



Standards Alert

Chemical Dosing Unit Specification (ACP0002 – Version 6) is now available.

This document specifies the design and construction requirements for a standard Chemical Dosing Unit (CDU) located in the sewer network. The document is to be used for the design, construction, installation and commissioning of both, transportable and permanently installed CDUs.

Why has the specification been updated?

This is the sixth version of the Chemical Dosing Unit Specification which was originally published in 2008 and last revised in 2021. The document has been substantially amended to improve reliability & safety, environmental protection, carbon saving, implement lessons learnt, while reducing CAPEX and OPEX costs

What has changed from the previous version?

Key changes from the previous version include:

- New clause for wet weather interlocks to stop dosing during wet weather and a local interlock to stop dosing in the event of pump station overflow.
- Additional requirements related to
 - slips, trips and falls hazards
 - venting chemical storage tanks external to the CDU building and tank overflow requirements to prevent internal building corrosion
 - RPZ requirements clarification
 - Storage tank side access hatch requirements now related to tank integrity rather than volume of tank
 - RTU power supply and digital/analogue connections.


How do these changes impact users and what are the key benefits?

The total number of planned CDU works as estimated as part of the shared purchasing panel is 16 over the next 5 years. The updated Specification represents a summary of already accepted and proven design solutions and lessons learnt on recently completed similar projects. Its benefits include:

- Update RTU connection, power supply requirements and telecommunications requirements.
- Improved safety by addressing known risks (slips trips and falls, signage/labels, training requirements).
- Saving over the next 5 years in reduced CAPEX (\$40k) and reduced OPEX (\$84k) from pipe material and painting changes, wet weather interlocks, storage tank venting external to CDU Building reducing ventilation requirements.

When do these changes become effective?

- The updated specification applies to new design projects commencing from now onwards. There is no requirement to apply the updated specification retrospectively to existing projects.
- There are opportunities for early adoption to take advantage of the benefits outlined above. The decision to adopt requirements of the new Specification for existing projects is at the discretion of the Project Manager (or equivalent role that has authority to act on



behalf of Sydney Water). The Project Manager must also consider any contractual obligations.

Where can I find the new version?

- [iConnect](#)
- [SWDelivery Portal](#)
- [SWDelivery Portal](#)

How can I provide feedback?

If you have any feedback, please email standards@sydneywater.com.au