EARTH MAT AND TAILS

. Compression tool shall not release until the full compression of 12 tonne has been achieved.
. The correct tool and die, as given in the table, shall be used for crimping the chosen connector.
. Internal surfaces of the connector shall be wiped clean before installation, except in cases where connectors are filled with anti-oxidising grease.

6. Brazed joints to be oxy -acetylene brazed using 3mm dia silbralloy brazing rods as supplied by African Oxygen Ltd., or equivalent, no flux is required.

7. Where an earth clamp (Sheet C6) is used to clamp earth tails to equipment steelwork a bolt torque of 75 Nm is to be used.

8. All above ground connections to be made with steel bolts, washers and nuts that are not hot dip galvanised for outdoor installations, (Supplied by civil contractor) and electrogalvanised for indoor installations (Supplied by the contractor responsible for relevant earth mat portions in Power Stations) . The minimum thickness of zinc coating to be in accordance with the latest issue of SABS 763.

9. Number of support steel earthing connections (unless otherwise stated) to be:

12,5 kA	- one connections per support
16 kA, 20 kA, 25 kA	- two connections per support
31.5 kA, 40 kA	- three connection per support
50 kA	- four connection per support
Main steel Columns	- one connection per column for all fault levels

Note - Each connection to be 150mm^2 min. cross sectional area.
One connection consists of 2 x 10mm dia Cu rods.

10. Sacrificial eathmat anodes shown thus (S EA) are to be manufactured and connected to the main earth mat as per Sheet T12 for mild to very severe corrosive soil conditions.
The application of these anodes will be determined by the results of soil tests carried out by ESKOM or an appointed representative.

THE C.A.D. REFERENCE NUMBER IS: [100,164100393EC02.R05

ESKOM

DRAWN GETEKEN			CHKD NAGES			AUTH MAS		W.N. AUG 96	REV	5	DATE DATUM	2.8. 1996

EARTHING STANDARDS

0.54/393

SHEET C2

DRG.TEK REGISTR		

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