



Environmental Management Plan

Site: Various Substations		Scope of Work: REYROLLE OSM10 BREAKER PHASING OUT						
Project code:TBA		Project Manager: Thandikile Boyce						
		Date: 10 January 2007			Compiled by: Des Gailey			
Activity	Environmental Aspect	Impact (Y/N)	Significance (H/M/L/VL/N)	Regulatory requirements	Actions to be taken	Responsible Team/Person	Due Date	Date Compl
Foundation civil works								
Establish contractors	Site establishment	Yes	Low	National Water Act (Act 36 of 1998)	Site to be kept tidy & hygenic with	Appointed contractor	TBA	TBA
yard/store	Ablution facilities	Yes	Medium	Health Act(63 of 77)	special reference to sanitation & water			
	Water management	Yes	Medium	OHS(Act 85 of 1993)	water management			
				NEMA(Act 8 of 2004)				
				Transmission EMP				
Delivery of materials	Heavy vehicles	Yes	Low	National Roads Act (Act 54 of 1971)	No oil leaks	Appointed contractor	TBA	TBA
	Material storage	Yes	Low	OHS(Act 85 of 1993)	Separated materials			
	Off loading materials	Yes	Low	NEMA(Act 8 of 2004)	Liscenced drivers & operators			
						0		
Remove existing yard stone & stockpile	Heavy vehicles	Yes	Low	OHS(Act 85 of 1993)	No oil leaks	Appointed contractor	TBA	TBA
	Yard stone	Yes	Low	HV Regs(Mods 1-4,7)	Separated materials			

Mixing concrete	Concrete dust	Yes	Low	OHS(Act 85 of 1993)	PPE to be used	Appointed contractor	TBA	TBA
	Cement bags	Yes	Low	National Water Act (Act 36 of 1998)	Litter management			
				Atmospheric Pollution Prevention Act (Act 45 of 1965)				
Cast capping layer	Concrete spills	Yes	Low	OHS(Act 85 of 1993)	Spills in foundation backfill	Appointed contractor	TBA	TBA
				NEMA(Act 8 of 2004)				
Place copper earthing	Copper offcuts	Yes	Low	OHS(Act 85 of 1993)	Collect off cuts for recycling	Appointed contractor	TBA	TBA
				HV Regs(Mods 1-4,7)				
Connect earthing to steelwork	Welding, brazing	Yes	Low	OHS(Act 85 of 1993)	Management of old welding rods	Appointed contractor	TBA	TBA
				HV Regs(Mods 1-4,7)				
				NEMA(Act 8 of 2004)				
Reinstate yardstone	Heavy machinery	Yes	Low	OHS(Act 85 of 1993)	Oil spills	Appointed contractor	TBA	TBA
	Workers with rakes			HV Regs(Mods 1-4,7)	Use of PPE			
				NEMA(Act 8 of 2004)				
De-establish contractors yard/store	Heavy vehicles	Yes	Medium	OHS(Act 85 of 1993)	All waste, garbage, surplus materials & oil spills to be cleared & site rehabilitated.	Appointed contractor	TBA	TBA
				HV Regs(Mods 1-4,7)				
				NEMA(Act 8 of 2004)				
				Transmission EMP				

Final inspection	Site inspection	No	None	OHS(Act 85 of 1993)	Site to be clear & rehabilitated as per	Project Manager	TBA	TBA
				HV Regs	original condition	Grid Environ Advisor		
				NEMA(Act 8 of 2004)		Site supervisor		
				Transmission EMP		Appointed contractor		
Take over works	Take Over/ Hand Over	No	None	Transmission EMP	Site accepted from	Appointed contractor	TBA	TBA
					Contractor & Handed over			
					Grid Representative			
Circuit Breakers								
Supply & delivery of new	Circuit Breakers (SF6)	Yes	Low	OHS(Act 85 of 1993)	Liscenced drivers & operators to obey	Appointed contractor	TBA	TBA
Circuit Breakers				HV Regs	all road & local bylaws			
				National Road Act	Correct loading & securing of equipment			
				(Act 54 of 1971)				
				ESKAASAAJ9 (SF6				
				Switch Gear Installation)				
Establish contractor on	Site establishment	Yes	Low	National Water Act	Site to be kept tidy & hygenic with	Appointed contractor	TBA	TBA
site				(Act 36 of 1998)	special reference to sanitation & water			
				Health Act(63 of 77)	water management			
				OHS(Act 85 of 1993)				
				NEMA(Act 8 of 2004)				
				Transmission EMP				
Removal of CB clamps &	Clamps, cables &	No	Very low	OHS(Act 85 of 1993)	Crane operators to be licenced in	Appointed contractor	TBA	TBA
conductors	conductors			HV Regs(Mods 1-4,7)	accordancs with OHS Act			
Dismantling of old CB's	Circuit Breakers (oil)	Yes	Low	OHS(Act 85 of 1993)	Crane operators to be licenced in	Appointed contractor	TBA	TBA
				HV Regs	accordancs with OHS Act			
				ESKASBT0 (Oil	Correct handling & storage of equipment			
				cleanup & Rehab)	to prevent oil spills			
Dismantle existing CB steel	Steelwork	Yes	Low	OHS(Act 85 of 1993)	Prevent damage to surrounding over-	Appointed contractor	TBA	TBA
work				HV Regs(Mods 1-4,7)	head structures.			
				ESKADAAR8 Correct				
				reuse, disposal or				
				scrapping of Eskom				

				assets				
Removal of concrete foundations	Heavy machinery Workers with jack-hammers	Yes	Low	OHS(Act 85 of 1993) HV Regs NEMA(Act 8 of 2004)	Workers to use PPE Safe operation of power tools Legal disposal of concrete rubble	Appointed contractor	TBA	TBA
Excavate foundation	Workers with hand tools	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) NEMA(Act 8 of 2004)	Workers to use PPE Safe operation of power tools Spoil to be evenly spread	Appointed contractor	TBA	TBA
Concrete for foundations	Heavy vehicles	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) NEMA(Act 8 of 2004)	Correct disposal of cement bags & concrete spills	Appointed contractor	TBA	TBA
Erection of steelwork	Heavy vehicles	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7)	Crane operators to be licenced in accordancs with OHS Act No damage to surrounding infrastructure	Appointed contractor	TBA	TBA
Install new Circuit Breaker	Heavy vehicles Circuit Breakers (SF6)	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) ESKAASAAJ9 (SF6 Switch Gear Installatic	Crane operators to be licenced in accordancs with OHS Act No damage to surrounding infrastructure All personell to be suitably accredited to	Appointed contractor	TBA	TBA
Install new cables, clamps & conductors	Cables, clamps & conductors	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) NEMA(Act 8 of 2004)	Crane operators to be licenced in accordancs with OHS Act No damage to surrounding infrastructure All personell to be suitably accredited to perform the duties All cable off cuts collected for recycling	Appointed contractor	TBA	TBA
Install new junction box	Junction box	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7)	Safe working procedures	Appointed contractor	TBA	TBA
Install new Protection cabling	Cabling	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7)	Safe work procedures. Appropriate disposal of waste cables and insulation materials	Appointed contractor	TBA	TBA

Clear site	Refuse, waste, scrap & oil spills	Yes	Low	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) NEMA(Act 8 of 2004) Transmission EMP	All waste, refuse, surplus materials, packaging material & oil spills to be cleared & site rehabilitated.	Appointed contractor	TBA	TBA
Final inspection	Site inspection	No	None	OHS(Act 85 of 1993) HV Regs(Mods 1-4,7) NEMA(Act 8 of 2004) Transmission EMP	Site to be clear & rehabilitated as per original condition	Project Manager Grid Environ Advisor Site supervisor Appointed contractor	TBA	TBA
Take over works	Take Over/ Hand Over	No	None	Transmission EMP	Site accepted from Contractor & Handed over Grid Representative	Project Manager Grid Environ Advisor Site supervisor Appointed contractor	TBA	TBA

Appendix 1

PRO FORMA TO BE SIGNED BY THE CONTRACTOR AND ESKOM PROJECT MANAGER

CONTRACT NAME: _____

CONTRACT NUMBER: _____

ENVIRONMENTAL COMPLIANCE

I _____ ON BEHALF OF _____ (C)

I _____ ON BEHALF OF ESKOM

DECLARE AS FOLLOWS:

1. I AM AWARE THAT CONSTRUCTION, REFURBISHMENT OR UPGRADING ACTIVITIES CAN HAVE A MAJOR IMPACT ON THE ENVIRONMENT.
2. I UNDERTAKE TO ADHERE TO THE REQUIREMENTS AS SET OUT IN THE ENVIRONMENTAL MANAGEMENT PROGRAMME AND THE RECORD OF DECISION FROM DEAT.
3. I PLEDGE TO INFORM ALL SITE STAFF OF THEIR INVOLVEMENT IN MANAGING ENVIRONMENTAL IMPACTS ON SITE.
4. I COMMIT TO IMPLEMENTING ENVIRONMENTAL BEST PRACTISE ON SITE AT ALL TIMES DURING THE CONTRACT.

SIGNED: _____ DATE: _____

CONTRACTOR

SIGNED: _____ DATE: _____

ESKOM