
STANDARDS BULLETIN No : S01-065

SUBJECT: MK2 package substation equipped with Driescher MINEX-C
RMU

Purpose:

The introduction of the MK2 underground distribution substation equipped with Driescher MINEX-C Ring Main Unit (RMU).

Reason:

The design of our current distribution package substation, more commonly know as the 7000 series, has been in service for almost 25 years. Over the years alterative technologies and methods of construction has greatly improved.

For the continued improvement of network performance and safety to both public and staff, PWC have developed a new and improved underground distribution package substation named MARK II (MK2). It's equipped with some of the latest equipment including condition monitoring equipment, the Driescher MINEX-C RMU and improved fault detection equipment.

Requirements:

The MK2 package substation will supersede the current 7000 series models for both 11kV and 22kV systems and in all transformer sizes. Standards will change for both civil and electrical aspects during installations. Details of which are available via the PWC web page –Standards drawings.

http://www.powerwater.com.au/networks_and_infrastructure/standard_drawings

Implementation:

The practice is to be made with immediate effect. Projects with approved design drawings before the issue date of this bulletin involving 7000 series models may have the option to choose the type of substation used. All projects submission after the release date shall specify the MK2 substation.

List of drawings for the new substation:

S02-1-7-17 (5 sheets): Substation general arrangement

S02-2-6-30: Civil, cable entry and foundation details, Greenfield sites

S02-2-6-31: Civil, cable entry and foundation details, Brownfield sites

S02-2-5-10: Earthing general arrangement

S02-2-6-17: Easements

S02-1-4-22 (3 sheets): Switchgear, Dreischer MINEX-C RMU