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**STANDARDS BRANCH
- Power Division**

STANDARDS BULLETIN No. : S1-047

SUBJECT: 11kV LINE INSULATION

The failure rate of 11kV pin insulators has been recognized as excessively high. This could be due to a combination of factors:

- (a) extreme lightning activity
- (b) quality problems with insulators.

To remedy the problem P.A.W.A is adopting the practice of using 22kV pin insulators on the 11kV system for all new and maintenance work.

For new work it is simply a case of using existing 22kV hardware as a direct replacement for 11kV hardware.

Drawings S1-1-2-2, S1-1-3-5, S1-1-4-1, and S1-2-1-4 have been modified to suit this requirement.

Maintenance work, however has required the inclusion of a new pin to cater for the 20mm hole size in existing crossarms and the "C" pattern thread on the 22kV insulators. The new pin is shown as Item 1 on drawing S1-1-4-1 Amdt 6. Please note the column titled "Application Guide" on the drawing.

Once stocks of the new pin are available use of the current pin will cease as will the use of 11kV pin insulators.

All current stocks of (11kV) steel crossarms (S/C 9621) are to have the 22mm holes enlarged to 26mm to accept the larger 22kV pin. Crossarm 9621 will then be discontinued as a stores item and S/C 9597 will be used instead.

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