



Pipeline Inspection Checklist

Oilix Energy Pty. Ltd. / 25 May 2023 / Dwayne Allison

Complete

Score	80.95%	Flagged items	9	Actions	5
Operator	Oilix Energy Pty. Ltd.				
Location	Indiana, USA (40.5512165, -85.60236429999999)				
Inspector	Dwayne Allison				
Conducted on	25.05.2023 19:00 PST				

Flagged items & Actions

9 flagged, 5 actions

Flagged items

9 flagged, 5 actions

Pipeline Inspection Checklist / Procedures

Is there a program in effect to address corrosion problems on service lines?

No

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:25 PST | Created by SafetyCulture Staff

Implement corrosion risk management program using SafetyCulture.

Pipeline Inspection Checklist / Procedures

Do we have procedures established for examining exposed cast iron pipe for evidence of graphitization?

No

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:27 PST | Created by SafetyCulture Staff

Develop SOP for examining exposed cast iron pipes.

Pipeline Inspection Checklist / Procedures

Do we have procedures established for remedial measures on cast iron pipe if graphitization is discovered?

No

Pipeline Inspection Checklist / Corrosion Control

Is external corrosion requiring remedial action found?

Yes



Photo 4

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:28 PST | Created by SafetyCulture Staff

Re-apply anti-corrosion coating on external pipe, ASAP!

Pipeline Inspection Checklist / Corrosion Control

Is the pipeline investigated circumferentially and longitudinally beyond the exposed portion to determine whether additional corrosion requiring remedial action exists?

Yes

Fixed it.



Photo 5



Photo 6

Pipeline Inspection Checklist / Coating

Does the coating on steel pipe have sufficient adhesion to resist underfilm migration of moisture?

No

Suitable for monitoring, apply coating on the next reassessment.

Pipeline Inspection Checklist / Test Stations

Are each bared test lead wire and bared metallic area (at point of connection) coated with an electrically insulating material compatible with the pipe coating and insulation on the wire?

No

Scheduled action required.

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:30 PST | Created by SafetyCulture Staff

Apply coating on the next pipeline inspection.

Pipeline Inspection Checklist / Remedial Measures

Is each segment of cast iron or ductile iron pipe on which general graphitization is found to a degree where a fracture or any leakage might result, replaced?

No

Pipeline Inspection Checklist / Monitoring

Do we check for the proper performance of each reverse current switch, diode, and interference bond whose failure would jeopardize structure protection?

No

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:30 PST | Created by SafetyCulture Staff

Include performance checks.

Other actions

0 actions

Pipeline Inspection Checklist

9 flagged, 5 actions, 80.95%

Procedures

3 flagged, 2 actions, 66.67%

Are corrosion control procedures established?

Yes

Is there a program in effect to address corrosion problems on service lines?

No

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:25 PST | Created by SafetyCulture Staff

Implement corrosion risk management program using SafetyCulture.

Are there procedures for design?

Yes

Looks pretty good to me.



Photo 1



Photo 2

Are there procedures for installation?

Yes

Are there procedures for operation?

Yes

Are there procedures for maintenance?

Yes

Do we have procedures established for examining exposed cast iron pipe for evidence of graphitization?

No

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:27 PST | Created by SafetyCulture Staff

Develop SOP for examining exposed cast iron pipes.

Do we have procedures established for remedial measures on cast iron pipe if graphitization is discovered?

No

Are these procedures under the responsibility of a qualified person?

Yes

Corrosion Control

2 flagged, 1 action, 83.33%

Type of Pipeline

Bare Copper



Photo 3

Is the pipeline cathodically protected if a corrosive environment exists?

Yes

Are buried pipelines electrically isolated from other underground structures?

N/A

Are buried segments externally coated & cathodically protected?

N/A

Is protection provided to the pipelines against damage due to fault currents?

Yes

When we have knowledge that any pipeline is exposed, is the exposed pipe examined for evidence of corrosion or coating deterioration?

Yes

Is external corrosion requiring remedial action found?

Yes



Photo 4

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:28 PST | Created by SafetyCulture Staff

Re-apply anti-corrosion coating on external pipe, ASAP!

Is the pipeline investigated circumferentially and longitudinally beyond the exposed portion to determine whether additional corrosion requiring remedial action exists?

Yes

Fixed it.



Photo 5



Photo 6

Atmospheric Corrosion Control

100%

Are insulating devices prohibited in areas where a

Yes

combustible atmosphere is anticipated unless precautions are made to prevent arcing?

Have above ground facilities been cleaned and coated?	Yes
Is the coating material suitable for the prevention of atmospheric corrosion?	Yes
Do we inspect piping exposed to the atmosphere?	Yes
Do we give particular attention to the pipe at soil-to-air interfaces, under thermal insulation, under disbanded coating, at pipe supports, at deck penetrations, and in spans over water?	Yes
If atmospheric corrosion is found, does the operator provide protection against the corrosion?	Yes

Coating

1 flagged, 85.71%

Is the coating on steel pipe applied on a properly prepared surface?	Yes
Does the coating on steel pipe have sufficient adhesion to resist underfilm migration of moisture?	No
Suitable for monitoring, apply coating on the next reassessment.	
Is the coating on steel pipe sufficiently ductile to resist cracking?	Yes
Does the coating on steel pipe have sufficient strength to resist damage due to handling and soil stress?	Yes
Is the coating on steel pipe compatible with supplemental cathodic protection?	Yes
Is the external coating electrically insulating?	No
Is the external coating inspected prior to lowering the pipe into the ditch and is any damage repaired?	N/A
Is external protective coating protected from damage resulting from adverse ditch conditions or damage from supporting blocks?	Yes

Cathodic Protection

100%

Is the amount of cathodic protection controlled to prevent damage to the protective coating or the pipe?	Yes
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Has each pipeline that is cathodically protected been tested?

Yes

Has each cathodic protection rectifier been inspected?

Yes

Test Stations

1 flagged, 1 action, 75%

Are there sufficient test stations or test points?

Yes

Are test leads mechanically secure to the pipe and electrically conductive?

Yes

Are test leads attached to minimize stress concentration on the pipe?

Yes

Are each bared test lead wire and bared metallic area (at point of connection) coated with an electrically insulating material compatible with the pipe coating and insulation on the wire?

No

Scheduled action required.

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:30 PST | Created by SafetyCulture Staff

Apply coating on the next pipeline inspection.

Remedial Measures

1 flagged, 66.67%

For each segment of transmission line with localized pitting to a degree where leakage might result, is the section of pipeline replaced, repaired, or have the operating pressure reduced?

Yes

For distribution lines with a remaining wall thickness less than 30 percent of the nominal wall thickness, do we replace or repair the pipe?

N/A

For distribution lines, do we replace or repair pipe with localized corrosion pitting?

N/A

Is each segment of cast iron or ductile iron pipe on which general graphitization is found to a degree where a fracture or any leakage might result, replaced?

No

Is each segment of cast iron or ductile iron pipe on which localized graphitization is found to a degree where any leakage might result, replaced or repaired, or sealed by internal sealing methods?

Yes

Monitoring

1 flagged, 1 action, 75%

Do we check for the proper performance of each reverse

No

current switch, diode, and interference bond whose failure would jeopardize structure protection?

To Do | Assignee SafetyCulture Staff | Priority Low | Due 01.06.2023 20:30 PST | Created by SafetyCulture Staff

Include performance checks.

Do we check for proper performance of other interference bonds?

Yes

Is prompt remedial action taken to correct any deficiencies indicated by the monitoring?

Yes

Are casing potentials monitored to detect the presence of shorts?

N/A

Do we investigate & take appropriate action when indications of casing shorts are found?

N/A

Do we monitor the system for stray currents and take appropriate steps to minimize detrimental effects?

Yes

Sign off

Additional Observations

Great work mitigating corrosion for immediate action required items.

Inspector

Inspector 1

Inspector Name & Signature



Dwayne Allison
25.05.2023 20:31 PST

Inspector 2

Inspector Name & Signature



Cris Smith
25.05.2023 20:31 PST

Inspector 3

Inspector Name & Signature



Adelaide Paige
25.05.2023 20:31 PST

Media summary



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6