

Licensee (Company) Name \_\_\_\_\_

Contact Name \_\_\_\_\_ Title \_\_\_\_\_

Phone No. \_\_\_\_\_ Signature \_\_\_\_\_

Purpose \_\_\_\_\_

Location: From \_\_\_\_\_ To \_\_\_\_\_ Connected to Licence No.: \_\_\_\_\_

Line No. \_\_\_\_\_

Start Date \_\_\_\_\_ Expiry Date \_\_\_\_\_

Pipe Specifications \_\_\_\_\_ OD (mm) \_\_\_\_\_ Wall Thickness (mm) \_\_\_\_\_ Length (km) \_\_\_\_\_

MOP (kPa) \_\_\_\_\_ Stress Level \_\_\_\_\_

Substance \_\_\_\_\_ H<sub>2</sub>S Content\* (mol/kmol) \_\_\_\_\_

ERCB Field Centre \_\_\_\_\_ Inspector \_\_\_\_\_

Approval Date \_\_\_\_\_

\*Any proposal involving sour service specifications must be reviewed and approved by Pipeline Technical Operations.

The following is to be completed by the company contact and approved by the ERCB inspector. (See reverse for explanations.)

	Yes	No	NA
<b>1. Directive 056 Notification and Consultation Requirements:</b>			
1.1 Have the applicable notification and consultation requirements in <i>Directive 056</i> been met?	_____	_____	
<b>2. Material Requirements</b>			
<i>New Material</i>			
2.1. Pipe, fittings, flanges, and valves will comply with the material requirements of <i>CSA Z662</i> .	_____	_____	
<i>Used Material</i>			
2.2. Pipe and components have been inspected, tested, or evaluated, and material compliance and integrity have been confirmed for the proposed service.	_____	_____	
<b>3. Design / Construction / Operations</b>			
3.1. Pipeline will comply with the requirements of the <i>Pipeline Regulation</i> , Section 21.	_____	_____	
3.2. Pipeline will comply with the design requirements of <i>CSA Z662</i> .	_____	_____	
3.3. Pipeline will comply with the installation, joining, inspection, and testing requirements of <i>CSA Z662</i> .	_____	_____	
3.4. Pipeline MOP will be compatible with that of other connecting pipelines.	_____	_____	
3.5. Corrosion mitigation procedures will be implemented.	_____	_____	_____
3.6. H <sub>2</sub> S content will be compatible with that of other connecting pipelines.	_____	_____	_____
3.7. For sour service pipelines, an emergency response plan (ERP) will be implemented where required.	_____	_____	_____
3.8. Pipeline will be monitored regularly to detect leaks and ensure public safety.	_____	_____	

## User Notes

### *CSA Z662* refers to *CSA Z662-11: Oil and Gas Pipeline Systems*.

Temporary surface pipeline may only be used for maximum 21 days.

#### 1. *Directive 056* Notification and Consultation Requirements

Yes means all of the applicable requirements in *Directive 056* have been met.

No means that not all of the above applicable requirements have been met.

#### 2. Material Requirements

##### *New Material*

2.1. Yes means that all of the applicable requirements in *CSA Z662*, Clause 5: Materials, have been met.

No means that not all of the above applicable requirements have been met.

##### Note:

- API 5CT (J55 tubing) is allowed for nonsour service only.
- API 5LCP (coiled pipe) is allowed for sweet service and may be used for sour service if the company demonstrates that the API 5LCP coiled pipe used meets the requirements of *CSA Z662*, Clause 16, or a certificate of compliance is provided from the manufacturer or designer (P.Eng.) for the particular coiled pipe.
- The company must demonstrate that fittings, flanges, and valves intended for sour service meet the applicable *CSA Z245* series and NACE MR0175/ISO 15156-2. A certificate of compliance from the manufacturer or designer (P.Eng.) for the particular component is acceptable.

##### *Used Material*

2.2. Yes means that all of the applicable requirements in *CSA Z662*, Clause 5.6: Reuse of Materials, have been met.

No means that not all of the above applicable requirements have been met.

##### Note:

- Used J55 tubing is acceptable, provided that all of tubing has been fully inspected and meets API Recommended Practice 5C1, Clause 7.
- Used coiled pipe is acceptable, provided that the entire pipe has been fully inspected for damage and loss of wall thickness due to corrosion and that mechanical properties have not been affected from uncoiling and recoiling. Used coiled pipe must be fully inspected by visual inspection and either magnetic flux or eddy current method.

#### 3. Design/Construction/Operation Requirements

3.1. Yes means that all of the applicable requirements in the *Pipeline Regulation*, Section 21, have been met.

No means that not all of the above applicable requirements have been met.

3.2. Yes means that all of the applicable requirements as outlined in *CSA Z662*, Clause 4: Design, have been met.

No means that not all of the above requirements have been met.

##### Note:

- The company must ensure that the pipeline has adequate flexibility to withstand expansion or contraction due to changes in ambient or production temperatures.
- The company must ensure that, where required, suitable restraints are in place to control excessive lateral and vertical movement. See the *Pipeline Regulation*, Section 21, and *CSA Z662*, Clause 4.6: Flexibility and Stress Analysis, for specific requirements.
- Threaded connections, mechanical interference fitting joints, and seal welding of threaded connections are not acceptable for sour service.
- Surface pipelines must be buried at all road and trail crossings.

3.3 Yes means that all of the applicable requirements in *CSA Z662*, Clauses 6: Installation, 7: Joining, and 8: Pressure Testing, have been met.

No means that not all of the above applicable requirements have been met.  
**Note:**

- Welding of API 5CT (J55 tubing and others) is not acceptable.
- For sour service, welding of pipe grades greater than 386 MPa must be reviewed by the Pipeline Section.
- For sour service pipelines, all butt welds must be 100% inspected around their circumference. (See *CSA Z662*, Clause 16.9.3.)
- For nonsour service pipelines, all butt welds within the limits of a water crossing or an uncased road or railway crossing and all pressure-containing welds not subject to a pressure test in place must be nondestructively inspected. (See *CSA Z662*, Clause 7.10.3: Mandatory Nondestructive Inspection.)
- The pipeline must be hydrostatically pressure tested.
- A minimum of one hour-long pressure test is required for pipelines that are fully exposed. (See *CSA Z662*, Clause 8.7.5.)
- Pressure recorders, including recording charts, must be used to accurately record the pressures during the test (*CSA Z662*, Clause 8.7.7).

3.4. Yes means that the proposed pipeline maximum operating pressure (MOP) is the same as those of other connecting pipelines or that pressure control devices are in place to protect the pipelines from overpressure, as outlined in *CSA Z662*, Clause 4.18: Pressure Control and Overpressure Protection of Piping.

No means that the MOPs are not the same and that no pressure control devices are in place to protect the pipelines from overpressure.

3.5. Yes means that all of necessary steps have been taken to ensure that corrosion is mitigated during the temporary operating period.

No means that corrosion mitigation measures will not be in place during the temporary operating period.

N/A means that corrosion mitigation measures are not required because the pipeline is noncorrodible.

3.6. Yes means that the proposed pipeline hydrogen sulphide (H<sub>2</sub>S) content is the same as the other connecting pipelines or that a control mechanism is in place to ensure that the proposed pipeline and other connecting pipelines are subject to the same H<sub>2</sub>S content.

No means that H<sub>2</sub>S content is not the same for all the pipelines and that no control mechanisms are in place to ensure that the pipelines are subject to the same H<sub>2</sub>S content.

N/A means that the service fluid contains no H<sub>2</sub>S.

**Note:** For sour service, prior to operation the company must consider removing any solids produced from the well that are trapped in the pipeline and batching the pipeline with inhibitor.

3.7. Yes means that an ERP has been established in accordance with *Directive 071*.

No means that no ERP has been established.

N/A means that the service fluid contains no H<sub>2</sub>S.

3.8. Yes means that all precautions have been taken to ensure that the pipeline will be regularly monitored for leaks and vandalism.

No means that the pipeline will not be monitored for leaks or vandalism.

**Note:** Depending on its location and substance, the operator may be required to monitor the pipeline 24 hours a day (*Pipeline Regulation*, Section 21).