



MATERIAL SPECIFICATION

VOCAB NUMBER	ITEM DESCRIPTION
134051	SHROUD, TRANSFORMER BUSHING, 11KV BLACK POLYETHYLENE SHIELDS.

SPECIFICATION DETAILS

Black, polyethylene shields for transformer bushings.

To fit ESSA Standard, 11kV, 250 amps, bushing (ESSA drawings 2/3/1B, Elcom SC-1/18).

To be suitable for outdoor use in a tropical environment at altitudes up to 3000m.

Full dimensioned drawings and description of product to be provided with tender.

- **Unit of Measure:** Metres
- **Rejection:** PNG Power Ltd reserves all rights to reject whole or part of the order not complying with this specification and is not liable for any cost or loss with the return of rejects to the Supplier. Facilitation of Invoice Credit must commence between the supplier and PNG Power Ltd through the process of PNG Power Ltd Discrepancy Report provisions.

Drawing References:

Manufacturer's Product Code:

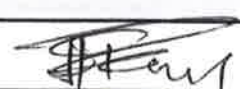



STANDARDS COMMITTEE APPROVAL

Approval by Alex Oa
Chairman

Signature: 

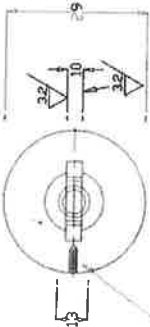
Date: 22.6.16

DATA REVIEW ENDORSEMENT

NAME	TITLE	SIGNATURE	DATE
Grevasias Peni	Team Leader Standards & Materials		16/6/16
			09/03/20

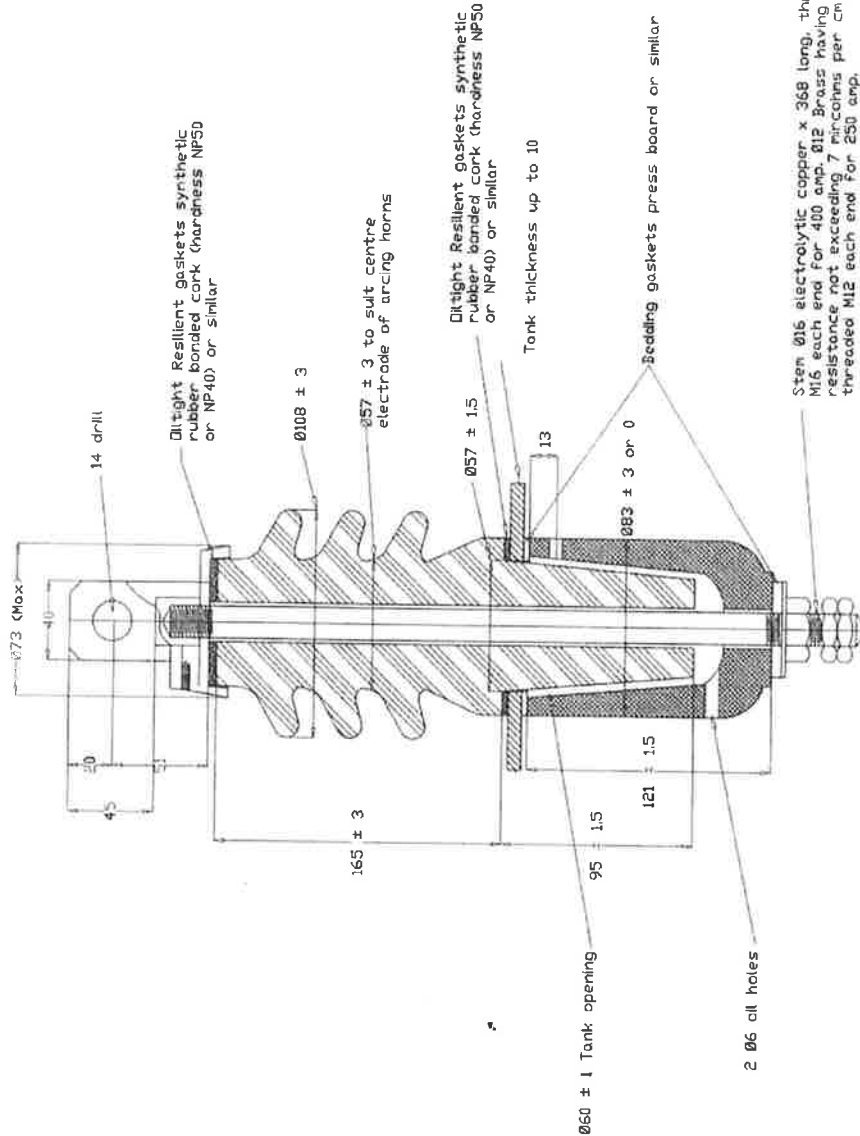
NOTES:

1. This bushing shall comply with the requirement of AS 1265/1974
2. Further information in accordance with AS 1265/1974 appendix 'A' is)
- 2.1 This outdoor immersed type bushing is suitable for use only on oil immersed Distribution Transformers, of rated capacity not exceeding 1000kVA. On other than Distribution Transformers, or on Distribution transformers having a capacity in excess of 1000kVA, it should be used only with the specific approval of the customer.
- 2.2 Rated voltage 12kV
- 2.3 Rated Phase to Earth voltage 12/√3 kV
- 2.4 Service Conditions. Standard, with no worse than normal pollution.
- 2.5 Insulation Level Power frequency withstand Voltage (wet or dry) 28kV, RMS, Impulse withstand voltage (dry) 95kV.
- 2.6 Rated current 400 amp or 250 amp.
- 2.7 Dimensional restrictions as on this drawing.
- 2.8 Cap and terminal flange are to be of Corrosion resistant non ferrous, Non-porous alloy, tested to 100kPa.
3. Porcelain glazed colour munsell system code number 5B670/0.4
4. Stem to be attached to bushing cap by screwing and sweating or equivalent.
5. All porcelain surfaces in contact with gaskets to be ground flat and square with axis of bushing.
6. The general form of the porcelain is to be in accordance with this drawing.
7. The bushing shall be suitable for the addition of Dual gap arcing horns.
8. Partial discharges have occurred in service near tank opening. Use of conducting paint, or equivalent, on assembly is advised.
9. That part of the terminal bushing which is within the tank must be completely oil immersed.

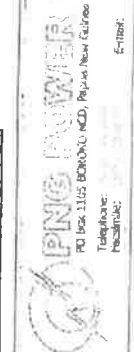


Boss for Rod cap
Tap M6 x 10 deep

PLAN VIEW OF CAP ONLY



DRAWING NOT TO SCALE - ALL DIMENSIONS IN MILLIMETRES



Revised		By		Date	
Made to USA drawing 21218		AA	CHB	20/04/88	
Mechanical Utility Asset & Logic Upgrade		LS	CHB	22/07/88	

C/O	Munitions	Rev.	Revision		Location	Standards & Materials
			Drawn	Checked		
22/03/88	CHB	A	CHB	CHB	T15	General arrangement of E.S.A Standard 12kV, 250 amp & 400 amp Distribution transformer terminal bushings.
		B			A3	SC 1/18

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