

Title: **EAST GRID HIGH RISK IMBA/ECT REPLACEMENT PROJECT
SCOPE OF WORKS
(ELECTRICAL)**

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1. INTRODUCTION

This document details the scope forming part of the East Grid High Risk Replacement Project. The project scope is to replace all the identified High Risk Asea IMBA & IMBE CTs of various voltages that are deemed to be in a very poor condition in service in the East Grid Region.

2. REFERENCES

[1] Occupational Health and Safety Act (OHS Act) 85 of 1993

3. SCOPE OF WORK

The Electrical Scope of Work involves the following:

Mersey MTS - 400kV Bays:

Qty	Bay	Scope of Work
3	Transformer 2	- Decommission Mersey Transformer 1 Bay 3 X 400kV CT's. - Install new 3 x 400kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 1 bay CT clamps and remove CT's from steel supports. - Erect new transformer 1 bay CT's and re-string bay with new conductor and clamps.
3	Transformer 3	- Decommission Mersey Transformer 2 Bay 3 X 400kV CT's. - Install new 3 x 400kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 2 bay CT clamps and remove CT's from steel supports. - Erect new transformer 2 bay CT's and re-string bay with new conductor and clamps.
3	Bus Section 1	- Decommission Mersey Bus Section 1 Bay 3 X 400kV CT's. - Install new 3 x 400kV CT's to replace decommissioned CT's - Disconnect/Unbolt existing Bus Section 1 bay CT clamps and remove CT's from steel supports. - Erect new Bus Section 1 bay CT's and re-string bay with new conductor and clamps.

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Mersey MTS - 275kV Bay:

Qty	Bay	Scope of Work
3	Transformer 3	- Decommission Mersey Transformer 3 Bay 3 X 275kV CT's. - Install new 3 x 275kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 3 bay CT clamps and remove CT's from steel supports. - Erect new transformer 3 bay CT's and re-string bay with new conductor and clamps.

Impala MTS - 275kV Bay:

Qty	Bay	Scope of Work
3	Transformer 1	- Decommission Impala Transformer 1 Bay 3 X 275kV CT's. - Install new 3 x 275kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 1 bay CT clamps and remove CT's from steel supports. - Erect new transformer 1 bay CT's and re-string bay with new conductor and clamps.

Tugela MTS - 275kV Bay:

Qty	Bay	Scope of Work
3	Transformer 1	- Decommission Tugela Transformer 1 Bay 3 X 275kV CT's. - Install new 3 x 275kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 1 bay CT clamps and remove CT's from steel supports. - Erect new transformer 1 bay CT's and re-string bay with new conductor and clamps.

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Tugela MTS - 132kV Bays:

Qty	Bay	Scope of Work
3	Transformer 1	- Decommission Tugela Transformer 1 Bay 3 X 132kV CT's. - Install new 3 x 132kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 1 bay CT clamps and remove CT's from steel supports. - Erect new transformer 1 bay CT's and re-string bay with new conductor and clamps.
3	Transformer 3	- Decommission Tugela Transformer 3 Bay 3 X 132kV CT's. - Install new 3 x 132kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 3 bay CT clamps and remove CT's from steel supports. - Erect new transformer 3 bay CT's and re-string bay with new conductor and clamps.
6	Bus Coupler A	- Decommission Tugela Bus Coupler A Bay 6 X 132kV CT's. - Install new 6 x 132kV CT's to replace decommissioned CT's - Disconnect/Unbolt existing Bus Coupler A bay CT clamps and remove CT's from steel supports. - Erect new Bus Coupler A bay CT's and re-string bay with new conductor and clamps.

Avon MTS - 132kV Bays:

Qty	Bay	Scope of Work
3	Transformer 1	- Decommission Avon Transformer 1 Bay 3 X 132kV CT's. - Install new 3 x 132kV CT's to replace decommissioned CT's. - Disconnect/Unbolt existing transformer 1 bay CT clamps and remove CT's from steel supports. - Erect new transformer 1 bay CT's and re-string bay with new conductor and clamps. - Install additional 2 x additional earth tails onto the existing CT structures of Transformer 1 bay.
3	Bus Coupler A	- Decommission Avon Bus Coupler A Bay 3 X 132kV CT's. - Install new 3 x 132kV CT's to replace decommissioned CT's - Disconnect/Unbolt existing Bus Coupler A bay CT clamps and remove CT's from steel supports. - Erect new Bus Coupler A bay CT's and re-string bay with new conductor and clamps - Install additional 2 x additional earth tails onto the existing CT structures of Bus Coupler A bay.

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This scope of work to be read in conjunction with the following drawings:

Document Number	Rev.	Document Title	Remarks
Mers22P10-SE-D6	0	MERSEY SUBSTATION STATION ELECTRIC DIAGRAM	-
Mers22P10-SE-D16 Sheet 15	0	MERSEY 400kV BAY BUS SECTION	-
Mers22P10-SE-D16 Sheet 10	0	MERSEY 400kV TRANSFORMER 3	-
Mers22P10-SE-D16 Sheet 9	0	MERSEY 400kV TRANSFORMER 2	-
Mers22P10-SE-D16 Sheet 29	0	MERSEY 275kV TRANSFORMER 3	-
Tug25P08-SE-D6	0	TUGELA STATION ELECTRIC DIAGRAM	-
Tug25P08-SE-D16 Sheet 2	0	TUGELA 132kV BUS COUPLER	-
Tug25P08-SE-D16 Sheet 3	0	TUGELA 132kV TRANSFORMER 1	-
Tug25P08-SE-D16 Sheet 4	0	TUGELA 132kV TRANSFORMER 3	-
Tug25P08-SE-D16 Sheet 5	0	TUGELA 275kV TRANSFORMER 1	-
Imp22P12-SE-D6	0	IMPALA STATION ELECTRIC DIAGRAM	-
Imp22P12-SE-D16 Sheet 10	0	IMPALA 275kV TRANSFORMER 6	-
Avo22P08-SE-D6	0	AVON STATION ELECTRIC DIAGRAM	-
Avo22P08-SE-D16 Sheet 26 & 26A	0	AVON 132kV TRANSFORMER	-
Avo22P08-SE-D16 Sheet 28 & 28A	0	AVON 132kV BUS COUPLER WEST	-

All construction is to be carried out in accordance with Eskom's Safety, Health and Environmental Specification & Occupational Health and Safety Act (OHS Act). All necessary safety procedures must be strictly adhered to.

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4. AUTHORISATION

This document has been seen and accepted by:

Name	Designation
-	-
-	-

5. REVISIONS

Date	Rev.	Compiler	Remarks
November 2025	1	-	First Issue
June 2026	2	-	Scope Revised

6. DEVELOPMENT TEAM

The following people were involved in the development of this document:

7. ACKNOWLEDGEMENTS

None

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