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Update to the Code of Environmental Practice

APGA Convention 2022

Matt McDermott

APGA Environment Sub-committee Chair

CNC is proudly certified to

bsi ISO 9001 Quality Management Systems CERTIFIED | ISO 14001 Environmental Management CERTIFIED | ISO 45001 Occupational Health and Safety Management CERTIFIED

Introduction

- About the Code
- Review Process
- Key additions
- Future direction

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About the Code

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Purpose

Provides industry accepted guidance on environmental management through the planning and asset acquisition, construction, operational and decommissioning phases of a pipeline's lifecycle

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Purpose

The code focusses on high pressure gas pipeline however is applicable across all pipelines.

Does not contain comprehensive detail on environmental risks or environmental risk management methods.

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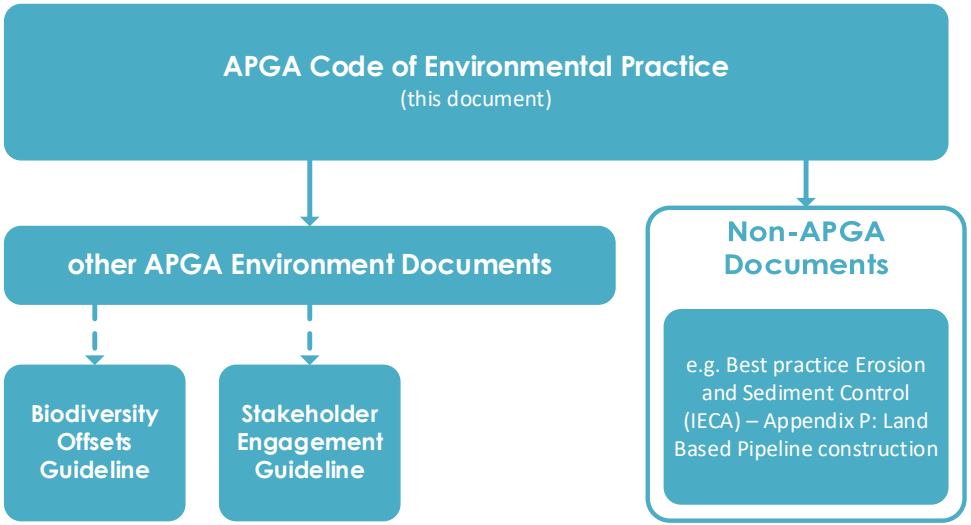
APGA Guidelines and Codes of Practice

APGA Environment Document Hierarchy



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How the code is used

- Used as a reference by regulators, asset owners, contractors and consultants.
- The code is commonly inserted into project approval conditions.
    - Works must generally be in accordance with or consistent with.

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	(International Erosion Control Association 2008)

The performance objectives of this CEMP have been developed to be consistent with the *Australian Pipelines and Gas Association Code of Environmental Practice – Onshore Pipelines, 2022.*

4.3 Industry and Agency Standards

Document Title
Australian Pipeline Industry Association Code of Environmental Practice – Onshore Pipelines (2013)
AS 1940-2004 Storage and Handling of Flammable and Combustible Liquids
AS 2436-1981 Guide to noise control on construction, maintenance and demolition site
AS 2885.1-2012 Australian Pipeline Standard - Design and Construction
AS 2885.2-2007 Australian Pipeline Standard - Welding
AS 2885.5-2012 Australian Pipeline Standard – Pressure Testing
AS/NZS 3000-2007 Electrical Installations Standard
AS 3780 The Storage and Handling of Corrosive Substances
ASME B31.3-2009 Standards for Pressure Piping
AS/NZS ISO 14001:2004 Environmental Management Systems - Requirements with guidance for use
The Australian Code for the Transport of Dangerous Goods by Road and Rail
NOHSC 1003-1995 Worksafe National Exposure Standards

Soil management

PPSCC 8 (S)	Measures must be implemented and maintained to minimise stormwater entry onto significantly disturbed land.
PPSCC 9 (S)	Sediment and erosion control measures to prevent soil loss and deposition beyond significantly disturbed land must be implemented and maintained.
VAR 7	The measures required by standard conditions (PPSCC 8) and (PPSCC 9) must be in accordance, to the greatest practicable extent, with the International Erosion Control Association (IECA) *Best Practice Erosion and Sediment Control (BPESC) document* and/or the *APGA Code of Environmental Practice: Onshore Pipelines Revision 4 (2017).*

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Review Process

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Requirement for review

- To ensure the APGA CoEP is up to date, fit for purpose, and aligned with current industry best practice.
- Aimed at updating and building on the current document rather than wholesale changes.
- Previous Revisions:
    - Revision 1 October 2005
    - Revision 2 March 2009
    - Revision 3 May 2013
    - Revision 4 September 2017
    - Revision 5 April 2022

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The working group

- Volunteers from the APGA environment sub-committee
- Environment professionals from varying background
- Asset owners, contractors and consultants
- Facilitated by APGAs Jordan McCollum

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Team Members

Asset Owners	Contractors	Consultants
Mark Brown (AGIG)	James Crewe (McConnell Dowell)	Matt McDermott (CNC)
Brynne Jayatilaka (APA / Ventia)	Christy Harvey (McConnell Dowell)	Brent Davey (Monarc Environmental)
Jodi Wood (Jemena)	Tim Walker (McConnell Dowell)	Tanya Reedman (Advisian)
Rahul Dorairaj (Jemena)	Martin Ross (McConnell Dowell)	Shaun Smith (Virid IFC)
John Tunney (APA)	Brett Rodgers (Nacap)	

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Review Process

- Working group convened November 2021
- Initial review
- Split into Focus Groups

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Focus Groups

Code Section	Section Lead	Section Support
1. Introduction	Matt McDermott	Shaun Smith
2. Legislation, Regulation and Standards	Tim Walker	Matt McDermott
3. Environmental Management Systems	James Crewe	Matt McDermott
4. Environmental Risk Management Process	Martin Ross	James Crewe
5. Environmental Risk Areas (overall)	Shaun Smith	James Crewe Brynne Jayatilaka Mark Brown

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Focus Groups

Code Section	Section Lead	Section Support
6. Pipeline Lifecycle Phase: Planning and Asset Acquisition	Brett Rodgers	Brynne Jayatilaka
7. Pipeline Lifecycle Phase: Construction	Jodi Wood	Martin Ross Shaun Smith Christy Harvey
8. Pipeline Lifecycle Phase – Operation	John Tunney	Jodi Wood Rahul Dorairaj
9. Pipeline Lifecycle Phase – Decommissioning	Brynne Jayatilaka	James Crewe
10. Sustainability	Tim Walker	Tanya Reedman

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Review Process

- Outputs from focus group collated into a working draft
- Final Draft – April 2022
- APGA HSE Committee Review
- Regulatory Review

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Regulator Engagement

Jurisdiction	Regulator
Federal	DAWE (DCCEEW) Compliance Branch
New South Wales	DPE P&A ERC Director Resource Assessments
Victoria	DELWP
Queensland	DES – Department of Environment and Science Principal Environmental Assessment Officer
South Australia	DEM
Western Australia	DMIRS
Tasmania	No central point of focus
Northern Territory	DITT

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Review Process

- APGA Approval Process
- Publishing – July 2022
- 9 month process

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Key Additions

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General

- Refresh and update (not a wholesale change)
- Update to imagery throughout the document
- Refresh of applicable legislation to reflect changes over the last 5 years

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General

- Update to terminology in line with current best practice
- Update to Risk Assessment standard and risk area terminology

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Fauna Management

More prescriptive fauna management

- Pre-clearance survey
- Fauna shelter and passage
- Qualifications of handlers

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Biosecurity Management

Advice on appropriate methods for wash down / blow down in various conditions.

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Soil Management

- Additional details on soil characteristics and constraints
- Additional advice on managing various soil types and constraints
- Erosion and sediment control management

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Waste Management

- Waste classification
- Naturally occurring radioactive materials
- Odour emissions
- Contaminated land

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Hydrostatic Testing

Greater detail around water management / testing and use of chemicals

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Sustainability

- New section added in 1.2.5
- Infrastructure Sustainability Council (IS Council / ISCA)

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Future Direction

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Sustainability

- More detail specific to pipelines
- Advice on achieving wins for projects
- Potential for standalone code / guideline

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Links to Decarbonisation

- Hydrogen
- Renewables

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Conclusion

- Mature document
- Respected/trusted within the industry
- Benefits of the change –
    - more clarity on some common risk areas

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Questions

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