APGA POG Incident Database - General Information & Event Data Preparation PDF's

Background: Driven by poorly controlled data in the existing database making analysis difficult and inconclusive, the POG Incident Database Sub Committee undertook two reviews of the data entry fields.

General Information: The updated Incident Database system requires access to the Mipela X-Info Connect version 6.6 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 data preparation PDF's from the attached series, print it and fill out manually before starting to enter the event^{5,6} details in the system.

List of Event Data Preparation PDF's: available in the APGA website POG Incident Database

- 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

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

- Via APGA website Members section POG incident Database
- Via Mipela X-Info link <u>https://apgapog.x-info.com.au</u>

Enter your Username and Password and hit Login. Contact APGA's Gayle Burns (<u>GBurns@apga.org.au</u>) if you need further assistance accessing the database.

CAPGA	Australian Pipelines & Gas Association	
Pipeline Operators G	roup	~
Username		
Password		۲
Reset Password		Login

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 form grey to black once all mandatory fields are filled.

Select "Create Event"

Australian Playfines & Gas Association		Pipeline Operato	rs Group
ACTIVITIES	Ψ×	⊠ Start X	
✓ Start		5	
📼 Find a Pipeline Event			
الله Create Event			
http://www.cause 🗠 🏎			

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

E CAPGA television	Pipeline Opera	tors Group				
ACTIVITIES # ×	⊠ Start	Screate Event ×			② ≗ ∋ s	ign Out
✓ Start	5 6 1					
Find a Pipeline Event						_
1 Create Event	Pipeline Selection					
Notice the second secon	Operator					Ð
	• Pipeline					Ð
				+ Previous	Next 🏓 🗙 Can	scel

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

Crystanatory Notes

 The database will be used to record all near misses and indexes of pipelines designed and constructed in accordance with the scope of AS28551 (and supeneded Standard) and operated and maintained in accordance with AS28553.
 A near missis is non-subdivident biol gamp antihyly which dese not damage the pipeline leading:
 A near missis is non-subdivident S100-100 (disturbine accordance with the pipeline set (set preferably 6 method) ends of the pipeline. This would indude excavedor, auguing and boing activities
 Set on a use of explorees in the winning of the pipeline. Set accordance with the pipeline set accordance with the pipeline excavedor, auguing and boing activities
 Set on a use of explorees in the winning of the pipeline. This would indude excavedor, auguing and boing activities
 Set on a use of explorees in the winning of the pipeline. This would indude excavedor, auguing and boing activities
 Ange defeat this
 Ange defeat which acues the MAOP to be de-rated, where gas leaks (not induding minor leaks at flarges), where mechanical reinforcement (e.g. rei

⁷ Either select and hit "Ok" or double click.

Flow Chart #1: Data common for all events

	Pipeline Operators Group
ACTIVITIES $\forall \times$	⊠ Start 18 Create Event ×
🗹 Start	
I Find a Pipeline Event	
1 Create Event	Explanatory Notes
Note: The second	Description
	Event ID
	2047
	Infernal Deferance Number
	Event Category
	Date of discovery
	Time of discovery
	Date of Event Known?
	Event Description
	Location Datails
	KP (km)
	Location
	Country
	Local Government Area
	SUDUID
	• Longitude
	Мар

Date of Event Known?	Date of Event Known? Known
Known	 Date of Event
Unknown	

	-	Pipeline Operators Group
ACTIVITIES	\mp \times	🗹 Start 🛛 🐁 Create Event 🗡
⊠ Start		
📼 Find a Pipeline Event		
1 Create Event		Explanatory Notes
Note that by Cause		Pipe Details
		Pine Diameter (mm)
		the semicon found
		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?
		a Tauahasan Tark Tamparahun (C)
		tougnness rest remperature (C)

Drop down lists for this page:

Steel Grade	 Steel Grade 			
API 5L Grade A	API 5L Grade X60			 Secondary Location Class
API 5L Grade B	API 5L Grade X65			S
API 5L Grade X42	API 5L Grade X70		Primary Location Class	CIC
API 5L Grade X46	API 5L Grade X80	 Steel Strength 	R1	1
API 5L Grade X52	ASTM A53 Grade B	PSL1	R2	н
API 5L Grade X56	SAA Grade A33 Class D	PSL2	TI	w
API 5L Grade X59	Other	Unknown	T2	N/A

		Date of latest Hydrostatic Test Pressure Known? Known
 Date of latest Hydrostatic Tes 	t Pressure Known?	
Known		Hydrostatic Test Date
Unknown		
	Fracture Tought	nees Known?
Fracture Toughness Known?	Known	
Known	 Fracture Toughness (J Cv10) 	
Unknown		

E CAPGA subsider	Pipeline Operators Group
ACTIVITIES 7 ×	⊠ Start % Create Event ×
⊡ Start	ଶ ଜ ।
I Find a Pipeline Event	
1 Create Event	Explanatory Notes
No. Incident by Cause	Risk • How many years since the last safety management study • Was this threat identified in the safety management study • Was this threat identified in the safety management study Risk assessment comments

Drop down lists for this page:

 How many years since the last safety management stur 0-1 	
0-1	ty
1-2	
2-3	
3-4	
4-5	
>5	

	 Was this threat identified in the safety management study
	Yes
	Did the safety management study consider the threat to be controlled
Was this threat identified in the safety management study	
Yes	Were threat management measures implemented to minimise the risk
No	

E CAPGA (subsubder	Pipeline Operators Group		
$\textbf{ACTIVITIES} \qquad \forall \ \times$	🗹 Start	● Create Event ×	
✓ Start	50		
⇐:] Find a Pipeline Event	Explanatory Notes		
1 Create Event			
Notice the second secon	Cause Details		
	• What was the cause of	f 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"

Cause Details	Cause Details	Cause Details
What was the cause of the event Erosion or Earth Movement	What was the cause of the event Ughtning	What was the cause of the event Construction Defect
	Cause Details	
	What was the cause of the event Other	
Cause Details	Other event details	
What was the cause of the event Material defect		

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

		Pipeline	e Operato	ors Group
ACTIVITIES	ŦΧ	2	Start	$^{\odot}$ Create Event $ imes $
✓ Start		50		
□ Find a Pipeline Event				
1 Create Event		Explanatory	Notes	
Note that the second se				
		Cause De	tails	
		 What wa 	as the cause of t	the event
		Corrosion	n	
Corrosion Details				
 Type of corrosion 			Type of corr	rosion
			External	
Is the pipeline piggable?			Internal	
			internai	
			SCC	
Corrosion Details				
 Type of corrogion 				
External				
Is the pipeline piggable?				
Linepipe coating type				
Linepipe coating condition				
Further comment on linepipe coati	ng			
 Joint or repair conting have 				
 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/CuSC)4)			
Other factors affecting automation	melon			
other factors anecting external col	IUSION			

			 How long since last in-line 	Inspection (years)	
			0-1		
			1-2		
			2-3		
• 19	the pipeline piggable?		3-4		
Is the pipeline piggable? Ye	s		4-5		7-8
Yes H	ow long since last in-line in	spection (years)	5-6		8-9
No			6-7		>10
Extruded HDPE					
ERE (single invert					
FDC (silligie layer)					
FBE (dual layer)					
Trilaminate				 Linepipe co 	ating condition
Enamel (coal tar or bituminous))	"Factory" or "	over the ditch" linepipe coat	ing Bonded	
Tape wrap	 Linepipe coating type 	Factory applie	d	Disbonded b	ut protected
Liquid applied coating	Other	Over the ditch	application	Disbonded b	ut shielded
Other					
N/A					
 Joint or repair conting type. 					
Liquid-applied coating					
Heat shrink sloava					
near sinnik sieeve				Cathodic protecti	on system
Таре	 Joint or repair coating ty 	/pe • Join	t or repair coating condition	impressed current	
Same as linepipe	Other	Bond	ed	Galvanic anode	
N/A	Joint or repair coating type	e Other Disbo	nded but protected	Combined	
Other		Disbo	nded and shielded	None	

INTERNAL

Type of corrosion
Internal
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		
• Is tr	he pipeline piggable?	3-4		
 Is the pipeline piggable? Yes 		4-5		7-8
Yes Hov	w long since last in-line inspection (ye	ars) 5-6		8-9
No		6-7		>10
Internal pipeline coating type				
Fusion bonded epoxy				
Liquid high build epoxy				
Liquid thin film epoxy	Internal pipeline coating type			
Special anti-corrosive painting	Other	 Corrosion inhibitor used 		
Other	Internal pipeline coating type Other	Yes		
None		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"

	Pipeline Ope	erators Group		- Although
ACTIVITIES T X	⊠ Start	°≞ Create Event ×		
✓ Start	5 0			
≪l Find a Pipeline Event L Create Event	Explanatory Notes			
Note: The second	Cause Details			
	• What was the ca	use of the event		
	External interfere	nce		
	Who caused the	event		
	Other Information	on event		
	 Type of excavation 	ion equipment		
External interference	e details			
• Who caused the e	vent			
Govt shire or utility				
Gove since or during				
Govt shire or utility	contractor			
Property owner				
Property owner's c	ontractor			
Pipeline operator		Who caused the event		
Dineline energierie	contractor	Govt shire or utility		
Pipeline operator's	contractor	How long since last contact with tho	se who caused the event known?	
Other third party				-
 Who caused the ev 	vent		 Who caused the event 	
Govt shire or utility	contractor		Property owner	
 How long since las 	t contact with	h those who caused the event known?	 How long since last contact wf 	th those who caused the event known?
• Who opposed its	uant			
Who caused the ev	ent			
Property owner's co	nitacior			
 How long since las 	t contact with	n those who caused the event known?		

Type of excavation equipment Hand tools			
Backhoe			
Excavator	Agricultural plough		
Auger (vertical)	Hydro Vacuum Excavation		
Horizontal bore or HDD	Chain Trencher		
Ripper or cable plough	Other		
Buildozer grader or scraper	Unknown	Ne	eds box for "Other"
	Bucket / Tooth Type		
	Mud Bucket		
Type of excavation equipment			
	General Purpose tooth		
Excavator	Timestanth		
 Excavator size (T) 	liger tootn	Bucket / Tooth Type	
	Penetrating tool	Other	
Bucket / Tooth Type	Unknown	Bucket / Tooth Type Other	
	Other		-

External Interference F	Protection			
Nearest Marker Post	(m)			
 Patrol Frequency (day 	ys)			
 Marker Tape 				
- Marker Tape				
 Protective Slab or En 	casement			
Fenced Off				
Crash Barrier				
Land Ownership				
 How long ago was th 	e last contact with the landowner / land occupier (years)?	,		
One Call Service / DE	3YD Used			
Did the event result fi	rom a new land development?			
	Protective Slab or Encasement			Land Ownership
	Concrete slab			Crown / Public Open Space
	Dolymor olab			
	Polymen stab			Government (restricted access)
	Concrete escapement			Freehold (Drivate)
 Marker Tape 				Preenoid (Private)
Yes	Other	Fenced Off	Crash Barrier	Road reserve (crossing)
No	Linknown	Yes	Yes	
140	Sector of The			Road reserve (parallel)
Unknown	None	No	No	Other

Land Ownership	Land Ownership		Land Ownership	
Road reserve (crossing)	Road reserve (parallel)	Position in road	Other	
Position in road	 Position in road 	Under road surface	Land Ownership Other	
	-	Elsewhere in road reserve		
 How long ago was the last cont 	act with the landowner / land	occupier (years)?		
0-1				
1-2				
2-3				
3-4				
4-5				
5				
<i>,</i> ,,				
	One Call Service / DBYD	Used		
	Yes			
	Did the pipeline operator	respond to the one-call / DBYD e	enquiry?	
One Call Service / DBYD Used				
Yes	 Was there on-site inspect 	ion by the pipeline operator in re	sponse to the one-call / DB	YD enquiry?
No				
Did the pipeline operator respond	to the one-call / DBYD enqu	iry?		
Yes				
No				
 Was there on-site inspection by 	the pipeline operator in resp	onse to the one-call / DBYD enqu	uiry?	
Yes				
No				
	• Did th	e event result from a new land d	evelopment?	
	Yes			
 Did the event result from a new l 	and development?	he development referred to the	ninalina oparator by the pla	nning authority?
Yes	- was	as astrophical released to the	sponie operator by the pla	and antionty?
	105			

	Pipeline Operators Group
$\textbf{ACTIVITIES} \qquad ~ \forall ~ \times$	🖂 Start 🐁 Create Event 🗡
✓ Start	5 C I
□ Find a Pipeline Event	
1 Create Event	Explanatory votes
Notice the text of	
	Damage Details
	Type of damage
	•
	Damage description
	Location of damage
	· · · · · · · · · · · · · · · · · · ·
	Damage Location Comments

Damage Details			
 Type of damage 			
Coating Damage			
Deformation			
Gouge	• Type of damage	 Type of damage 	
Leak	Leak	Rupture	Release ignited
Rupture	Release ignited	Release ignited	Yes
Corrosion/SCC (no leak)			No
Location of damage			
Parent pipe	Location of damage		
Girth weld	Other		
Seam weld	Location of Damage Ot	her	
Other			

Defect Dimensions				
Axial length (mm)				
Circumferential length (mm)				
Average depth (mm)				
Maximum depth (mm)				

Defect Position	
Circumferential Position (Start)	
	Ŧ
Circumferential Position (End)	
	~
Distance from seam weld known?	
	*
Distance from girth weld known?	
	*

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

Distance from seam weld known? Known Unknown N/A	Distance from seam weld known? Known Distance from seam weld (mm)
 Distance from girth weld known? Known Unknown 	Distance from girth weid known? Known Distance from girth weid (mm)

Critical Defect Length for rupture				
Critical defect length for rupture known?				
		*		
	Critical defect length for rupture known?			
Critical defect length for rupture known?	Known			
Known	Critical defect length (mm)			
Unknown				

CAPGA Matulat	Pipeline Operators Group
ACTIVITIES 7 ×	⊠ Start & Create Event ×
✓ Start	ଶ ଜା
∝ Find a Pipeline Event	Evaluatas Notas
協 Create Event	
he Incident by Cause	Repair Details
	• Type of Repair
	Repair Description
Repair Details	
Type of Repair	
Cut out and replace	
out out and replace	
Welded sleeve	
Mechanical clamp	
Composite Fibre Reinford	sement
Drace and re-coat	Type of Repair
Dress and le-coat	Other
Re-coat	
	Repair Type Other
Other	

E CAPGA Statut	Pipeline Operators Group		144
ACTIVITIES 7 ×	🖂 Start 🐁 Create Event 🗡		
⊠ Start	1 2		
cc) Find a Pipeline Event	Puelos des Meter		
1 Create Event	Explanatory Notes		
Noticent by Cause	Fatalities		
	Were there any fatalities?		
	Were there any fatalities? Yes		
Fatalities	Number of Fatalities		Distance of fatalities from event known?
Were there any fatalities	1?	Distance of fatalities from event known?	Known
Yes	Distance of fatalities from event known?	Known	Distance of farthest fatality from event (m)
No		Unknown	

Inj	uries	
•	Were there any injuries?	
		*

	Were there any injuries?		
	Yes		
Injuries	Number of people injured		Distance of injuries from event known?
• Were there any injuries?		Distance of injuries from event known?	Known
Yes	Distance of injuries from event known?	Known	Distance of farthest injury from event (m)
No		Unknown	

Property Damage							
Was there any property damage?	Was there any property damage?						
			*				
	Was there any property damage?						
	Yes						
Property Damage	Property damage (\$)	Is the distance of property damage from event known?					
• Was there any property damage?			 Is the distance or property damage from event known? 				
Yes	Is the distance of property damage from event known?	Known	Known				
			Distance of property damage farthest from event (m)				
No		Unknown	1				

Supply Interruption					
• Was there a period of failure to	supply?				
					~
Supply Interruption		• Was there a period of failure to supply?	• Was there a period of failure to supply?		• Was there a period of reduced supply?
Was there a period of failure to supply?	• Was there a period of failure to supply?	Yes	No	• Was there a period of reduced supply?	Yes
Yes	Yes	 Period of failure to supply (hours) 	• Was there a period of reduced supply?	Yes	 Period of reduced supply (hours)
No	No			No	

Loss of Containment				
• Was there a loss of containment?				
	 Was there a loss of conf 	tainment?		
• Was there a loss of containment?	Yes		Type of Containment Loss	
Yes	Type of Containment Loss	8	Gas	
No			Liquid	
Type of Containment Loss	:	Volume o	f gas lost known?	
Gas	me of are lost known?	Known		
Volume of gas lost known? Know	n e or gas lost kilowit?	Volume o	f gas lost ('000 Sm3)	
Linkn	OWD			
Type of Containment Loss				
Liquid				
• Volume of liquid spilled known?			Volume of liquid spilled known?	
	 Volume of liquid spilled k 	nown?	Known	Volume of liquid recovered known?
Volume of liquid recovered known?	Known		Volume of liquid spilled (L)	Known
	Unknown			Unknown
Volume of liquid recovered known?				
Known				
Volume of liquid recovered (L)				
Environmental Damage				

Was there Environmental Damage?	
	• Was there Environmental Damage?
	Yes
	Environmental Damage
 Was there Environmental Damage? 	
Yes	
No	