


# Appendix 5 Checklist for 21-Day Temporary Surface Pipelines for Well Testing Purposes

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	<b>Checklist for 21-Day Temporary Surface Pipelines for Well Testing Purposes</b>
Company Name _____ Contact Name _____ Title _____ Phone No. _____ Signature _____ Purpose _____ Location: From _____ To _____ Connected to Licence Number: _____ Line Number: _____ Start Date _____ Expiry Date (21 days includes dismantling) _____ Pipe Specifications _____ OD _____ Wall Thickness _____ Length _____ MOP _____ Stress Level _____ Substance _____ H <sub>2</sub> S Content _____ ERCB Field Centre _____ Inspector _____ Approval Date _____	
<p><b>The following is to be completed by the company contact and approved by the ERCB inspector. (See reverse for explanations.)</b></p> <ul style="list-style-type: none"> <li>• If any question is answered "No," the company must submit an explanation to the ERCB Pipeline Section, Compliance and Operations Branch, Operations Group for review before approval will be given.</li> <li>• For the purpose of this checklist, sour service is defined as in <i>CSA Z662</i>, Clause 16.</li> <li>• The most common purpose for a temporary surface pipeline is to conduct well testing through pipeline to a production facility to reduce flaring. Other service/operations requests may be approved on an individual basis at the ERCB inspector's discretion.</li> <li>• Any proposal involving sour service specifications must be reviewed and approved by the Pipeline Section Compliance and Operations Branch, Operations Group.</li> </ul>	
	Yes      No      NA
1. <b>Public Consultation:</b> Landowner or occupant consent has been obtained.	_____      _____      _____
2. <b>Material Requirements</b> <i>New Material</i>	
2.1. Pipe, fittings, flanges, and valves will comply with the material requirements of the current edition 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.	_____      _____
3. <b>Design / Construction / Operations</b>	
3.1. Pipeline will comply with the requirements of the Pipeline Regulation, Section 21.	_____      _____
3.2. Pipeline will comply with the design requirements of the current edition 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 maximum operating pressure (MOP) will be compatible with that of other connecting pipelines.	_____      _____
3.5. Corrosion mitigation procedures will be implemented.	_____      _____      _____
3.6. Hydrogen sulphide (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.	_____      _____      _____

## Page 2 Checklist for 21-Day Temporary Surface Pipelines for Well Testing Purposes—User Notes

Temporary surface pipeline may only be used for maximum 21 days

### 1. Public Consultation

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

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

### 2. Material Requirements

New Material

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

**No** means that all of the above applicable requirements have not 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. 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 as outlined in CSA Z662, Clause 5.7: Reuse of Materials, have been met.

**No** means that all of the above applicable requirements have not 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 as outlined in the Pipeline Regulation, Section 21, have been met.

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

**Note:**

- The operator must ensure that the pipeline has adequate flexibility to withstand expansion or contraction movement due to changes in ambient or production temperatures.
- The operator 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 as outlined in CSA Z662, Clauses 6: Installation, 7: Joining, and 8: Pressure Testing, have been met.

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

**Note:**

- Welding of API, 5CT (J55 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 16.6.8: Mandatory Nondestructive Inspection.)
- For sweet service pipelines, all butt welds within the limits of a water crossing, 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 8.10.)
- Pressure recorders including recording charts must be used to accurately record the pressures during the test. (CSA Z662, Clause 8.16.2.)

**3.4. Yes** means that the proposed pipeline 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 controlled during the temporary operating period.

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

**N/A** means that the corrosion control procedures are not required because the pipeline is noncorrodible.

**3.6. Yes** means that the proposed pipeline 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 all precautions have been taken to ensure the pipeline will be monitored for leaks regularly and will not be damaged by vandalism.

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

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