



Department of **Mines,**  
**Petroleum and Exploration**

# **Guideline — Annual pipeline performance report for pipeline licensees**

**Petroleum and Greenhouse Gas Pipelines Regulations 1970  
Petroleum and Greenhouse Gas Storage (Submerged  
Lands) (Pipelines) Regulations 2022**

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## Glossary

Abbreviation/term	Meaning
AS	Australian Standard
CCS	Carbon capture and storage
CP	Cathodic protection — system used to control the corrosion of metal surfaces by making them the cathode of an electrochemical cell
FFP	Fit for purpose — refers to the requirement in AS 2885 that a high-pressure pipeline system must be designed, constructed, operated and maintained to reliably perform its function over its design life. Operators are required to demonstrate through appropriate documentation (engineering assessments, SMS, compliance with technical specifications, etc.) the FFP of a pipeline licensed under the PGGPA
GHG	Greenhouse gas substance, per section 6E(1) of the PGEGBSA, briefly: (a) a primary greenhouse gas substance (in a gaseous or liquid state); (b) a mixture of a substance that consists overwhelmingly of a primary greenhouse gas substance, with one or more incidental greenhouse gas-related substances, or a detection agent (in a gaseous or liquid state)
ILI	In-line inspection — non-destructive testing to verify the health of the pipeline by deploying inspection tools inside the pipeline
IMP	Integrity Management Plan — a structured framework designed to ensure the safe, reliable, and compliant operation of submarine pipeline systems throughout their lifecycle
Location class	Classification of the route of the pipeline based on land use
MAOP	Maximum Allowable Operating Pressure — maximum pressure at which a pipeline system is approved to be operated
PGEGBSA	<i>Petroleum, Geothermal Energy and Greenhouse Gas Storage Act 1967</i>
PGGPA	<i>Petroleum and Greenhouse Gas Pipelines Act 1969</i>
PGGPR	Petroleum and Greenhouse Gas Pipelines Regulations 1970
PGGS(SL)A	<i>Petroleum and Greenhouse Gas Storage (Submerged Lands) Act 1982</i>
PGGS(SL)(P)R	Petroleum and Greenhouse Gas Storage (Submerged Lands) (Pipelines) Regulations 2022
PLAA	<i>Petroleum Legislation Amendment Act 2024</i>

Abbreviation/term	Meaning
PIMP	Pipeline Integrity Management Plan — a core document required by AS 2885 that outlines the strategies, systems and procedures used to ensure the safe and reliable operation of a pipeline throughout its lifecycle
PPA69	<i>Petroleum Pipelines Act 1969</i>
P(SL)A82	<i>Petroleum (Submerged Lands) Act 1982</i>
ROP	Restricted Operating Pressure — lesser than the MAOP imposed on the pipeline from time to time for the safety of the pipeline system or process reasons
ROV	Remotely operated vehicle
SCE	Safety critical equipment — any equipment, system or component whose failure could lead to a major accident or significant harm to the operations or assets
SMS	Safety Management Study — requirement of AS 2885 which is a process that identifies threats to the integrity of the pipeline system

## Legislative context

Western Australia has established a regulatory framework for carbon capture and storage (CCS) through the *Petroleum Legislation Amendment Act 2024* (PLAA), for enabling the transport and underground storage of CO<sub>2</sub> and regulating naturally occurring hydrogen exploration. This further required the development of regulations, procedures and guidance to support the reformed greenhouse gas legislation.

The PLAA introduced amendments to the *Petroleum Pipelines Act 1969* (PPA69), the *Petroleum (Submerged Lands) Act 1982* (P(SL)A82), and associated subsidiary legislation, the Petroleum Pipelines Regulations 1970 and the Petroleum (Submerged Lands) (Pipelines) Regulations 2022 to permit the transportation of greenhouse gases (GHG) in a GHG pipeline or to blend hydrogen with petroleum in a petroleum pipeline.

The conveyance of GHG and other substances through the pipeline, introduces specific risks that must be managed diligently. To ensure safe and effective transport, these risks should be addressed using industry best practices and a proper and workmanlike approach.

To support this, amendments to the Petroleum Pipelines Regulations 1970 and the Petroleum (Submerged Lands) (Pipelines) Regulations 2022 now require pipeline licensees to submit an **annual pipeline performance report**. This obligation is set out

under regulation 27 of the Petroleum and Greenhouse Gas Storage Pipelines Regulations 1970 (PGGPR) and regulation 10B of the Petroleum and Greenhouse Gas Storage (Submerged Lands) (Pipelines) Regulations 2022 (PGGS(SL)(P)R).

Under the requirements set out in the PGGPR and PGGS(SL)(P)R (both regulations<sup>1</sup>), pipelines currently licensed under the *Petroleum and Greenhouse Gas Pipelines Act 1969* (PGGPA) and the *Petroleum and Greenhouse Gas Storage (Submerged Lands) Act 1982* (PGGS(SL)A) for the conveyance of petroleum are also obligated to submit an annual pipeline performance report.

Following the enactment of amendments to both regulations, the transitional provisions provide existing pipeline licensees a 12-month period to submit their first annual pipeline performance report to comply with this new regulatory requirement.

## Purpose

This guideline is to inform the pipeline licensee on the expected information to be submitted in an annual pipeline performance report. The intended audience for this guideline is a petroleum, geothermal or greenhouse gas pipeline licence holder, pipeline and facility operators and the Department of Mines, Petroleum and Exploration (DMPE).

## Objectives

Pipeline licensees can include multiple pipelines in the one report upon the written approval of the Minister in accordance with regulation 27 of the PGGPR and regulation 10B of the PGGS(SL)(P)R. Information being reported for each pipeline must be clearly identified.

The objective of this guideline is to assist pipeline licensees in the preparation of the annual pipeline performance report by outlining the topics the report will cover and the information each topic will include. The annual pipeline performance report must be provided to DMPE in digital format (preferably as a PDF file) within a period of 30 days from the licence anniversary date or at a date agreed by the Minister. The report should be lodged electronically via the Petroleum, Geothermal and Greenhouse Gas Register (PGGGR) using the online submission page against the relevant pipeline title(s).

### Relevant links:

[Access Petroleum Geothermal and Greenhouse Gas Register \(PGGGR\) | Western Australian Government](#)

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<sup>1</sup> When a reference is made to 'both regulations' in this document, the regulations referenced are the PGGPR and the PGGS(SL)(P)R.

[PGR Online Data Submission](#)

## Content of the annual pipeline performance report

This report is intended to satisfy requirements under both regulations to report on the performance of the licensee in maintaining the integrity of the pipeline. This guideline includes the required reporting information in Appendix 1 (for PGGPR) and Appendix 2 (for PGGS(SL)(P)R). The following information is required for each licence in the annual pipeline performance report:

Table of contents	PGGPR	PGGS(SL)(P)R
Cover page (title details)	X	X
1. Pipeline system description	X	X
2. Pipeline management system	X	X
– Audits	X	X
– Records Management	X	X
3. Pipeline integrity reporting	X	X
– Fit for purpose (FFP) assessment	X	
– Pipeline operations	X	X
– Fracture resistance assessment	X	
– Pipeline coating survey reports	X	X
– Cathodic protection (CP) surveys	X	X
– In-line inspection (ILI)	X	X
– Direct inspections	X	X
– Pipeline leakage survey	X	X
– Pipeline corridor management	X	
4. Station operations and maintenance	X	X
– Safety critical equipment (SCE)	X	X
– Operations and maintenance activities	X	X
5. Anomaly assessment and defect repair	X	X
6. Changes to operating conditions	X	X
7. Conclusion	X	X

X – applicable to this regulation

## Pertinent legislation, standards and codes

The following documents are relevant to the preparation of the annual pipeline performance report:

### Acts

*Petroleum and Greenhouse Gas Pipelines Act 1969*

*Petroleum and Greenhouse Gas Storage (Submerged Lands) Act 1982*

### Regulations

Petroleum and Greenhouse Gas Pipelines Regulations 1970

Petroleum and Greenhouse Gas Storage (Submerged Lands) (Pipelines) Regulations 2022

### Standards/Codes<sup>2</sup>

Australian Standard (AS) 2885 - Parts 0 – 6

Det Norske Veritas standard, DNV-ST-F101

International Organisation for Standardisation (ISO) 27913

## Reporting templates

These templates have been provided by DMPE to assist pipeline licensees in the preparation of annual pipeline performance reports.

Template A ([DRAFT - PGGPR Annual Pipeline Performance Report - Template](#)) satisfies the requirements under the Petroleum and Greenhouse Gas Pipelines Regulations 1970. Requirements are outlined in Appendix 1.

Template B ([DRAFT - PGGS\(SL\)\(P\)R Annual Pipeline Performance Report - Template](#)) satisfies the requirements under the Petroleum and Greenhouse Gas Storage (Submerged Lands) (Pipelines) Regulations 2022. Requirements are outlined in Appendix 2.

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<sup>2</sup> Standards/codes are revised periodically. The current published versions of the standards are referenced in this document.



## Appendix 1 – Annual pipeline performance report for pipeline licensees (under the PGGPR)

*This guidance been provided by the Department for Mines, Petroleum and Exploration to assist licensees in the preparation of annual pipeline performance reports. It must always contain the following information as a minimum requirement.*

### Title summary

This report is intended to satisfy requirements under the **Petroleum and Greenhouse Gas Pipelines Regulations 1970**, to report on the performance of the licensee in maintaining the integrity of the pipeline.

<b>Licence Number(s)*</b>	<PL X1, PL X2>
<b>Reporting period</b>	<licence year start date> to <licence year end data>

\*Note – if the annual pipeline performance report relates to more than one pipeline licence (title), please provide details of the date approval was given for the combination of titles in one report. Licence year start date and end date will be assigned based on one of the licences.

### Document control

<b>Author</b>	<Name, Surname>
<b>Reviewer</b>	<Name, Surname>
<b>Approved</b>	<Document approval date>

### Title holders

Company Name	Interest in Title	ACN/ABN
<Name>	%	<Number>
<Name>	%	<Number>
<Name>	%	<Number>
<Name>	%	<Number>

## 1. Pipeline system description

Briefly describe an overview of the pipeline system. This may include:

- overview of the licensed pipeline(s) included in the report (refer to table 1);
- licensee/operator arrangements; and/or
- a description of any suspended/abandoned assets (and the date of the suspension).

**Table 1: Pipeline licence information**

Licence No.	Consent to operate date	Length (km)	MAOP (kPa)	Diameter (mm)	Substance conveyed
<PL X1>	Click or tap to enter a date.	km	kPa	mm	e.g. oil, condensate, gas, GHG substance
<PL X2>	Click or tap to enter a date.	km	kPa	mm	e.g. oil, condensate, gas, GHG substance

## 2. Pipeline management system

### 2.1 Audits

**Table 2: Pipeline licence audits**

<PL X1>	Briefly describe the pipeline integrity management-related audit reports for this pipeline including their findings carried out during the licence year. If no audits have been carried out during the reporting period, this must be stated in this section.
<PL X2>	Briefly describe the pipeline integrity management-related audit reports for this pipeline including their findings carried out during the licence year. If no audits have been carried out during the reporting period, this must be stated in this section.

### 2.2 Records management

Provide a summary of the key documents required by AS 2885 in Table 2 for each pipeline in the annual report.

**Table 3: Key documents (Source: AS 2885.3:2022-Appendix A)**

Document name	Licence No.	Last review date	Next scheduled review date
Pipeline Management System	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Isolation Plan	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Fit for purpose assessment	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Pipeline Integrity Management Plan (PIMP)	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Fracture resistance assessment	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Emergency response plan	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Safety Management Study (SMS) periodic operational review	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Location Class (with SMS)	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.
Approvals Structure	<PL X>	Click or tap to enter a date.	Click or tap to enter a date.

### 3. Pipeline integrity reporting

#### 3.1 Fit for purpose (FFP) assessment

Provide information from the most recent FFP assessment:

- date the latest FFP assessment was completed;
- anticipated date of the next FFP assessment; and
- the corrective actions to be completed (if any).

## 3.2 Pipeline operations

### Overpressure protection

Provide information on:

- the number of instances where pressure excursions exceeded the MAOP for steady state conditions;
- the number of instances where pressure excursions exceeded 110% of the MAOP for transient conditions; and
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it.

### Gas composition

Provide information on:

- the number of instances where the composition of the conveyed substance has exceeded the pipeline licence limits;
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it; and
- justification for compliance where composition limits have been exceeded at specific times or locations.

### Gas temperature

Provide information on:

- the number of instances where the temperature of the conveyed substance has exceeded the licensed limits; and
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it.

## 3.3 Fracture resistance assessment

Provide information for pipelines that do not have a fracture control plan and associated test data conforming to AS 2885.1:1997 including its amendment 1 (2001) as detailed in section 6.2.4 of AS 2885.3:2022.

- date when fracture resistance assessment was originally developed; and
- details regarding the differences between a retrospective fracture control plan and the actual constructed pipelines fracture resistance.

### 3.4 Pipeline coating survey reports

Describe the overall coating survey methodology.

Provide a description of the findings and any safety and integrity implications (where applicable) in terms of what has been found and what is being done about it.

If a coating survey has not been undertaken in the current year, then either:

- note the year it will be conducted and year of last coating survey; or
- identify the requirements as 'not applicable'.

**Table 4: Summary of pipeline coating survey**

<b>Licence No.</b>	<PL X1>	<b>No. scheduled</b>	<1>
<b>Location</b>	<KP0-KP10>	<b>No. completed</b>	<1>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• number of defects &lt; PIMP specification (e.g.15% IR);</li> <li>• number of defects &gt; PIMP specification (e.g.15% IR);</li> <li>• the number of defects repaired;</li> <li>• the number of defects investigated; and</li> <li>• other findings.</li> </ul>			
<b>Licence No.</b>	<PL X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<2>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• number of defects &lt; PIMP specification (e.g.15% IR);</li> <li>• number of defects &gt; PIMP specification (e.g.15% IR);</li> <li>• the number of defects repaired;</li> <li>• the number of defects investigated; and</li> <li>• other findings.</li> </ul>			

### 3.5 Cathodic protection (CP) surveys

Provide a summary of:

- overall CP methodology (for example, potential surveys conducted every six/twelve months, Transformer Rectifier Unit checks, Insulation joints (Flange Insulation Kit/Monolithic Insulation Joint) checks); and
- findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

**Table 5: Summary of the CP survey**

<b>Licence No.</b>	<PL X1>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• the findings; and</li> <li>• any corrective action associated with the non-compliances.</li> </ul>			
<b>Licence No.</b>	<PL X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP75>	<b>No. completed</b>	<2>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• the findings; and</li> <li>• any corrective action associated with the non-compliances.</li> </ul>			

### 3.6 In-line inspections (ILI)

For each licence in the annual report, provide:

- a summary of the year's ILI reports and their accompanying data; and
- a description of the findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

If an ILI assessment has not been undertaken in the current year, then:

- note the year it was last conducted and the year it will be next conducted; or
- identify the requirement as 'not applicable'.

If an ILI is not planned to be undertaken, then this section should include details of what alternative methods are being used to determine the pipelines structural integrity is being maintained.

Table 6: Summary of the ILI

Licence No.		<PL X1>		
Criteria		No. of defects recorded	No. of defects repaired	Comments
Estimated Repair Factor (ERF) <sup>3</sup>	>1	#	#	The commentary will include information about: <ul style="list-style-type: none"> <li>anomalies and proposed timing for assessment.</li> </ul>
	0.9<ERF<1	#	#	
Non corrosion related	Dents	#	#	
	Gouges	#	#	
	Cracks	#	#	
	Dents and gouge combinations	#	#	
Licence No.		<PL X2>		
Criteria		No. of defects recorded	No. of defects repaired	Comments
Estimated Repair Factor (ERF)	>1	#	#	The commentary will include information about: <ul style="list-style-type: none"> <li>anomalies and proposed timing for assessment.</li> </ul>
	0.9<ERF<1	#	#	
Non corrosion related	Dents	#	#	
	Gouges	#	#	
	Cracks	#	#	
	Dents and gouge combinations	#	#	

<sup>3</sup> Base all integrity calculations on the MAOP not the operating pressure

### 3.7 Direct inspections

Provide:

- a list of the direct inspections conducted in the previous year; and
- a description of the findings and the implications on safety and integrity (if applicable) in terms of what has been found and what is being done about it.

**Table 7: Summary of the direct inspections**

Licence No.	<PL X1>	Inspections completed	<2>
Location	<KP25>		
Comments and inspection outcome			
The commentary will include information about: <ul style="list-style-type: none"><li>• reason for direct inspection;</li><li>• pipeline's direct inspection findings; and</li><li>• outcomes and any rectification required.</li></ul>			
Licence No.	<PL X2>	Inspections completed	<2>
Location	<KP10, KP30>		
Comments and inspection outcome			
The commentary will include information about: <ul style="list-style-type: none"><li>• reason for direct inspection;</li><li>• pipeline's direct inspection findings; and</li><li>• outcomes and any rectification required.</li></ul>			

### 3.8 Pipeline leakage surveys

Provide a summary of the:

- overall leakage survey methodology; and
- findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

If a leak survey has not been undertaken in the current year, then either:

- note the year it will be conducted and year of last leak survey; or
- identify the requirement as 'not applicable'.

This activity also includes leakage surveys for pipeline facilities.



**Table 8: Summary of the pipeline leakage survey**

<b>Licence No.</b>	<PL X1>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>any leaks found;</li> <li>the investigation of leaks found; and</li> <li>outcomes and rectification action.</li> </ul>			
<b>Licence No.</b>	<PL X2>	<b>No. scheduled</b>	<1>
<b>Location</b>	<KP0-KP75>	<b>No. completed</b>	<1>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>any leaks found;</li> <li>the investigation of leaks found; and</li> <li>outcomes and rectification action.</li> </ul>			

### 3.9 Pipeline corridor management

#### Pipeline patrols

Provide information on the patrol activities through the reporting period for each pipeline licence in Table 9.

**Table 9: Summary of the pipeline patrols**

<b>Licence No.</b>	<PL X1>	<b>Patrol type</b>	Areal <input checked="" type="checkbox"/>
<b>Location</b>	<KP0 – KP100>		Land <input type="checkbox"/>
<b>No. scheduled</b>	<1>	<b>No. completed</b>	<1>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>pipeline corridor erosions/subsidence/washouts leading to reduction of soil cover or can affect the integrity of the operating pipeline; and</li> <li>unauthorised third-party activities that can affect the integrity of the operating pipeline.</li> </ul>			

<b>Licence No.</b>	<PL X2>	<b>Patrol type</b>	Areal <input type="checkbox"/>
<b>Location</b>	<KP0 – KP200>		Land <input checked="" type="checkbox"/>
<b>No. scheduled</b>	<1>	<b>No. completed</b>	<1>
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• pipeline corridor erosions/subsidence/washouts leading to reduction of soil cover or can affect the integrity of the operating pipeline; and</li> <li>• unauthorised third-party activities that can affect the integrity of the operating pipeline.</li> </ul>			

### Encroachment management

Provide information on any encroachments to the pipeline that have been identified during the reporting period for each pipeline in Table 10.

**Table 10: Summary of encroachments identified**

<b>Licence No.</b>	<PL X1>
<b>Location</b>	<KP10>
<b>Comments</b>	
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• summary of the encroachment identified and the effect on the integrity of the operating pipeline.</li> </ul>	
<b>Licence No.</b>	<PL X2>
<b>Location</b>	<KP25>
<b>Comments</b>	
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• summary of the encroachment identified and the effect on the integrity of the operating pipeline.</li> </ul>	

## 4. Station operations and maintenance

### 4.1 Safety critical equipment (SCE)

Provide information on the SCE such as pressure vessels, emergency shutdown valves, pressure relief valves and/or other equipment identified by the licensee as SCE in Table 11.

**Table 11: Summary of SCEs**

<b>Licence No.</b>	<PL X1>			
<b>Location</b>	<Inlet Station>			
<b>No. of SCE</b>	<10>			
<b>Inspection/Testing:</b>	<b>No. scheduled</b>	<4>	<b>No. completed</b>	<4>
<b>Comments</b>				
The commentary will include information about: <ul style="list-style-type: none"> <li>any non-conformances and / or corrective actions undertaken.</li> </ul>				
<b>Licence No.</b>	<PL X2>			
<b>Location</b>	<Delivery Station>			
<b>No. of SCE</b>	<5>			
<b>Inspection/Testing:</b>	<b>No. scheduled</b>	<4>	<b>No. completed</b>	<4>
<b>Comments</b>				
The commentary will include information about: <ul style="list-style-type: none"> <li>any non-conformances and/or corrective actions undertaken.</li> </ul>				

### 4.2 Operations and maintenance activities

Provide information on carried out to schedule in accordance with the Pipeline Integrity Management Plan (PIMP) (not addressed in the above sections).

**Table 12: Summary of station operations and maintenance activities**

<b>Licence No.</b>	<PL X1>	<b>Location</b>	<Offtake Station>
<b>Activity</b>			
<b>No. scheduled</b>	<2>	<b>No. completed</b>	<2>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>any corrective maintenance.</li> </ul>			
<b>Licence No.</b>	<PL X2>	<b>Location</b>	<Delivery Station>
<b>Activity</b>			
<b>No. scheduled</b>	<3>	<b>No. completed</b>	<3>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>any corrective maintenance.</li> </ul>			

## 5. Anomaly assessment and defect repair

Provide a summary of the anomaly assessment and defect repair carried out during the reporting period.

**Table 13: Summary of anomaly assessment and repair**

<b>Licence No.</b>	<PL X1>	<b>Location</b>	<KP10>
<b>Anomaly assessment and repair</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>anomaly classifications (including detailing of clusters);</li> <li>defect repair descriptions; and</li> <li>non-repair methodologies (why the defect is not going to be repaired).</li> </ul>			
<b>Licence No.</b>	<PL X2>	<b>Location</b>	<KP25>
<b>Anomaly assessment and repair</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>anomaly classifications (including detailing of clusters);</li> <li>defect repair descriptions; and</li> <li>non-repair methodologies (why the defect is not going to be repaired).</li> </ul>			

## 6. Changes to operating conditions

Provide information on any Restricted Operating Pressure (ROP) that has been applied to the pipeline.

The changes may include:

- design change (fluid composition, new inlets/outlets or upgrade of facilities, etc.);
- Restricted Operating Pressure (ROP); and/or
- adaptation of new/emerging technologies/new innovative processes.

**Table 14: Summary of ROP applied to the pipeline**

Licence No.	<PL X1>	Change criteria	ROP
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• main reasons for the ROP;</li> <li>• list of critical action items to return the pipeline system to normal operating conditions;</li> <li>• timeline of when the corrective actions will be completed; and</li> <li>• scheduled date for next assessment, if not returned to normal operations.</li> </ul>			
Licence No.	<PL X2>	Change Criteria	ROP
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• main reasons for the ROP;</li> <li>• list of critical action items to return the pipeline system to normal operating conditions;</li> <li>• timeline of when the corrective actions will be completed; and</li> <li>• if not returned to normal operations, scheduled date for next assessment.</li> </ul>			

## 7. Conclusion

Summary section for the following items:

- improvements identified for the next reporting period;
- variations/modifications carried out during the reporting period;
- variations/modifications planned to be carried out during the next reporting period;
- any other information that is related to a condition on the pipeline licence; and
- any other information the licensee considers relevant to the licence.

## Appendix 2 – Annual pipeline performance report for pipeline licensees (under the PGG(SL)(P)R)

*This guidance been provided by the Department for Mines, Petroleum and Exploration to assist licensees in the preparation of annual pipeline performance reports. It must always contain the following information as a minimum requirement.*

### Title summary

This report is intended to satisfy requirements under the **Petroleum and Greenhouse Gas Storage (Submerged Lands) (Pipelines) Regulations 2022**, to report on the performance of the licensee in maintaining the integrity of the pipeline.

<b>Licence Number(s)*</b>	< TPL/X1, TPL/X2>
<b>Reporting period</b>	<licence year start date> to <licence year end data>

\*Note – if the annual pipeline performance report relates to more than one pipeline licence (title), please provide details of the date approval was given for the combination of titles in one report. Licence year start date and end date will be assigned based on one of the licences.

### Document control

<b>Author</b>	
<b>Reviewer</b>	
<b>Approved</b>	Document approval date

### Title holders

Company Name	Interest in Title	ACN/ABN
	%	
	%	
	%	
	%	

## 1. Pipeline system description

Briefly describe an overview of the pipeline system. This may include:

- overview of the licensed pipeline(s) included in the report (refer to table 1);
- licensee/operator arrangements; and/or
- a description of any suspended/abandoned assets (and the date of the suspension).

**Table 1: Pipeline licence information**

Licence No.	Consent to operate date	Length (km)	MAOP (kPa)	Diameter (mm)	Substance conveyed
<TPL/X1>	Click or tap to enter a date.	km	kPa	mm	e.g. oil, condensate, gas, GHG substance
<TPL/X2>	Click or tap to enter a date.	km	kPa	mm	e.g. oil, condensate, gas, GHG substance

## 2. Pipeline management system

### 2.1 Audits and reviews<sup>4</sup>

**Table 2: Pipeline licence audits and reviews**

<TPL/X1>	Briefly describe the pipeline integrity management-related audit reports for this pipeline including their findings carried out during the licence year. If no audits have been carried out during the reporting period, this must be stated in this section.
<TPL/X2>	Briefly describe the pipeline integrity management-related audit reports for this pipeline including their findings carried out during the licence year. If no audits have been carried out during the reporting period, this must be stated in this section.

### 2.2 Records management

Provide a summary of the licensee's key documents required by Section 12 of DNV-ST-F101. Examples of the key documents include (but not limited to) strategies for corrosion control inspection and maintenance, emergency response and emergency pipeline repair strategy.

<sup>4</sup> Audits and reviews as recommended by section 2.3.8 of DNV-RP-F116

**Table 3: Key documents (Source: DNV-ST-F101)**

Document name	Licence No.	Last review date	Next scheduled review date
<Document name>	<TPL/X>	Click or tap to enter a date.	Click or tap to enter a date.
<Document name>	<TPL/X>	Click or tap to enter a date.	Click or tap to enter a date.

### 3. Pipeline integrity reporting

#### 3.1 Pipeline operations

##### Overpressure protection

Provide information on:

- the number of instances where pressure excursions exceeded the MAOP for steady state conditions;
- the number of instances where pressure excursions exceeded 110% of the MAOP for transient conditions; and
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it.

##### Gas composition

Provide information on:

- the number of instances where the composition of the conveyed substance has exceeded the pipeline licence limits;
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it; and
- justification for compliance where composition limits have been exceeded at specific times or locations.



## Gas temperature

Provide information on:

- the number of instances where the temperature of the conveyed substance has exceeded the licensed limits; and
- a description of the findings and the implications on the integrity (if applicable) in terms of what has been found and what is being done about it.

## 3.2 Pipeline coating survey reports

Describe the overall coating survey methodology. Provide a description of the findings and any safety and integrity implications (where applicable) in terms of what has been found and what is being done about it.

If a coating survey has not been undertaken in the current year, then either:

- note the year it will be conducted and year of last coating survey; or
- identify the requirements as 'not applicable'.

**Table 4: Summary of pipeline coating survey**

<b>Licence No.</b>	<TPL/X1>	<b>No. scheduled</b>	<1>
<b>Location</b>	<KP0-KP10>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• number of defects &lt; IMP specification (e.g. 15% IR);</li> <li>• number of defects &gt; IMP specification (e.g. 15% IR);</li> <li>• the number of defects repaired;</li> <li>• the number of defects investigated; and</li> <li>• other findings.</li> </ul>			
<b>Licence No.</b>	<TPL/X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<2>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• number of defects &lt;IMP specification (e.g. 15% IR);</li> <li>• number of defects &gt; IMP specification (e.g. 15% IR);</li> <li>• the number of defects repaired;</li> <li>• the number of defects investigated; and</li> </ul>			

- other findings.

### 3.3 Cathodic protection (CP) surveys

Provide a summary of the:

- overall CP methodology (for example, potential surveys conducted every six/twelve months, Transformer Rectifier Unit checks, Insulation joints (Flange Insulation Kit/Monolithic Insulation Joint) checks); and
- findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

**Table 5: Summary of the CP survey**

<b>Licence No.</b>	<TPL/X1>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• the findings; and</li> <li>• any corrective action associated with the non-compliances.</li> </ul>			
<b>Licence No.</b>	<TPL/X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• the findings; and</li> <li>• any corrective action associated with the non-compliances.</li> </ul>			

### 3.4 In-line inspections (ILI)

For each licence in the annual report, provide:

- a summary of the year's ILI reports and their accompanying data; and
- a description of the findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

If an ILI assessment has not been undertaken in the current year, then:

- note the year it was last conducted and the year it will be next conducted; or
- identify the requirement as 'not applicable'.

If an ILI is not planned to be undertaken, then this section should include details of what alternative methods are being used to determine the pipelines structural integrity is being maintained.

**Table 6: Summary of the ILI**

Licence No.		<TPL/X1>		
Criteria		No. of defects recorded	No. of defects repaired	Comments
Estimated Repair Factor (ERF) <sup>5</sup>	>1	<3>	<3>	The commentary will include information about: <ul style="list-style-type: none"> <li>• anomalies and proposed timing for assessment.</li> </ul>
	0.9<ERF<1			
Non corrosion related	Dents			
	Gouges			
	Cracks			
	Dents and gouge combinations			
Licence No.		<TPL/X2>		
Criteria		No. of defects recorded	No. of defects repaired	Comments
	>1	<3>	<3>	The commentary will include information about:

<sup>5</sup> Base all integrity calculations on the MAOP not the operating pressure

<b>Estimated Repair Factor (ERF)</b>				<ul style="list-style-type: none"> <li>anomalies and proposed timing for assessment.</li> </ul>
	<b>0.9&lt;ERF&lt;1</b>			
<b>Non corrosion related</b>	<b>Dents</b>			
	<b>Gouges</b>			
	<b>Cracks</b>			
	<b>Dents and gouge combinations</b>			

### 3.5 ROV/other surveys and inspections

Provide the summary in Table 7 of:

- remotely operated vehicle survey/acoustic survey methods like Side Scan Sonar or Multi Beam Echo Sounder surveys or diving operations; and
- inspection of the shore crossing section, flexible hoses, etc.

**Table 7: Summary of ROV/other surveys and inspections**

<b>Licence No.</b>	<TPL/X1>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>the findings; and</li> <li>any corrective action associated with the non-compliances.</li> </ul>			
<b>Licence No.</b>	<TPL/X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>the findings; and</li> <li>any corrective action associated with the non-compliances.</li> </ul>			

### 3.6 Pipeline leakage surveys

Provide a summary for each pipeline in the annual report of the:

- overall leakage survey methodology; and
- findings and the implications on safety and integrity in terms of what has been found and what is being done about it.

If a leak survey has not been undertaken in the current year, then either:

- note the year it will be conducted and year of last leak survey, or
- identify the requirement as 'not applicable'.

This activity also includes leakage surveys for pipeline facilities.

**Table 8: Summary of the pipeline leakage survey**

<b>Licence No.</b>	<TPL/X1>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• any leaks found;</li> <li>• the investigation of leaks found; and</li> <li>• outcomes and rectification action.</li> </ul>			
<b>Licence No.</b>	<TPL/X2>	<b>No. scheduled</b>	<2>
<b>Location</b>	<KP0-KP100>	<b>No. completed</b>	<1>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>• any leaks found;</li> <li>• the investigation of leaks found; and</li> <li>• outcomes and rectification action.</li> </ul>			

## 4. Station operations and maintenance

### 4.1 Safety critical equipment (SCE)

Provide information on the SCE such as pressure vessels, emergency shutdown valves, pressure relief valves and/or other equipment identified by the licensee as SCE in Table 9.

**Table 9: Summary of SCEs**

<b>Licence No.</b>	<TPL/X1>			
<b>Location</b>	<Inlet Station>			
<b>No. of SCE</b>	<10>			
<b>Inspection/Testing:</b>	<b>No. scheduled</b>	<5>	<b>No. completed</b>	<5>
<b>Comments</b>				
The commentary will include information about: <ul style="list-style-type: none"> <li>any non-conformances and/or corrective actions undertaken.</li> </ul>				
<b>Licence No.</b>	<TPL/X2>			
<b>Location</b>	<Delivery Station>			
<b>No. of SCE</b>	<5>			
<b>Inspection/Testing:</b>	<b>No. scheduled</b>	<4>	<b>No. completed</b>	<4>
<b>Comments</b>				
The commentary will include information about: <ul style="list-style-type: none"> <li>any non-conformances and/or corrective actions undertaken.</li> </ul>				

## 4.2 Operations and maintenance activities

Provide information on carried out to schedule in accordance with the Integrity Management Plans (IMP) (not addressed in the above sections).

**Table 10: Summary of station operations and maintenance activities**

<b>Licence No.</b>	<TPL/X1>	<b>Location</b>	<Offtake Station>
<b>Activity</b>			
<b>No. scheduled</b>	<2>	<b>No. completed</b>	<2>
<b>Comments</b>			
The commentary will include information about: <ul style="list-style-type: none"> <li>any corrective maintenance.</li> </ul>			
<b>Licence No.</b>	<TPL/X2>	<b>Location</b>	<Delivery Station>
<b>Activity</b>			
<b>No. scheduled</b>	<3>	<b>No. completed</b>	<3>

Comments
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>any corrective maintenance.</li> </ul>

## 5. Anomaly assessment and defect repair

Provide a summary of the anomaly assessment and defect repair carried out during the reporting period.
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**Table 11: Summary of anomaly assessment and repair**

Licence No.	<TPL/X1>	Location	<KP10>
<b>Anomaly assessment and repair</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>anomaly classifications (including detailing of clusters);</li> <li>defect repair descriptions; and</li> <li>non-repair methodologies (why the defect is not going to be repaired).</li> </ul>			
Licence No.	<TPL/X2>	Location	<KP25>
<b>Anomaly assessment and repair</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>anomaly classifications (including detailing of clusters);</li> <li>defect repair descriptions; and</li> <li>non-repair methodologies (why the defect is not going to be repaired).</li> </ul>			

## 6. Changes to operating conditions

<p>Provide information on any Restricted Operating Pressure (ROP) that has been applied to the pipeline.</p> <p>The changes may include:</p> <ul style="list-style-type: none"> <li>design change (fluid composition, new inlets/outlets or upgrade of facilities, etc.);</li> <li>Restricted Operating Pressure (ROP); and/or</li> <li>adaptation of new/emerging technologies/new innovative processes.</li> </ul>
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**Table 12: Summary of ROP applied to the pipeline**

Licence No.	<TPL/X1>	Change Criteria	ROP
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• main reasons for the ROP;</li> <li>• list of critical action items to return the pipeline system to normal operating conditions;</li> <li>• timeline of when the corrective actions will be completed; and</li> <li>• if not returned to normal operations, scheduled date for next assessment.</li> </ul>			
Licence No.	<TPL/X2>	Change Criteria	ROP
<b>Comments</b>			
<p>The commentary will include information about:</p> <ul style="list-style-type: none"> <li>• main reasons for the ROP;</li> <li>• list of critical action items to return the pipeline system to normal operating conditions;</li> <li>• timeline of when the corrective actions will be completed; and</li> <li>• if not returned to normal operations, scheduled date for next assessment.</li> </ul>			

## 7. Conclusion

<p>Summary section for the following items:</p> <ul style="list-style-type: none"> <li>• improvements identified for the next reporting period;</li> <li>• variations/modifications carried out during the reporting period;</li> <li>• variations/modifications planned to be carried out during the next reporting period;</li> <li>• any other information that is related to a condition on the pipeline licence; and</li> <li>• any other information the licensee considers relevant to the licence.</li> </ul>
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