

APGA POG Incident Database - Version 2 - General Information & Event Entry PDF's


Background: Driven by poorly controlled data in the existing database making analysis difficult and inconclusive, the POG Incident Database Sub Committee undertook a review of the entry fields. Following on from the review, the POG Incident Database Manager undertook a data cleanse of the existing data, review of the updated system in conjunction with Mipela and development of event entry PDF's. Near Miss event entry form was updated in April 20 following review and reduction of required fields.

General Information: The updated Incident Database system requires Mipela Info Connect version 5.1 and a modern browser¹. This version has more drop-down lists², has many more mandatory fields³, more controlled fields and guidance information⁴. It is therefore recommended to select the relevant event entry PDF's from the attached series, print it and fill out manually before starting to enter the event^{5,6} details in the system.

Getting started: Open the pipeline event entry log-in page from either of the following links:

- Via APGA Members section under POG link <https://www.apga.org.au/members-only/>
- Via Mipela X-Info link <https://apgapog.x-info.com.au>

Enter your Username and Password and hit Login. Contact APGA's Peter Heffernan if you need further assistance.



Pipeline Operators Group

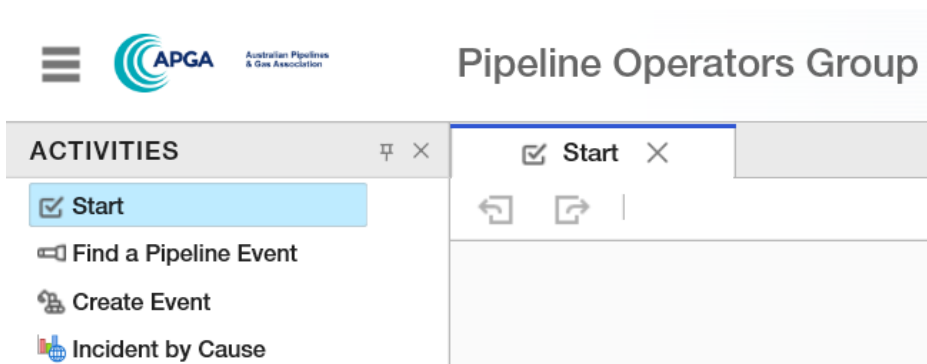
Username

Password

Reset Password

Login

Select "Create Event"



Pipeline Operators Group

ACTIVITIES

- Start
- Find a Pipeline Event
- Create Event
- Incident by Cause

¹ Chrome, Microsoft Edge, Firefox and Safari and is also compatible with Internet Explorer IE 11 but may be a little slower.

² Click on arrow on the right-hand side of the entry box.

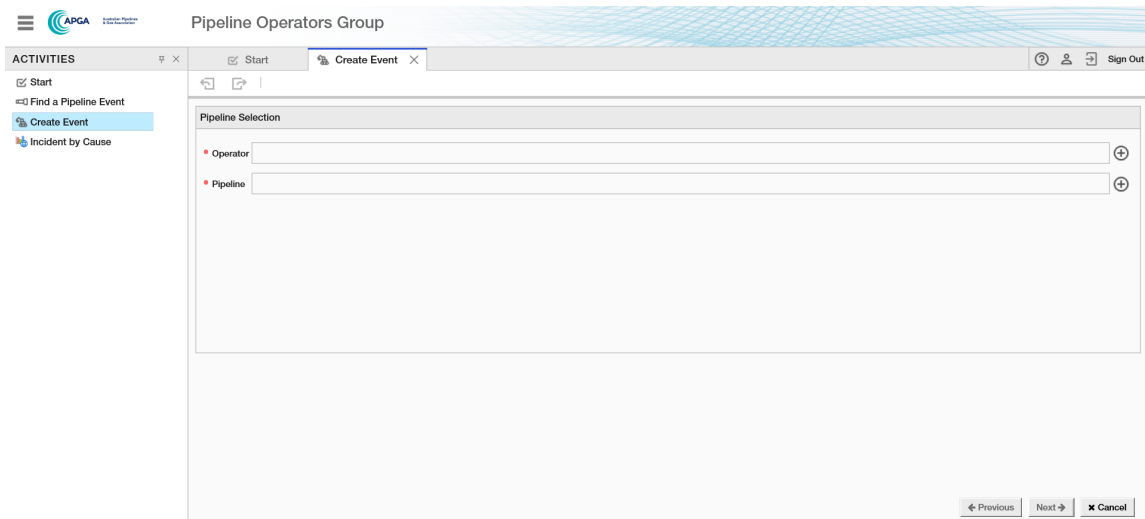
³ Identified by a red dot on the left-hand side of the entry box which changes to a yellow dot when entry has been made.

⁴ Hover the mouse over the entry box and a guidance note will appear.

⁵ Previously referred to as "incident".

⁶ The "Next" button at the bottom of the page will change from grey to black once all mandatory fields are filled.

Using the drop-down lists, select⁷ “Operator” and “Pipeline” and then hit “Next”.



Explanatory Notes: Click on the box to reveal the following message – this is repeated on each page.

Explanatory Notes

This database will be used to record all near misses and incidents of pipelines designed and constructed in accordance with the scope of AS2885.1 (and superseded Standards) and operated and maintained in accordance with AS2885.3.

A near miss is a non-authorized third party activity which does not damage the pipeline including:

1. AS2885.3 Clause 7.5.3(b) – Land disturbance activities (deeper than 300mm, such as deep ripping and the installation of drainage systems on the pipeline easement, or where no easement exists, a minimum of 3 metres (but preferably 6 metres) each side of the pipeline. This would include excavation, auguring and boring activities.
2. Seismic and use of explosives in the vicinity of the pipeline. See AS2885.3 (Clauses 7.5.3(c) and 7.5.8.

An incident is:

1. Any damage to the coating or pipe caused by mechanical equipment or any other means.
2. Any defect which causes the MAOP to be de-rated, where gas leaks (not including minor leaks at flanges), where mechanical reinforcement (e.g. reinforcing sleeves or dock spring etc.) is required to repair the defect OR where a section of pipe is cut out and replaced.

List of available Event Entry PDF's:

- Near Miss - External Interference (updated Apr20)
- Incident - External Interference
- Incident - Corrosion – External
- Incident - Corrosion – Internal
- Incident - Corrosion – SCC
- Incident - Erosion or Earth Movement
- Incident – Lightning
- Incident - Construction Defect
- Incident - Material Defect
- Incident - Other

⁷ Either select and hit “Ok” or double click.

Flow Chart #1: Data common for all events

ACTIVITIES

- Start
- Find a Pipeline Event
- Create Event**
- Incident by Cause

Pipeline Operators Group

Start | Create Event

Explanatory Notes

Description

Event ID
2047

Internal Reference Number

• Event Category

• Date of discovery

• Time of discovery

• Date of Event Known?

• Event Description

Location Details

KP (km)

• Location

Country

Local Government Area

Suburb

• Latitude

• Longitude

Map

Drop down list revealing additional field:

| | |
|------------------------|------------------------|
| • Date of Event Known? | • Date of Event Known? |
| Known | Known |
| Unknown | • Date of Event |

ACTIVITIES Start Create Event

- Start
- Find a Pipeline Event
- Create Event
- Incident by Cause

Explanatory Notes

Pipe Details

- Pipe Diameter (mm)
- Pipe Wall Thickness (mm)
- Steel Grade
- Steel Strength
- Maximum allowable operating pressure (kPa)
- Depth of Cover (mm)
- Pipeline Age (years)
- Primary Location Class
- Secondary Location Class
- Operating Pressure at Time of Event (kPa)
- Operating Temperature at Time of Event (C)
- Hydrostatic Test Pressure (kPa)
- Date of latest Hydrostatic Test Pressure Known?
- Fracture Toughness Known?
- Toughness Test Temperature (C)

Drop down lists for this page:

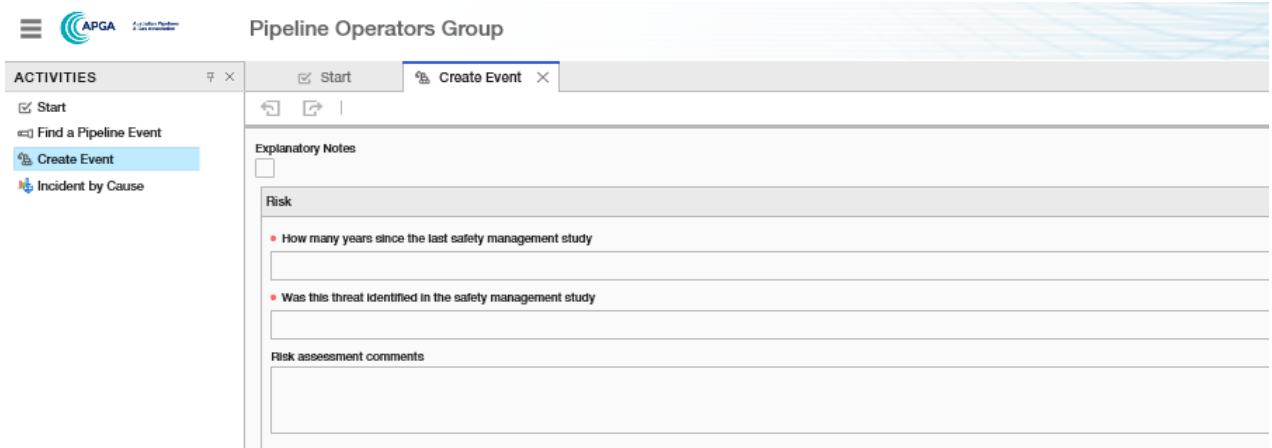
| | | | | |
|--------------------------------------|--------------------------------------|-----------------------------------------|-------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Steel Grade | <input type="checkbox"/> Steel Grade | | | <input type="checkbox"/> Secondary Location Class |
| API 5L Grade A | API 5L Grade X60 | | | S |
| API 5L Grade B | API 5L Grade X65 | | | |
| API 5L Grade X42 | API 5L Grade X70 | | <input type="checkbox"/> Primary Location Class | CIC |
| API 5L Grade X46 | API 5L Grade X80 | | R1 | I |
| API 5L Grade X52 | ASTM A53 Grade B | <input type="checkbox"/> Steel Strength | R2 | HI |
| API 5L Grade X56 | SAA Grade A33 Class D | PSL1 | T1 | W |
| API 5L Grade X59 | Other | PSL2 | T2 | N/A |
| | | Unknown | | |

Drop down lists revealing additional fields:

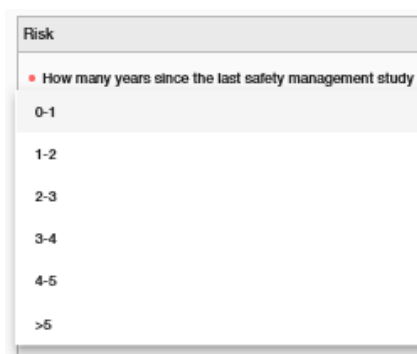
| | |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Date of latest Hydrostatic Test Pressure Known? | <ul style="list-style-type: none">• Date of latest Hydrostatic Test Pressure Known? |
| Known | Known |
| Unknown | |

| | |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| <ul style="list-style-type: none">• Fracture Toughness Known? | <ul style="list-style-type: none">• Fracture Toughness Known? |
| Known | Known |
| Unknown | |

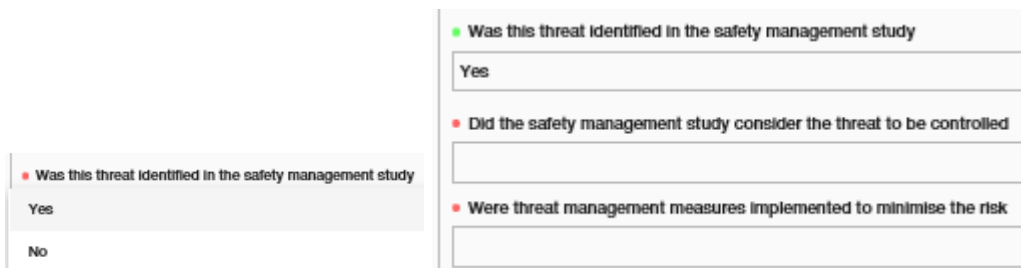
| | |
|-------------------------------------------------------------------------------|--|
| <ul style="list-style-type: none">• Fracture Toughness (J Cv10) | |
| | |



Drop down lists for this page:



Drop down lists revealing additional fields:



ACTIVITIES ⌵ ×

- Start
- Find a Pipeline Event
- Create Event**
- Incident by Cause

Start × Create Event ×

← → |

Explanatory Notes

Cause Details

- What was the cause of the event

Cause Details

- What was the cause of the event

External Interference

Corrosion

Erosion or Earth Movement

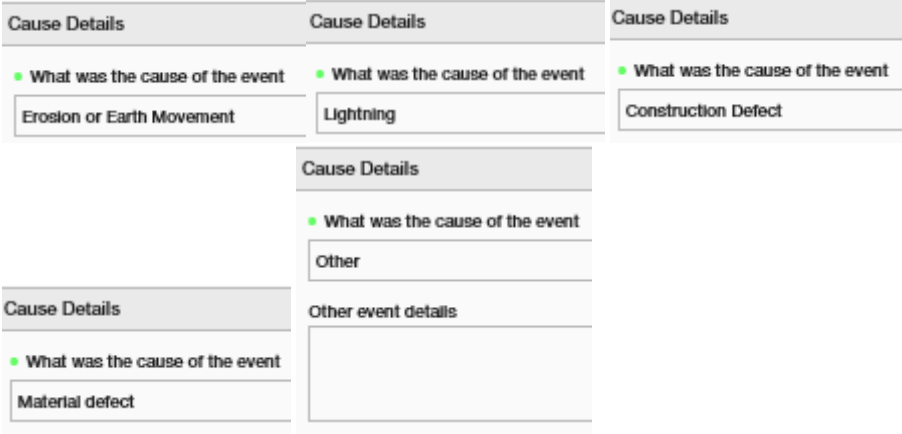
Lightning

Construction Defect

Material defect

Other

Flow Chart #2: Data common for all events with Cause “Erosion or Earth Movement”, “Lightning”, “Construction Defect”, “Material Defect” or “Other”



Flow Chart #3: Data common for all events with Cause “Corrosion”

The screenshot displays the 'Pipeline Operators Group' software interface. The top navigation bar includes the APGA logo and the title 'Pipeline Operators Group'. Below this, there are two tabs: 'Start' and 'Create Event'. The 'Create Event' tab is active, showing a sidebar with navigation options: 'Start', 'Find a Pipeline Event', 'Create Event' (highlighted), and 'Incident by Cause'. The main content area is titled 'Explanatory Notes' and contains a 'Cause Details' section with a single question: 'What was the cause of the event', with the answer 'Corrosion' entered in the text field.

Below the main interface, a detailed view of the 'Corrosion Details' form is shown. This form includes the following fields:

- Type of corrosion:** A dropdown menu with options: External, Internal, and SCC.
- Is the pipeline piggable?:** A text input field.
- Linepipe coating type:** A text input field.
- Linepipe coating condition:** A text input field.
- Further comment on linepipe coating:** A text input field.
- Joint or repair coating type:** A text input field.
- Joint or repair coating condition:** A text input field.
- Further comment on joint or repair coating:** A text input field.
- Cathodic protection system:** A text input field.
- Pipe-soil potential (mV to Cu/CuSO4):** A text input field.
- Other factors affecting external corrosion:** A text input field.

| | | | |
|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| | | <ul style="list-style-type: none"> How long since last in-line inspection (years) | |
| | | 0-1 | |
| | | 1-2 | |
| | | 2-3 | |
| | <ul style="list-style-type: none"> Is the pipeline piggable? | 3-4 | |
| <ul style="list-style-type: none"> Is the pipeline piggable? | Yes | 4-5 | 7-8 |
| Yes | <ul style="list-style-type: none"> How long since last in-line inspection (years) | 5-6 | 8-9 |
| No | | 6-7 | >10 |
| <ul style="list-style-type: none"> Linepipe coating type | | | |
| Extruded HDPE | | | |
| FBE (single layer) | | | |
| FBE (dual layer) | | | |
| Trilaminate | | | |
| Enamel (coal tar or bituminous) | | <ul style="list-style-type: none"> "Factory" or "over the ditch" linepipe coating | <ul style="list-style-type: none"> Linepipe coating condition |
| Tape wrap | <ul style="list-style-type: none"> Linepipe coating type | Factory applied | Bonded |
| Liquid applied coating | Other | Over the ditch application | Disbonded but protected |
| Other | | | Disbonded but shielded |
| N/A | | | |
| <ul style="list-style-type: none"> Joint or repair coating type | | | |
| Liquid-applied coating | | | |
| Heat shrink sleeve | | | <ul style="list-style-type: none"> Cathodic protection system |
| Tape | <ul style="list-style-type: none"> Joint or repair coating type | <ul style="list-style-type: none"> Joint or repair coating condition | Impressed current |
| Same as linepipe | Other | Bonded | Galvanic anode |
| N/A | Joint or repair coating type Other | Disbonded but protected | Combined |
| Other | | Disbonded and shielded | None |

INTERNAL

• Type of corrosion

• Is the pipeline piggable?

• Internal pipeline coating type

• Fluid quality

• Corrosion inhibitor used

Other factors that may have contributed to internal corrosion

| | | | |
|-----------------------------|--------------------------------------------------|--------------------------------------------------|-----|
| | | • How long since last in-line inspection (years) | |
| | | 0-1 | |
| | | 1-2 | |
| | | 2-3 | |
| | | 3-4 | |
| • Is the pipeline piggable? | Yes | 4-5 | 7-8 |
| Yes | • How long since last in-line inspection (years) | 5-6 | 8-9 |
| No | <input type="text"/> | 6-7 | >10 |

• Internal pipeline coating type

Liquid high build epoxy

Liquid thin film epoxy

Special anti-corrosive painting

Other

None

• Internal pipeline coating type

Internal pipeline coating type Other

• Corrosion inhibitor used

No

SCC

- Type of corrosion

SCC

- Is the pipeline piggable?

- Linepipe coating type

- Linepipe coating condition

Further comment on linepipe coating

- Joint or repair coating type

- Joint or repair coating condition

Further comment on joint or repair coating

- Cathodic protection system

Pipe-soil potential (mV to Cu/CuSO₄)

Other factors affecting external corrosion

Flow Chart #4: Data common for all events with Cause “External Interference”

The screenshot shows a web application interface for 'Pipeline Operators Group'. The main content area is titled 'Create Event'. It contains several sections:

- Explanatory Notes:** A text input field.
- Cause Details:** A section with a green bullet point 'What was the cause of the event' and a text input field containing 'External Interference'.
- External interference details:** A section with a red bullet point 'Who caused the event' and a text input field containing 'Govt shire or utility'.
- Other information on event:** A section with a red bullet point 'Type of excavation equipment' and a text input field containing 'Govt shire or utility contractor'.

The flow chart diagram illustrates the data flow for 'External interference details'. It starts with a list of categories for 'Who caused the event':

- Govt shire or utility
- Govt shire or utility contractor
- Property owner
- Property owner's contractor
- Pipeline operator
- Pipeline operator's contractor
- Other third party

 From these categories, the flow chart branches into three main paths:

- Path 1:** 'Govt shire or utility' leads to 'Who caused the event' (Govt shire or utility) and 'How long since last contact with those who caused the event known?'.
- Path 2:** 'Property owner' leads to 'Who caused the event' (Property owner) and 'How long since last contact with those who caused the event known?'.
- Path 3:** 'Property owner's contractor' leads to 'Who caused the event' (Property owner's contractor) and 'How long since last contact with those who caused the event known?'.

- Type of excavation equipment

Hand tools

Backhoe

Excavator

Auger (vertical)

Horizontal bore or HDD

Ripper or cable plough

Bulldozer grader or scraper

Agricultural plough

Hydro Vacuum Excavation

Chain Trencher

Other

Unknown

Needs box for "Other"

- Type of excavation equipment

Excavator

- Excavator size (T)

- Bucket / Tooth Type

- Bucket / Tooth Type

Mud Bucket

General Purpose tooth

Tiger tooth

Penetrating tool

Unknown

Other

- Bucket / Tooth Type

Other

Bucket / Tooth Type Other

External Interference Protection

- Nearest Marker Post (m)

- Patrol Frequency (days)

- Marker Tape

- Protective Slab or Encasement

- Fenced Off

- Crash Barrier

- Land Ownership

- How long ago was the last contact with the landowner / land occupier (years)?

- One Call Service / DBYD Used

- Did the event result from a new land development?

- Protective Slab or Encasement

Concrete slab

Polymer slab

- Marker Tape

Concrete encasement

Other

Unknown

None

- Land Ownership

Crown / Public Open Space

Government (restricted access)

Freehold (Private)

Road reserve (crossing)

Road reserve (parallel)

Other

- Fenced Off

Yes

No

- Crash Barrier

Yes

No

| | | |
|--------------------------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------------------------|
| <ul style="list-style-type: none"> Land Ownership | <ul style="list-style-type: none"> Land Ownership | <ul style="list-style-type: none"> Land Ownership |
| Road reserve (crossing) | Road reserve (parallel) | Position in road |
| <ul style="list-style-type: none"> Position in road | <ul style="list-style-type: none"> Position in road | Under road surface |
| | | Elsewhere in road reserve |
| | | Other |
| | | Land Ownership Other |

How long ago was the last contact with the landowner / land occupier (years)?

- 0-1
- 1-2
- 2-3
- 3-4
- 4-5
- >5

| | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> One Call Service / DBYD Used | <ul style="list-style-type: none"> One Call Service / DBYD Used |
| Yes | Yes |
| <ul style="list-style-type: none"> Did the pipeline operator respond to the one-call / DBYD enquiry? | <ul style="list-style-type: none"> Did the pipeline operator respond to the one-call / DBYD enquiry? |
| Yes | |
| <ul style="list-style-type: none"> Was there on-site inspection by the pipeline operator in response to the one-call / DBYD enquiry? | <ul style="list-style-type: none"> Was there on-site inspection by the pipeline operator in response to the one-call / DBYD enquiry? |
| No | |

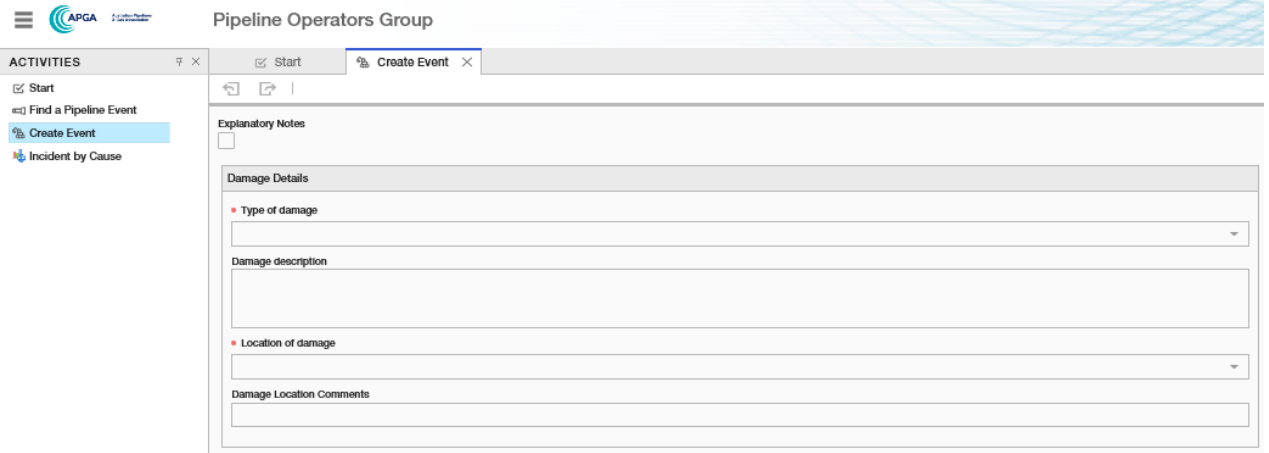
Did the pipeline operator respond to the one-call / DBYD enquiry?

- Yes
- No

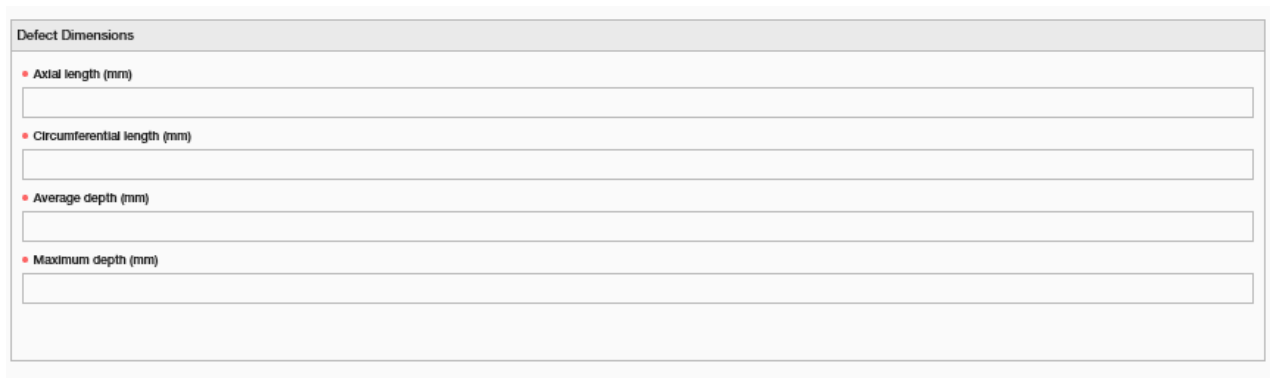
Was there on-site inspection by the pipeline operator in response to the one-call / DBYD enquiry?

- Yes
- No

| | |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Did the event result from a new land development? | <ul style="list-style-type: none"> Did the event result from a new land development? |
| Yes | Yes |
| <ul style="list-style-type: none"> Did the event result from a new land development? | <ul style="list-style-type: none"> Was the development referred to the pipeline operator by the planning authority? |
| Yes | Yes |
| No | No |



Drop down lists revealing additional fields:



| Defect Position | |
|------------------------------------|----------------------|
| • Circumferential Position (Start) | <input type="text"/> |
| • Circumferential Position (End) | <input type="text"/> |
| • Distance from seam weld known? | <input type="text"/> |
| • Distance from girth weld known? | <input type="text"/> |

Drop down lists for this page:

| • Circumferential Position (Start) | • Circumferential Position (End) |
|------------------------------------|----------------------------------|
| 12:00 | 12:00 |
| 12:30 | 12:30 |
| 01:00 | 01:00 |
| 01:30 | 01:30 |
| 02:00 | 02:00 |
| 02:30 | 02:30 |
| 03:00 | 03:00 |

Drop down lists revealing additional fields:

| • Distance from seam weld known? | • Distance from seam weld known? |
|----------------------------------|----------------------------------|
| Known | Known |
| Unknown | Distance from seam weld (mm) |
| N/A | <input type="text"/> |

| • Distance from girth weld known? | • Distance from girth weld known? |
|-----------------------------------|-----------------------------------|
| Known | Known |
| Unknown | Distance from girth weld (mm) |
| | <input type="text"/> |

| Critical Defect Length for rupture | |
|---------------------------------------------|---------------------------------------------|
| • Critical defect length for rupture known? | <input type="text"/> |
| • Critical defect length for rupture known? | • Critical defect length for rupture known? |
| Known | Known |
| Unknown | • Critical defect length (mm) |
| | <input type="text"/> |

ACTIVITIES Start Create Event

Start
Find a Pipeline Event
Create Event
Incident by Cause

Explanatory Notes

Repair Details

Type of Repair

Repair Description

Repair Details

Type of Repair

Cut out and replace

Welded sleeve

Mechanical clamp

Composite Fibre Reinforcement

Dress and re-coat

Re-coat

Other

Type of Repair

Other

Repair Type Other

ACTIVITIES Start Create Event

Start Find a Pipeline Event Create Event Incident by Cause

Explanatory Notes

Fatalities

Were there any fatalities?

Were there any fatalities?

Yes

Fatalities

Were there any fatalities?

Yes

No

Number of Fatalities

Distance of fatalities from event known?

Known

Unknown

Distance of farthest fatality from event (m)

Injuries

Were there any injuries?

Were there any injuries?

Yes

Injuries

Were there any injuries?

Yes

No

Number of people injured

Distance of injuries from event known?

Known

Unknown

Distance of injuries from event known?

Known

Distance of farthest injury from event (m)

Property Damage

Was there any property damage?

Was there any property damage?

Yes

Property Damage

Was there any property damage?

Yes

No

Property damage (\$)

Is the distance of property damage from event known?

Known

Unknown

Is the distance of property damage from event known?

Known

Distance of property damage farthest from event (m)

Supply Interruption

Was there a period of failure to supply?

Supply Interruption

Was there a period of failure to supply?

Yes

No

Was there a period of failure to supply?

Yes

No

Period of failure to supply (hours)

Was there a period of reduced supply?

Yes

No

Was there a period of reduced supply?

Yes

No

Period of reduced supply (hours)

| | |
|------------------------------------------------------------------------------------|--|
| Loss of Containment | |
| <ul style="list-style-type: none"> Was there a loss of containment? | |
| <input type="text"/> | |

| | | | |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------|
| <ul style="list-style-type: none"> Was there a loss of containment? | | <ul style="list-style-type: none"> Was there a loss of containment? | |
| <ul style="list-style-type: none"> Was there a loss of containment? | <ul style="list-style-type: none"> Yes | <ul style="list-style-type: none"> Type of Containment Loss | <ul style="list-style-type: none"> Gas |
| <ul style="list-style-type: none"> Yes | <ul style="list-style-type: none"> Type of Containment Loss | <ul style="list-style-type: none"> Gas | <ul style="list-style-type: none"> Gas |
| <ul style="list-style-type: none"> No | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> Liquid | <ul style="list-style-type: none"> Liquid |

| | | | |
|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Type of Containment Loss | | <ul style="list-style-type: none"> Volume of gas lost known? | |
| <ul style="list-style-type: none"> Gas | <ul style="list-style-type: none"> Volume of gas lost known? | <ul style="list-style-type: none"> Known | <ul style="list-style-type: none"> Volume of gas lost (*000 Sm3) |
| <ul style="list-style-type: none"> Volume of gas lost known? | <ul style="list-style-type: none"> Known | <ul style="list-style-type: none"> Volume of gas lost (*000 Sm3) | <ul style="list-style-type: none"> |
| <ul style="list-style-type: none"> | <ul style="list-style-type: none"> Unknown | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> |

| | | | |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> Type of Containment Loss | | <ul style="list-style-type: none"> Volume of liquid spilled known? | |
| <ul style="list-style-type: none"> Liquid | <ul style="list-style-type: none"> Volume of liquid spilled known? | <ul style="list-style-type: none"> Known | <ul style="list-style-type: none"> Volume of liquid recovered known? |
| <ul style="list-style-type: none"> Volume of liquid spilled known? | <ul style="list-style-type: none"> Known | <ul style="list-style-type: none"> Volume of liquid spilled (L) | <ul style="list-style-type: none"> Known |
| <ul style="list-style-type: none"> Volume of liquid recovered known? | <ul style="list-style-type: none"> Unknown | <ul style="list-style-type: none"> Volume of liquid spilled (L) | <ul style="list-style-type: none"> Unknown |
| <ul style="list-style-type: none"> Volume of liquid recovered known? | <ul style="list-style-type: none"> Known | <ul style="list-style-type: none"> Volume of liquid recovered (L) | <ul style="list-style-type: none"> |
| <ul style="list-style-type: none"> Volume of liquid recovered (L) | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> |

| | |
|-----------------------------------------------------------------------------------|--|
| Environmental Damage | |
| <ul style="list-style-type: none"> Was there Environmental Damage? | |
| <input type="text"/> | |

| | | | |
|-----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------------------------------|----------------------------------------------------|
| <ul style="list-style-type: none"> Was there Environmental Damage? | | <ul style="list-style-type: none"> Was there Environmental Damage? | |
| <ul style="list-style-type: none"> Was there Environmental Damage? | <ul style="list-style-type: none"> Yes | <ul style="list-style-type: none"> Environmental Damage | <ul style="list-style-type: none"> |
| <ul style="list-style-type: none"> Yes | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> |
| <ul style="list-style-type: none"> No | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> | <ul style="list-style-type: none"> |