

Industry Tip

H₂S Incident Reporting Enhancement

Date	Module/Application/Functionality	Notes
January 18, 2019	Incidents	H2S Reporting Enhancement

BACKGROUND

H₂S is a dangerous substance that is required to be reported to the Ministry of Energy and Resources if it is involved in an incident release. H₂S has the potential for high risk adverse effects to human health, domestic animals, wildlife and the environment therefore the ability for industry to report and document this substance, as well as, the government to transparently share these incidents with the public through the publication of the weekly incident report is of paramount importance to ER.

The Ministry has completed the following IRIS enhancements to the Incident Reporting module to better capture and report H₂S concentrations present in substances released during an incident or spill.

DETERMINING INCIDENT TYPE

The user will now have to choose an incident type when entering the General Incident Info for the Initial Incident report.

Please see Appendix 1 of the Incident Reporting Directive [PNG014](#) for assistance in determining the incident type.

Tenure

Applications

Infrastructure

Reports

Security Reports

Support

Quick Search

Initial Incident

General Info

Contact Info

Surface Info

Review and Submit Info

Initial Incident Information

Reporting Business Associate

Ministry of Energy and Resources Field Office *

Date Occurred

Date Found *

Incident Type *

Blow-Out – General Field Operations

Break – Pipeline or Flowline

Break, Leak or Malfunction of Equipment – Well or Facility

Break, Leak, Malfunction of Trucking Equipment or Worker Error

Contact Damage – Pipeline or Flowline

Fire – General Field Operations

Kick – General Field Operations

Leak, Malfunction of Equipment or Worker Error – Pipeline or Flowline

Release or Spill – General Field Operations

Release or Spill – Well Drilling or Fracturing Operation

Release, Spill or Frac-Out – Horizontal Directional Drilling Pipeline/Flowline Installation

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Yes No

Link to Directive PNG014

DECLARATION QUESTIONS

The user is now directed to answer two new mandatory declaration questions regarding H₂S in the General Info of the Initial Incident report.

The user must now declare if the incident resulted in a release of a reportable concentration of H₂S. Please see Appendix 1 of the Incident Reporting Directive [PNG014](#) for assistance in determining the reportable concentrations of H₂S.

Did this incident result in the release of a reportable concentration of H₂S? *

Yes No

The user must now declare if there has been a public complaint regarding this release of H₂S.

Has there been a public complaint related to H₂S regarding this incident? *

Yes No

SUBSTANCE INFORMATION

The user must now report the substance released and the concentration of H₂S in that substance to satisfy the requirements in the Detailed Incident Report.

The screenshot shows the 'Substance Information' form. A red box highlights the 'Substance' dropdown menu, which is open and shows the following options: Natural Gas, Oil, Other, Refined Product or Chemical, and Water. The table below has columns for Spilled / Released Amount, Recovered Amount, Lost Amount, and Concentration of H₂S (in ppm). The first row shows 'Unknown' for Spilled / Released Amount and '0.000' for the other three columns. A red 'X' is in the bottom right corner.

Substance *	Spilled / Released Amount	Recovered Amount	Lost Amount	Concentration of H ₂ S (in ppm)
1 Natural Gas	<input type="checkbox"/> Unknown			
Oil	0.000	0.000	0.000	0.000
Other				
Refined Product or Chemical				
Water				

Example 1: An on-lease Oil release of 20m³ containing 2000ppm H₂S.

The screenshot shows the 'Substance Information' form with an example entry for 'Oil'. The 'Substance' dropdown is set to 'Oil'. The 'Spilled / Released Amount' is 20, 'Recovered Amount' is 0, and 'Lost Amount' is 20.000. The 'Concentration of H₂S (in ppm)' is 2000. The 'Totals' row shows 20.000 for Spilled / Released Amount, 0.000 for Recovered Amount, 20.000 for Lost Amount, and 2000.000 for Concentration of H₂S (in ppm). A red 'X' is in the bottom right corner.

Substance *	Spilled / Released Amount	Recovered Amount	Lost Amount	Concentration of H ₂ S (in ppm)
1 Oil	20	0	20.000	2000
Totals	20.000	0.000	20.000	2000.000

All substances are measured in m³.

Example 2: A Natural Gas release of an unknown volume containing 2000ppm H₂S.

The screenshot shows the 'Substance Information' form with an example entry for 'Natural Gas'. The 'Substance' dropdown is set to 'Natural Gas'. The 'Spilled / Released Amount' is 'Unknown' (checked), 'Recovered Amount' is 0, and 'Lost Amount' is 0.000. The 'Concentration of H₂S (in ppm)' is 2000. The 'Totals' row shows 0.000 for Spilled / Released Amount, 0.000 for Recovered Amount, 0.000 for Lost Amount, and 2000.000 for Concentration of H₂S (in ppm). A red 'X' is in the bottom right corner.

Substance *	Spilled / Released Amount	Recovered Amount	Lost Amount	Concentration of H ₂ S (in ppm)
1 Natural Gas	<input checked="" type="checkbox"/> Unknown	0		2000
Totals	0.000	0.000	0.000	2000.000

All substances are measured in m³.

Note: The ability to report an unknown volume for the spilled/released amount is limited to the substance type "Natural Gas" and "Other". All remaining substance types are still required to report a volume in the spilled/released amount field.

Questions?

If you have any questions or concerns, contact ER Service desk at 1-855-219-9373 or

Er.servicedesk@gov.sk.ca