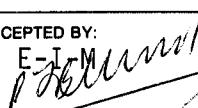
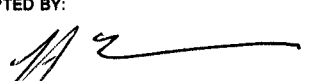
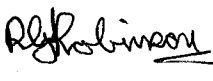
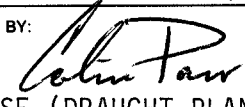
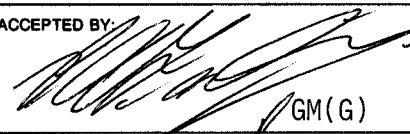
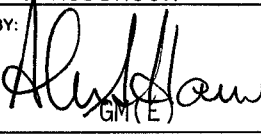


KRB/mf/P5/19 Jan '90

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GGP0322

	ESKOM	formely	REFERENCE NWP 5277	REV. 1	
	PROCEDURE		MAY 1990		
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			DISTRIBUTION		
			STANDARD		
ACCEPTED BY:  E-J.M.  PL(PI)		ACCEPTED BY:  LEVEL III		COMPILED BY:  R G ROBINSON	
ACCEPTED BY:  SE (DRAUGHT PLANT)		ACCEPTED BY:  GM(G)		AUTHORISED BY:  GM(E)	
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REV.	DESCRIPTION OF REVISION	DATE	MINOR REVISION APPROVAL		

PREPARATION FOR INSPECTION OF ESKOM POWER STATION FANS	REFERENCE	REV.	PAGE	OF
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ACTION BY				
1.0 PURPOSE The purpose of this document is to: - ensure an adequate standard of preparation prior to examination of fan runners - ensure a high inspection integrity - ensure cost effective inspections. 2.0 SCOPE The non-destructive examination of fan runners at Eskom Power Stations. 3.0 REFERENCES - BS 6072 - 1987 - Magnetic Particle Flaw Detection - BS 6443 - 1984 - Penetrant Flaw Detection. 4.0 DEFINITIONS - PSM - Power Station Manager or his delegate - NDE - Non-destructive examination. 5.0 RESPONSIBILITIES 5.1 The PSM shall be responsible for ensuring that the requirements of this document are met. 6.0 ACTIONS 6.1 Preparation 6.1.1 The PSM or his delegate shall ensure that: - security clearance permits for NDE personnel, their equipment and vehicle are obtained PSM/ Delegate				

PREPARATION FOR INSPECTION OF ESKOM POWER STATION FANS	REFERENCE	REV.	PAGE	OF
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- a member of the PS staff is nominated to whom the inspection team shall report, receive confirmation and instructions on the work to be carried out and who will deal with any problems that may arise during the inspection - runners are isolated in a safe manner from the drive motor (mechanically or electrically) - all access doors are open - adjustable louvres are open - dampers are closed - residue water in fan housing and surrounding work area is drained - all surfaces of runner are clean and prepared for examination by sand blasting on all welds, 25 mm either side of weld, and 100 mm either side of balance pad - residue sand blasting material/dust to be removed from area of interest and nearby items by sweeping off using brooms, followed by wiping with cloth - the balance pads where nonmagnetic (stainless) are macro-etched, prior to liquid penetrant inspection. - scaffold planks are placed in a safe position inside the fan housing so that the operator can reach the runner - the jacking oil pump is on - a minimum of two power points, for each team of examiners at the entrance to the fan housing is provided - 24 volt lead lights, one per examiner, are supplied, and 220 volt extension leads are in position			PSM/ Delegate PSM/ Delegate PSM/ Delegate PSM/ Delegate	

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- labourer assistance is available to each NDE operator - runners have been inspected by responsible and qualified staff to ensure that the above has been carried out prior to the arrival of the NDE examiners. NOTE: (a) The safety of persons shall be of paramount importance prior to and during the examination. (b) Where the runners cannot be turned manually this shall be reported to maintenance staff.				
7.0 DOCUMENTATION				
None.				
8.0 RECORDS				
None.				