up to 0.17 m3/hr Must document
	Level Controllers	 Must measure actuation frequency. 0-15 mins = High Frequency; >15 Min = Low Frequency High Frequency: must use relay designed to limit dynamic response
Compressor Seals	Vent gas limits for existing centrifugal compressors (Effective January 1, 2023)	< 10.2 m3 / hour /compressor
	Vent gas limits for new centrifugal compressors (Effective January 1, 2022)	< 3.4 m3 / hour / compressor
	Vent gas limits for existing reciprocating compressors (Effective January 1, 2023)	Fleet average vent rate of <0.83 m ³ /hr/throw, with no compressor venting gas over 5 m ³ /hr/throw
	Vent gas limits for new reciprocating compressor seals (Effective January 1, 2022)	 Units with ≥4 throws, control vent gas Units with <4 throws, fleet average vent rate of <0.83 m³/hr/throw, with no compressor venting gas over 5 m³/hr/throw
Glycol Dehydrators	Vent gas limits for existing glycol dehydrators (Effective January 1, 2023)	Fleet average methane emissions rate of <136 kg of methane/day/operating dehydrator
	Vent gas limits for new glycol dehydrators (Effective January 1, 2022)	< 68 kg of methane/day
Fugitive Emissions	Facility or equipment type: Gas plants (<0.01 mol/kmol H ₂ S) Compressor stations (<0.01 mol/kmol H ₂ S) Controlled liquid hydrocarbon tanks & Controlled produced water storage tanks (Effective January 1, 2020)	Triannual fugitive emission <u>surveys</u>
	Facility or equipment type: Gas plants (≥0.01 mol/kmol H2S) Straddle and fractionation plants Compressor stations (≥0.01 mol/kmol H2S) Batteries and associated satellite facilities Custom treating facilities Terminals Injection/disposal facilities (Effective January 1, 2020)	Annual fugitive emission <u>surveys</u>
	Facility or equipment type: • Well sites (Effective January 1, 2020)	Annual fugitive emission screening