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FEBRUARY 1992

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APPROVED:

P.C. White

EXECUTIVE OFFICER

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1.0 INTRODUCTION

Modification to any part of the Koeberg Nuclear Power Station that could affect the risk of nuclear damage posed by the plant requires approval by the Council for Nuclear Safety (hereinafter referred to as the Council) before being implemented. Any such proposed modification shall be reported to the Council at stage 1 as identified in the appendix, together with a preliminary assessment of the effect of the modification on the existing safety assessment of the plant. In cases where the Council determines that further full submissions are required these shall follow at stage 2 as identified in the appendix and shall consist of details concerning design, expected performance and fitness for purpose of the system, sub-system, equipment or component. A detailed assessment of the effect of the modification on the existing safety assessment of the plant must then be submitted together with the appropriate Licence Change Request at stage 3 as identified in the appendix.

2.0 MODIFICATIONS TO SYSTEMS AND EQUIPMENT

The list given hereunder gives specific instances of modifications that require prior approval by the Council. It should be noted that any other modifications that could affect the existing safety assessment of the plant also require prior approval by the Council.

- 2.1 Modifications to any operating system which may affect the frequency of occurrence of an initiating event that requires the functioning of the safeguard and protective systems as identified in the Safety Analysis Report. These initiating events include loss of coolant accidents, malfunctions and pipe breaks in the chemical and volume control system, loss of electrical supplies, loss of the capability for residual heat removal, steam line breaks, secondary transients, fuel handling accidents, spent fuel pool accidents, loss of the ultimate heat sink and pressure vessel failure.
- 2.2 Modifications to any safeguard and protective system designed to mitigate initiating events given in 2.1 above as identified in the Safety Analysis Report, referred to in the Nuclear Licence NL-1.

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<p>2.3 Modifications to any safety support system which directly affects the correct operation of the systems identified in 2.1 and 2.2 above as identified in the Safety Analysis Report, referred to in the Nuclear Licence NL-1.</p> <p>2.4 Modifications to fuel handling equipment.</p> <p>2.5 Modifications to fuel assemblies.</p> <p>2.6 Modifications to the reactor core and internals (including the Control Rod Drive Mechanism).</p> <p>2.7 Modifications to any physical security system.</p> <p>2.8 Modifications to any civil structure that could, through its own failure, affect the probability of failure of the systems and equipment identified in 2.1 to 2.7.</p> <p>2.9 Modifications to any packaging for the transport of radioactive material requiring Competent Authority approval.</p> <p>2.10 Modifications to any system associated with the processing and control of effluents discharged from the site.</p> <p>2.11 Modifications to any system associated with the processing and control of radioactive waste.</p> <p>2.12 Modifications to any system or component providing containment or shielding of nuclear hazard material whose modification could impact on occupational exposure.</p> <p>2.13 Any modification the execution of which will give rise to occupational exposure in excess of 250 man mSv.</p>			

