



JOB AID

EDIT/VALIDATION RULES RELATED TO METHANE EMISSIONS SUBMISSIONS IN PETRINEX

Updated: March 5, 2026

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METHANE EMISSIONS EDITS

Edits are the business rules that are applied to information submitted to Petrinex.

The jurisdiction is Alberta only.

Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Facility ID		Facility ID is required.	ERROR	Facility ID cannot be blank.	MSG002
Facility ID		The entered facility identifier must exist in Petrinex.	ERROR	Facility ID [value] must exist in Petrinex.	MSG003
Facility ID		Only AB facilities allowed.	ERROR	Invalid Facility ID [value], only AB facilities are allowed.	MER001
Facility ID		Only facility subtypes from Appendix A allowed.	ERROR	Facility subtype [value] is invalid.	MER002
Facility ID		The facility must have an 'active' status (T707ActiveInd=Y), at some point in the reporting year. Active Facility that has been suspended for the entire reporting year will not be considered active status.	ERROR	Facility ID [value] must be 'active' at some point in year [value].	MER003
Facility ID		For the current reporting year, the reporting BA must be the facility operator on 31st December of reporting year. If there is a change in operator and the operator on 31st December has no access to Petrinex, the Licensee should be the one who can make the submission.	ERROR	Reporting BA [value] must be the facility operator on 31 st December or Licensee for year [value].	MER004
Facility ID		For the prior reporting year, the reporting BA must be the facility operator on 31st December of reporting year. If there is a change in	ERROR	Reporting BA [value] must be the facility operator on 31 st December or Licensee for year [value] or the current operator with prior period access.	MER005

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
		operator and the operator on 31st December has no access to Petrinex, and the Licensee has no access as well, the current operator with prior period access in volumetrics should be able to make amendments to a submission.			
Year		Cannot be blank.	ERROR	Year cannot be blank.	MSG002
Year		Must be a valid year.	ERROR	Field Year has an invalid format, must be YYYY.	MSG023
Year		Must not be greater than current methane emissions reporting year.	ERROR	Year [value] is not valid year, must not be greater than current methane emissions reporting year [value].	MER007
Year		Must not be earlier than Methane Emissions Reporting project go-live year.	ERROR	Year [value] is not valid year, must not be earlier than Methane Emissions Reporting project go-live year [value].	MER008
Facility ID Year Reporting BA		Only one Reporting BA can make a submission for a Facility per reporting Year. This applies to data in WIP.	ERROR	Existing submission found for Facility ID [value] and Year [value]. Please contact the Reporting BA [value] for any changes required.	MER052
Facility ID Year Reporting BA		Information message for a successful submission to Petrinex for a Methane Emissions Reporting	INFORMATION	The data for Facility ID [value], and Year [value] has been successfully submitted to Petrinex with amendment number [value].	MER100

Emissions tabbed page Edits

Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Vent Gas Volume (m3)		Required field.	ERROR	[Field name] - Vent Gas Volume cannot be blank.	MSG002

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Vent Gas Volume (m3)		Numeric field must be greater than or equal to zero. Max 9 digits before the decimal and 3 digits after the decimal place.	ERROR	Field [field name] - Vent Gas Volume has an invalid format, must be max 9 digits before the decimal place and max 3 digits after. Must be greater than or equal to 0.	MSG023
Methane Mass (kg)		Required field.	ERROR	[Field name] - Methane mass cannot be blank.	MSG002
Methane Mass (kg)		Numeric field, must be greater than or equal to zero. Max 9 digits before the decimal and 3 digits after the decimal place.	ERROR	Field [field name] - Methane Mass has an invalid format, must be max 9 digits before the decimal place and max 3 digits after. Must be greater than or equal to 0.	MSG023
Vent Gas Volume Methane Mass		Vent Gas Volume cannot be zero if Methane Mass is greater than zero,	ERROR	Methane Mass entered of [value] corresponding Vent Gas Volume must be greater than 0.	MER053
Vent Gas Volume Methane Mass		Calculate the methane % from entered Vent Gas Volume and Methane Mass. Methane % cannot be greater than 100%. Methane % = (Methane Mass / (methane density * Vent Gas Volume)) * 100%	ERROR	Methane % [value] cannot be greater than 100% for Vent Gas Volume [value] and Methane Mass [value].	MER013
Defined Vent Gas Volume Pneumatic Devices - Instruments Vent Gas Volume Pneumatic Devices - Pumps Vent Gas Volume Compressor Seals Vent Gas Volume		The sum of Defined Vent Gas Volume, Pneumatic Devices - Instruments Vent Gas Volume, Pneumatic Devices - Pumps Vent Gas Volume, and Compressor Seals Vent Gas Volume cannot exceed the total of the vent gas volumes from Volumetrics for the facility for the reporting year.	ERROR	The sum of Defined Vent Gas Volume, Pneumatic Devices - Instruments Vent Gas Volume, Pneumatic Devices - Pumps Vent Gas Volume, and Compressor Seals Vent Gas Volume [value] m ³ ([value] 10 ³ m ³) cannot exceed the total of the vent gas volumes [value] m ³ ([value] 10 ³ m ³) (+0.6 e3m3) from Volumetrics for the facility ID [value] for the reporting year [value].	MER014



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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
		<p>This number will have a tolerance of +0.6 e3m3 per year due to conversion rounding.</p> <p>** From Volumetrics, need to sum up all the summary level with activity of VENT for the facility id and reporting year. Volumetrics is reported in 10³m³ (thousands of cubic metres)</p> <p>** If facility ID is a CS, from Volumetrics, need to sum up all the activity of VENT where the From/to is equal to the facility id for the reporting year</p>			

Compressor Seals - Inventory tabbed page Edits

Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Serial Number or Identifier		Required field, cannot be blank.	ERROR	Serial Number or Identifier cannot be blank.	MSG002
Serial Number or Identifier		Serial Number or Identifier max size of 30 characters.	ERROR	Field Serial Number or Identifier must not exceed 30 characters.	MSG006
Legal Land Description		Required field, cannot be blank.	ERROR	Legal Land Description cannot be blank.	MSG002
Legal Land Description		Legal Land Description, max size of 30 chars.	ERROR	Field Legal Land Description must not exceed 30 characters.	MSG006



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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Legal Land Description		Format is 99-99-99-999-99W9, made up of Location Exception, Legal Subdivision, Section, Township, Range, Meridian.	ERROR	Invalid Legal Land Description [value], must be in ##-##-###-##W# or ##-##-##-###-##W# format.	MER022
Location Exception		Valid values are 02-09 or blank	ERROR	Valid Values for Location Exception: 02-09 or blank.	MSG004
Legal Subdivision		Valid values are 01 - 16 or blank	ERROR	Valid Values for Legal Subdivision are [01-16] or blank.	MSG004
Section		Valid values are 01 - 36	ERROR	Valid Values for Section are [01-36].	MSG004
Township		Valid values are 01 - 126	ERROR	Valid Values for Township are [01 - 126].	MSG004
Range		Valid values are 01 - 30	ERROR	Valid Values for Range are [01 - 30].	MSG004
Meridian		Valid values are 4, 5, 6	ERROR	Valid Values for Meridian are [4, 5, 6].	MSG004
Installation Year		Required field, cannot be blank.	ERROR	Installation Year cannot be blank.	MSG002
Installation Year		Numeric field, format YYYY.	ERROR	Field Installation Year must be a numeric value greater than zero.	MSG009
Installation Year		Numeric field, between 1900 and reporting year.	ERROR	Installation Year [value] is invalid, must be between 1900 and [value].	MER024
Compressor Type		Required field, cannot be blank.	ERROR	Compressor Type cannot be blank.	MSG002
Compressor Type		Must be one of Reciprocating or Centrifugal.	ERROR	Compressor Type [value] is invalid.	MER025
Throw Count		If entered must be numeric and greater than zero.	ERROR	Throw Count [value] must be numeric and greater than zero.	MSG009
Seal Type		Required field, cannot be blank.	ERROR	Seal Type cannot be blank.	MSG002
Seal Type		Must be one of Dry, Wet, or Rod Packing.	ERROR	Seal Type [value] is invalid.	MER028
Controlled Vent Indicator		Required field, cannot be blank.	ERROR	Seal Type cannot be blank.	MSG002
Controlled Vent Indicator		Must be one of Yes, or No.	ERROR	Controlled Vent Indicator [value] is invalid.	MER029

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Vent Gas Volume (m3)		Required field.	ERROR	Vent Gas Volume cannot be blank.	MSG002
Vent Gas Volume (m3)		Numeric field must be greater than or equal to zero. Max 9 digits before the decimal and 3 digits after the decimal place.	ERROR	Field Vent Gas Volume has an invalid format, must be max 9 digits before the decimal place and max 3 digits after. Must be greater than or equal to 0.	MSG023
Pressurized Time (hours)		Required field.	ERROR	Pressurized Time cannot be blank.	MSG002
Pressurized Time (hours)		Numeric field must be greater than or equal to zero. Max 4 digits.	ERROR	Pressurized Time [value] is an invalid format, max 4 digits, no decimal place.	MER033
Pressurized Time (hours)		Pressurized Time cannot be greater than (24 * Number of days in the Year) <i>** Including leap day if applicable</i>	ERROR	Pressurized Time [value] cannot be greater than #####.	MER034
Compressor Type Seal Type Throw Count		If Compressor Type is Reciprocating, then Seal Type must be Rod Packing and Throw Count must be > zero.	ERROR	Reciprocating Compressor Type must have a Rod Packing Seal Type and Throw Count greater than zero.	MER035
Compressor Type Seal Type Throw Count		If Compressor Type is Centrifugal, then Seal Type must be Wet or Dry, Throw Count must be blank.	ERROR	Centrifugal Compressor Type must have a Wet or Dry Seal Type, and a blank Throw Count.	MER036
Total Vent Gas Volume (m3)		Total Vent Gas Volume (in Compressor Seals - Inventory tabbed page) cannot be greater than Compressor Seals Vent Gas Volume (in the Emissions tabbed page)	ERROR	Compressor Seals - Inventory Total Vent Gas Volume cannot be greater than Emission - Compressor Seals Vent Gas Volume.	MER037

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Serial Number or Identifier Legal Land Description		Serial Number or Identifier and Legal Land Description must not be duplicated for listed Compressor Seals - Inventory.	ERROR	Duplicate rows exist for Compressor Seals - Inventory - Serial Number or Identifier [value] and Legal Land Description [value].	MER048

Fugitive - Survey tabbed page Edits

Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Site/Well Identifier		Required field, cannot be blank.	ERROR	Site/Well Identifier cannot be blank.	MSG002
Site/Well Identifier		Site/Well Identifier, max size of 60 chars.	ERROR	Field Site/Well Identifier must not exceed 60 characters.	MSG006
Survey or Screening Date		Required field, cannot be blank.	ERROR	Survey or Screening Date cannot be blank.	MSG002
Survey or Screening Date		Must be YYYY-MM-DD format.	ERROR	Survey or Screening Date [{0}] is not a valid Survey or Screening Date.	MSG021
Survey or Screening Date		Must be within reporting year.	ERROR	Survey or Screening Date [value] must be within the reporting year [value].	MER042
Number of Identified Sources of Fugitive Emissions		If entered, must be numeric field, must be greater than or equal to zero.	ERROR	Number of Identified Sources of Fugitive Emissions [value] is an invalid format, must be numeric and greater than or equal to zero.	MER043
Number of Identified Sources of Fugitive Emissions		If no Number of Identified Sources of Fugitive Emissions entered and Survey or Screening Type value is not set to Alt-FEMP Site Screening (Mobile) (ALTFEMPMOBILE) and Alt-FEMP Site Screening	ERROR	Number of Identified Sources of Fugitive Emissions is required if Survey or Screening Type value is set to [{0}].	MER055

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
		(Stationary) (ALTFEMPSTATIONARY), Number of Identified Sources of Fugitive Emissions is required.			
Number of Identified Sources of Fugitive Emissions		If the Number of Identified Sources of Fugitive Emissions (Fugitive - Survey tabbed page) is greater than 0, then Emissions - Fugitive Vent Gas Volume cannot be zero (in the Emissions tabbed page).	ERROR	The Number of Identified Sources of Fugitive Emissions is greater than 0, Emissions - Fugitive Vent Gas Volume cannot be zero.	MER047
Survey or Screening Type		Required field, cannot be blank.	ERROR	Survey or Screening Type cannot be blank.	MSG002
Survey or Screening Type		Must be one of Fugitive Emissions Survey, Fugitive Emissions Screening, Alt-FEMP Site Screening (Mobile), or Alt-FEMP Site Screening (Stationary).	ERROR	Survey or Screening Type [value] is invalid.	MER044
Site-level Emissions Rate		If entered, Max 6 digits before the decimal and 2 digits after the decimal place. Must be greater than or equal to zero.	ERROR	Field Site-level Emission Rate (m3/d) has an invalid format, must be max 6 digits before the decimal place and max 2 digits after. Must be greater than or equal to 0.	MSG023
Site-level Emissions Rate		If no Site-level Emissions Rate entered and Survey or Screening Type value is set to Alt-FEMP Site Screening (Mobile) (ALTFEMPMOBILE) and Alt-FEMP Site Screening (Stationary) (ALTFEMPSTATIONARY), Site-level	WARNING	Site-level Emissions Rate may be required if Survey or Screening Type value is set to [{0}].	MER050



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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
		Emissions Rate (m3/d) may be entered.			
Site-level Emissions Rate		If entered and Survey or Screening Type value is not set to Alt-FEMP Site Screening (Mobile) (ALTFEMPMOBILE) and Alt-FEMP Site Screening (Stationary) (ALTFEMPSTATIONARY), Site-level Emissions Rate (m3/d) is not required.	ERROR	Site-level Emissions Rate is not required for Survey or Screening Type {{0}}. Site-level emissions rate is only required if Survey or Screening Type value is set to Alt-FEMP Site Screening (Mobile) or Alt-FEMP Site Screening (Stationary).	MER051
Site/Well Identifier Survey or Screening Date Survey or Screening Type		Site/Well Identifier, Survey or Screening Date and Survey or Screening Type must not be duplicated for listed Fugitive - Survey.	ERROR	Duplicate rows exist for Fugitive - Survey - Inventory - Site/Well Identifier [value], Survey or Screening Date [value] and Survey or Screening Type [value].	MER049

Contacts tabbed page edits

Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Name (Primary)		Primary name is a required field, cannot be blank.	ERROR	Name cannot be blank.	MSG002
Name		Name, max size of 50 chars.	ERROR	Name [value] cannot exceed 50 characters.	MER015



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Business Name		Validation Rule	Result Type	Message	Message Number
Title (Primary)		Primary title is a required field, cannot be blank.	ERROR	Title cannot be blank.	MSG002
Title		Title, max size of 50 chars.	ERROR	Title [value] cannot exceed 50 characters.	MER016
Email (Primary)		Primary email is a required field, cannot be blank.	ERROR	Email cannot be blank.	MSG002
Email		Must be a valid email address format. Field needs to include @ character; data type must be alphanumeric; field length less than or equal to 128 characters.	ERROR	Email [value] has an invalid format.	MGS023
Phone (Primary)		Primary phone is a required field, cannot be blank.	ERROR	Phone cannot be blank.	MSG002
Phone		Is a numerical field. Field value must be numeric with no symbols. Format: 0123456789.	ERROR	Phone [value] has an invalid format, must be numeric in the following format: 0123456789.	MSG023
Phone		Phone Number must be greater than or equal to 10 characters.	ERROR	Phone has to be greater than or equal to 10 characters.	MSG029
Phone		Phone Number must not exceed 14 characters.	ERROR	Phone must not exceed 14 characters.	MSG006
Name (Secondary)		If Secondary Name, Title, Email, or Phone is entered then all fields are required	ERROR	All Secondary Contact information is required, if any Secondary Contact fields are entered.	MER019

APPENDIX A – FACILITY SUB-TYPES

The following list are the only facility subtypes which can make a Methane Emissions Reporting Submission

Facility Subtype Code	Facility Subtype
311	Crude Oil Single-well Battery
321	Crude Oil Multiwell Group Battery
322	Crude Oil Multiwell Proration Battery
331	Crude Bitumen Single-well Battery
341	Crude Bitumen Multiwell Group Battery
342	Crude Bitumen Multiwell Proration Battery
343	Crude Bitumen/Heavy Oil Administrative Grouping
344	In-situ Oil Sands
345	Sulphur Reporting at Oil Sands
351	Gas Single Well Battery
361	Gas Multiwell Group Battery
362	Gas Multiwell Effluent Measurement Battery

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363	Gas Multiwell Proration SE Alberta Battery
364	Gas Multiwell Proration Outside SE Alberta Battery
365	Gas Multiwell Group Battery (Issued by AER only)
366	Gas Multiwell Proration SE AB Battery (Issued by AER only)
367	Gas Multiwell Proration Outside SE AB (Issued by AER only)
371	Gas Test Battery
381	Drilling and Completing
401	Gas Plant Sweet
402	Gas Plant Acid Gas Flaring < 1t/d Sulphur
403	Gas Plant Acid Gas Flaring > 1t/d Sulphur
404	Gas Plant Acid Gas Injection
405	Gas Plant Sulphur Recovery
406	Gas Plant Mainline Straddle
407	Gas Plant Fractionation
501	Enhanced Recovery Scheme
502	Concurrent Production/Cycling Scheme
503	Disposal
504	Acid Gas Disposal

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505	Underground Gas Storage
506	In-situ Oil Sands
507	Disposal (Approved as part of a Waste Plant)
508	Enhanced Recovery Scheme (Issued by AER only)
509	Disposal (Issued by AER only)
601	Compressor Station
611	Custom Treating Facility
612	Custom Treating Facility (Approved as part of a Waste Plant)
621	Gas Gathering System
622	GGs (Pipes only or Compressor lt 75kw. Issued by AER only)
671	Tank Farm / Oil Loading and Unloading Terminal
673	Third Party Tank Farm/Oil Loading and Unloading Terminal
701	Surface Waste Facility
702	Cavern Waste Facility
902	Water Source Battery