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TABLE OF RESIDUAL ENVIRONMENTAL ISSUES CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP) PROJECT BRAVO (COAL-FIRED POWER STATION IN THE WITBANK AREA)

Aspect	Source/ Origin	Actions	Documentation	Responsibilities	Program
All linear infrastructure, viz. coal conveyer railway line water pipeline access and service roads	 EIR RoD Project Bravo Construction Environmental Management Plan (CEMP) SANS codes Preliminary route design plans 	 Site inspections to be undertaken by specialists Constraints associated with finalized alignments to be identified, viz. wetland delineation, heritage resources Finalisation of route alignment plans, to be submitted to DEAT Appropriate mitigation requirements to be identified 	Specialist reporting, e.g. search and rescue of significant plant species, protection and management of heritage resources (graves, structures etc) PESs for inclusion in Tender Document	Relevant specialists, viz. freshwater ecologist, heritage practitioner	 Appropriate season re vegetation as identified in EIR and RoD Submission to DEAT Prior to finalization of Tender Document
Terrace preparation and construction, including coal stockyard and ash dump, i.e. bulk earthworks	 EIR RoD Project Bravo CEMP SANS codes Preliminary site design and layout plans 	 Site inspections to be undertaken by specialists Constraints associated with finalised site design and layout plans to be identified, viz. 	Specialist reporting, e.g. search and rescue of significant plant species, protection and management of heritage resources (graves, structures etc)	Eskom Relevant specialists, viz. freshwater ecologist, heritage practitioner	 Appropriate season re vegetation as identified in EIR and RoD Submission to DEAT Prior to finalization of Tender Document



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Aspect	Source/ Origin	Actions	Documentation	Responsibilities	Program
	Terrain contour plan Preliminary drainage structure plans	wetland delineation, heritage resources Finalisation of site design and layout plans Finalisation of drainage structure plans Appropriate mitigation requirements to be identified	PESs for inclusion in Tender Document		
Foundations	 EIR RoD Project Bravo CEMP SANS codes Preliminary site design and layout plans Geological and substrate conditions Preliminary foundations plans 	 Constraints associated with finalised foundations plans to be identified, viz. geological and substrate conditions Finalisation of site design and layout plans Finalisation of drainage structure plans Appropriate mitigation requirements to be identified 	 Reporting on geological and substrate design requirements PESs for inclusion in Tender Document 	Eskom Relevant foundations design specialists	Submission to DEAT Prior to finalization of Tender Document
Structures	• EIR • RoD	Confirm design response to prescribed	Reporting on design response to prescribed	Eskom Relevant	Prior to finalization of Tender Document

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Aspect	Source/ Origin	Actions	Documentation	Responsibilities	Program
	Project Bravo CEMP SANS codes Preliminary design plans for power block, turbine generator areas, air cooled condensers, boiler area, chimney, water treatment, air quality control, compressor buildings etc	mitigatory measures • Finalisation of design plans for structures	mitigatory measures • PESs for inclusion in Tender Document	engineering design specialists	
Site establishment	EIR RoD Project Bravo CEMP SANS codes Preliminary site design and layout plans, defining construction facilities i.e. offices, depots, material storage and handling, first aid station, personnel facilities, security infrastructure, workshops, construction utilities,	 Site inspections to be undertaken by specialists Constraints associated with finalised construction facilities plans, viz. wetland delineation, heritage resources Finalisation of construction facilities plans Appropriate mitigation requirements to be identified 	Specialist reporting, e.g. search and rescue of significant plant species, protection and management of heritage resources (graves, structures etc) PESs for inclusion in Tender Document	Relevant specialists, viz. freshwater ecologist, heritage practitioner Relevant construction facilities design specialists	 Appropriate season re vegetation as identified in EIR and RoD Submission to DEAT Prior to finalization of Tender Document



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Aspect	Source/ Origin	Actions	Documentation	Responsibilities	Program
	communications facilities etc				
Batching plant	 EIR RoD Project Bravo CEMP SANS codes Preliminary concrete supply design and layout plans 	 Site inspections to be undertaken by specialists Constraints associated with finalised concrete supply design and layout plans Finalisation of concrete supply design and layout plans Appropriate mitigation requirements to be identified 	 Specialist reporting, e.g. search and rescue of significant plant species, protection and management of heritage resources (graves, structures etc) PESs for inclusion in Tender Document 	 Eskom Relevant specialists, viz. freshwater ecologist, heritage practitioner Relevant concrete supply design and layout specialists 	 Appropriate season re vegetation as identified in EIR and RoD Submission to DEAT Prior to finalization of Tender Document
Groundwater	 EIR RoD Project Bravo CEMP Preliminary site design and layout plans Geological and substrate conditions Preliminary drainage structure plans 	 Constraints associated with groundwater conditions to be identified, viz. borehole monitoring Finalisation of drainage structure plans Appropriate mitigation requirements to be identified 	Reporting on groundwater conditions PESs for inclusion in Tender Document	Eskom Relevant engineering design specialists	Submission to DEAT Prior to finalization of Tender Document
Major Hazardous Installation	EIR RoD	Site inspections to be undertaken	Specialist reporting on hazardous installations	Eskom Relevant MHI	Submission to DEATPrior to finalization of



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Aspect	Source/ Origin	Actions	Documentation	Responsibilities	Program
	 Project Bravo CEMP SANS codes Preliminary site design and layout plans Preliminary design plans for power block, turbine generator areas, air cooled condensers, boiler area, chimney, water treatment, air quality control, compressor buildings etc 	by specialists Constraints associated with hazardous installations to be identified Finalisation of design plans Appropriate mitigation requirements to be identified	implications • PESs for inclusion in Tender Document	specialist • Relevant engineering design specialists	Tender Document