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PREPARED BY : ALAN TICE  
AUTHORISED BY : BRIAN KENT

**STANDARDS BRANCH  
— Power Division**

S1-049

**STANDARDS BULLETIN No. :**

POLYMER HOUSED ZINC OXIDE SURGE DIVERTERS

SUBJECT:

New generation polymer housed zinc oxide HV surge diverters are being introduced and all future purchases on the new period contract will be of this type of diverter.

These diverters have been adopted for use by PAWA due to the benefits of:-

- 1: superior lightning performance of the metal oxide core
  - 2: increased reliability and longer service life
  - 3: non-shattering and therefor safer construction of the polymer housing
- and 4: the considerable weight advantage when compared to the ceramic type.

Standard drawing number S1-1-4-19 amendment 9 shows the new diverter along with mounting brackets (including the one for earth disconnect). The metal mounting brackets will be required for maintenance replacement of the superceded ceramic diverters with polymer units.

New and amended construction drawings showing the method of mounting of these new diverters have been produced and are included in this current issue of Volume 1 drawings. Time should be taken to familiarise yourself with the new arrangements as quite a number of drawings are affected. Affected drawings are listed on the attached 'Appendix A'.

Please ensure that all contract projects, or construction by developers include zinc oxide diverters in accordance with drawing number S1-1-4-19 amendment 9.

Porcelain silicone carbide diverters will no longer be purchased. After existing stocks of these units are exhausted all new construction must utilise zinc oxide diverters.

BRIAN KENT  
STANDARDS MANAGER POWER

S1-1-2-3	New crossarm for diverter mounting
S1-1-4-19	Changed to show new diverter
S1-2-3-5	Changed to show new diverter profile on crossarm
S1-2-3-6	Changed to show new diverter profile on transformer
S1-2-3-7	Changed to show new diverter profile as stand-off insulator
S1-2-3-8	Changed to show new diverter profile on transformer
S1-2-3-10	Changed to show new diverter mounting arrangement
S1-2-3-15	New drawing
S1-2-3-16	New drawing
S1-2-4-5	Changed to show new diverter profile as stand-off insulator
S1-2-4-6	Changed to show new diverter profile as stand-off insulator
S1-2-5-4	Changed to show new crossarm arrangement
S1-2-5-9	Changed to show new crossarm arrangement
S1-2-5-10	Changed to show new crossarm arrangement
S1-2-5-12	Changed to show new crossarm arrangement
S1-2-5-13	Changed to show new crossarm arrangement
S1-2-5-15	Changed to show new crossarm arrangement
S1-2-6-1	Changed to show new diverter profile on transformer
S1-2-6-2	Changed to show new diverter profile on transformer
S1-2-6-4	Changed to show new diverter profile on crossarm
S1-2-6-6	Changed to show new diverter profile on transformer
S1-2-8-1	Changed to show new diverter profile on crossarm
S1-2-8-2	Changed to show new diverter profile on crossarm