

EDIT/VALIDATION RULES RELATED TO SULPHUR SUBMISSION (S-30) REPORTING IN PETRINEX

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EDIT/VALIDATION RULES RELATED TO SULPHUR SUBMISSIONS (S-30) REPORTING IN PETRINEX

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SULPHUR SUBMISSIONS (S-30) 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] is required.	MSG007
Facility ID		The entered facility identifier must exist in Petrinex.	ERROR	Facility ID [value] must exist in Petrinex.	MSG003
Facility ID		Only AB GP facilities allowed.	ERROR	Invalid Facility ID [value], only AB GP facilities are allowed.	SBR011
Facility ID		Only facility subtypes from Appendix A allowed.	ERROR	Facility ID [Facility ID] has subtype [value] that does not require sulphur submissions. Valid facility subtypes are [list].	SBR012
Facility ID		The facility must have an 'active' status at some point in the month.	ERROR	Facility ID [value] must be 'active'.	MSG058
Production Month		Production Month is required.	ERROR	[Production Month] is required.	MSG007
Production Month		Must be a valid production month.	ERROR	Field [Production Month] has an invalid format, must be [YYYY-MM].	MSG023
Production Month		Must not be greater than current sulphur submission reporting month.	ERROR	Production Month [value] is not valid period, must not be greater than current sulphur submissions reporting month [value].	SBR015

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Header Edits					
Facility ID (current operator BA)		For the current reporting production month, the reporting BA must be the current facility operator. This applies to Edit screens only.	ERROR	Reporting BA [Facility ID] must be the current facility operator.	SBR014
Production Month		Edits to a sulphur submission are restricted to a rolling 24-month period prior to the selected production month of the latest amendment. This applies to Edit screens only.	ERROR	Edits allowed only within 24 months of the selected production month of the latest amendment.	SBR010
Facility ID Production Month		The AER Sulphur Reporting Required Flag must be Y for the facility and the production month must be between the Sulphur Reporting Required Start date and End Date. This applies to Edit screens only.	ERROR	Sulphur Submissions are only required for Facility [Facility ID] between [Start date] and [End date].	SBR025
Facility ID Production Month		Information message for a successful submission to Petrinex for a Sulphur Submissions	INFORMATION	The data for Facility ID [Facility ID], and Production Month [Production Month] has been successfully submitted to Petrinex with amendment number [Amendment Number].	SBR018

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Facility ID Production Month		Ensure that the total monthly raw gas inlet volume from the sulphur submission is less than the total Gas Receipt Volume in Volumetrics for the gas plant ($\pm 1.6 \times 10^3 \text{m}^3$ tolerance due to daily rounding).	WARNING	The total monthly raw gas inlet volume from the sulphur submission should be less than the total Gas Receipt Volume in Volumetrics for the gas plant, subject to a $\pm 1.6 \times 10^3 \text{m}^3$ rounding tolerance.	SBR019
Facility ID Production Month		Ensure that the total monthly gas flared volume from the sulphur submission is less than the total Flared Volume in Volumetrics for the gas plant ($\pm 1.6 \times 10^3 \text{m}^3$ tolerance due to daily rounding).	WARNING	The total monthly gas flared volume from the sulphur submission should be less than the total Flared Volume in Volumetrics for the gas plant, subject to a $\pm 1.6 \times 10^3 \text{m}^3$ rounding tolerance.	SBR020
Daily Detail Tab Edits					
Day		A day value is required.	ERROR	[Day] is required.	MSG007
Day		Must be a valid day for the given production year and month. For batch submissions, users cannot submit day values that do not make up a valid date. Petrinex stores a date not an integer, which includes the year and month.	ERROR	Invalid day [Day] value for the production month [Production Month].	SBR026

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Plant Feedstock (10 ³ m ³)		Required field. Must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Plant Feedstock]. Max [8] digits before the decimal and max [1] digits after the decimal place. Value must be equal to or greater than zero.	MSG064
Plant Feedstock % H ₂ S		Required field. Must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Plant Feedstock %]. Max [3] digits before the decimal and max [4] digits after the decimal place. Value must be equal to or greater than zero.	MSG064
Sulphur Production (t)		If provided, it must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Sulphur Production]. Max [9] digits before the decimal and max [2] digits after the decimal place. Value must be equal to or greater than zero if entered.	MSG065
Sulphur Stack Emission (t)		If provided, it must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Sulphur Stack Emission]. Max [9] digits before the decimal and max [2] digits after the decimal place. Value must be equal to or greater than zero if entered.	MSG065
Flared Gas (10 ³ m ³)		Required field. Must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Flared Gas]. Max [8] digits before the decimal and max [1] digits after	MSG064

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
				the decimal place. Value must be equal to or greater than zero.	
Flared Gas % H ₂ S		Required field. Must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Flared Gas %]. Max [3] digits before the decimal and max [4] digits after the decimal place. Value must be equal to or greater than zero.	MSG064
Injected/Other (10 ³ m ³)		If provided, it must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Injected/Other]. Max [8] digits before the decimal and max [1] digits after the decimal place. Value must be equal to or greater than zero if entered.	MSG065
Injected/Other % H ₂ S		If provided, it must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Injected/Other %]. Max [3] digits before the decimal and max [4] digits after the decimal place. Value must be equal to or greater than zero if entered.	MSG065
Comments		Comments, max size of 2,000 chars.	ERROR	Field [Comments] must not exceed [2,000] characters.	MSG006
Emission Monitor Down		If not an empty string, must be <u>0</u> or a <u>positive</u> number with the correct precision and scale.	ERROR	[field name] has invalid value [Emission Monitor Down]. Max [3] digits before the decimal and max [1] digits after the decimal	MSG065

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
				place. Value must be equal to or greater than zero if entered.	
Plant Feedstock (10 ³ m ³) Plant Feedstock % H ₂ S Sulphur Production (t) Sulphur Stack Emission (t) Flared Gas (10 ³ m ³) Flared Gas % H ₂ S Injected/Other (10 ³ m ³) Injected/Other % H ₂ S		If provided, the value must be a non-negative number with the correct precision and scale. Although similar to MSG064, this error message is generated by front-end validation.	ERROR	Field [field name] has an invalid format, must be max [maximum digits before] digits before the decimal place and max [maximum digits after] digits after. Must be greater than or equal to 0.	MSG023
Noncompliance Warning Messages					
Calculated Monthly Measurement Difference (%) Monthly Measurement Difference Requirement Percentage (%)		If the absolute value of the calculated Monthly Measurement Difference (%) for the same facility and production month exceeds the Monthly Measurement Difference Requirement Percentage (%) when the sulphur inlet rate is less than 1 t/d. (See Directive 17, Table 11.1)	WARNING	The calculated monthly measurement difference [Calculated Monthly Measurement Difference] for facility [Facility ID] during production month [Production Month] exceeds the threshold of [Monthly Measurement Difference Requirement Percentage] when the sulphur inlet rate is [less than 1 t/d].	SBR102
Monthly Sulphur Recovery Efficiency Sulphur Recovery		If the calculated Monthly Sulphur Recovery Efficiency (%) for the same facility and production month is below the	WARNING	The calculated Monthly Sulphur Recovery Efficiency [Monthly Sulphur Recovery Efficiency] for facility [Facility ID] during	SBR104

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Minimum Approved Sulphur Recovery Efficiency (%)		Minimum Approved Sulphur Recovery Efficiency (%), a warning is generated.		production month [Production Month] is below the Minimum Approved Sulphur Recovery Efficiency [Minimum Approved Sulphur Recovery Efficiency]. Compliance with the Minimum Approved Sulphur Recovery Efficiency is assessed on a calendar quarter basis.	
Sulphur Inlet Rate (t/d) Max Approved Sulphur Inlet Rate (t/d)		If the calculated Sulphur Inlet Rate (t/d) exceeds the Max Approved Sulphur Inlet Rate (t/d) for the same facility and production month.	WARNING	The calculated Maximum Monthly Sulphur Inlet Rate [Sulphur Inlet Rate] for facility [Facility ID] during production month [Production Month] exceeds the threshold of Max Approved Sulphur Inlet Rate [Max Approved Sulphur Inlet Rate value t/d].	SBR106
Plant Feedstock (10^3m^3) Maximum Approved Raw Gas Rate (10^3m^3)		If the highest recorded monthly value of Plant Feedstock (10^3m^3) exceeds the Maximum Approved Raw Gas Rate (10^3m^3) for the same facility and production month.	WARNING	The calculated monthly Plant Feedstock [Plant Feedstock] for facility [Facility ID] during production month [Production Month] exceeds the threshold of Maximum Approved Raw Gas [Maximum Approved Raw Gas Rate].	SBR108
Total Inlet Actual Volume		If the difference between the total inlet actual volume and	WARNING	The total inlet actual volume [Total Inlet Actual Volume] and the total	SBR112

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Total Gas Receipt Volume		the total gas receipt volume (Volumetrics activity REC, product GAS) for the same facility and production month exceeds the permitted tolerance of $\pm 1.6 \times 10^3 \text{m}^3$.		gas receipt volume [Total Gas Receipt Volume] (activity REC, product GAS) difference of [difference value] exceeds the $1.6 \times 10^3 \text{m}^3$ metering difference requirement.	
Total Flared Gas Outlet Volume Total Flare Gas Volume		If the difference between the total flared gas outlet volume and the total flare gas volume (Volumetrics activity FLARE, products GAS, ACGAS) for the same facility and production month exceeds the permitted tolerance of $\pm 1.6 \times 10^3 \text{m}^3$.	WARNING	The total flared gas outlet volume [volume] and the total flare gas volumes [Total Flared Gas Outlet Volume] (activity FLARE, products GAS, ACGAS) difference [difference value] exceeds the $1.6 \times 10^3 \text{m}^3$ metering difference requirement.	SBR114
Facility ID Production Month		Inform the user that submission will activate the facility operational status.	INFORMATION	Be advised this submission will set the operational status of Facility ID [Facility ID] to ACTIVE.	VMS343
Facility ID Production Month		Information message when the Facility Operational Status interdependency has updated the facility status to Active.	INFORMATION	The submission to [Facility ID] for [Production Month] has changed the facility operational status to ACTIVE.	VMS344
Contact Details Tab Edits					
Contact Name		Contact name is a required field, cannot be blank.	ERROR	The [Contact Name] is required but was not entered.	MSG007

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
Contact Name		Contact Name, max size of 50 chars.	ERROR	Field [Contact Name] must not exceed [50] characters.	MSG006
Phone Number		Phone Number is a required field, cannot be blank.	ERROR	The [Phone Number] is required but was not entered.	MSG022
Phone Number		Phone Number, max size of 14 chars.	ERROR	Field [Phone Number] must not exceed [14] characters.	MSG006
Phone Number		Phone number must be in the following format: “(nnn) nnn-nnnn”	ERROR	Field Phone Number [Phone Number] has an invalid format, must be [(nnn) nnn-nnnn].	MSG023
Email		Email is a required field, cannot be blank.	ERROR	The [Email] is required but was not entered.	MSG022
Email		The email address must not exceed 128 characters in total length. The email address must contain exactly one @ symbol. The local part (before @): Must contain only letters, digits, and permitted special characters: ! # \$ % & ' * + - / = ? ^ _ ` { } ~	ERROR	[Email] has an invalid format, must be [a valid email address]	MGS023

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Business Name	Jurisdiction	Validation Rule	Result Type	Message	Message Number
		Must not begin or end with a period (.). Must not contain consecutive periods. The domain part (after @): Must consist of one or more labels separated by periods. Each label must begin and end with an alphanumeric character. Hyphens (-) may appear within labels but not at the start or end. The top-level domain (TLD): Must contain at least two alphabetic characters. Whitespace characters are not permitted anywhere in the email address. The email address must contain only ASCII characters.			

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APPENDIX A – FACILITY SUB-TYPES

The following list are the only facility subtypes which can make a Sulphur S-30 Submission

Facility Subtype Code	Facility Subtype
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