



Standards Alert

DOC002263 Technical Specification – Arc Flash Version 2 is now available.

Why have the Technical Specification been updated?

This is the second version of the Technical Specification – Arc Flash following the initial release in September 2023. In November 2024, the delivery team involved in the SW Arc Flash Mitigation projects raised queries seeking clarification on when to apply IEEE 1584 or Ralph Lee arc flash calculation methods during the arc flash modelling exercise.

The updated version 2 focuses on providing further clarity to the queries raised and outlines technical requirements.

What has changed from the previous version?

Key changes from the previous version include:

- Provide further clarity on when to apply IEEE 1854 or Ralph Lee arc flash calculation method, specifically addressing,
 - What inputs would be required.
 - When to make assumptions and use reference values.
 - How to manage the results derived from different calculation methods.
- Provide further clarity on arc flash mitigation to include consideration when the protective devices are managed by the Distribution Network Service Provider

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

- Enhance project delivery timelines by offering clearer and more precise technical requirements.
- Reduce project cost by streamlining the modelling and assessment methods.

- Minimise project effort spent on arc flash mitigation options could yield lower cost efficiency outcome by providing clarity on arc flash mitigation hierarchy.

When do these changes become effective?

- For projects where arc flash modelling and mitigation design have completed, Version 1 of the Technical Specification – Arc Flash can continue to be used.
- For projects where arc flash modelling and mitigation design has not yet commenced, the latest version of the specification document should be following to help improve delivery time and reduce project cost.

Where can I find the new version?

- [iConnect](#)
- [SWDelivery Portal](#)
- [Sydney Water website](#)

How can I provide feedback?

If you have any feedback on the referred specification document, please email paul.zhou@sydneywater.com.au