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MINUTE PAPER

REFERENCE: 15/6/26

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SM

For information STE

MARSIK 400Hz POWER FILTERS

Reference: Marsik Building Works Co-ordinating Committee
Minutes, 10 October 1984.

1. Item 1.13 of the reference tasks SE to provide a written recommendation covering the use of low pass filters in the 400Hz Neutral Conductor to MARSIK.
2. This minute confirms advice provided verbally by SE and staff at an earlier date. The issues are:-
 - (a)
 - (b) Use of a filter in the Neutral conductor introduces a finite probability of a Neutral open circuit, should the filter fail. Resultant electrical hazard to staff and equipment within the enclosure could be significant, dependent upon the 3 phase load balance within the enclosure.
 - (c) There is no point in spending money on a filter that is neither required nor desired on technical grounds. I understand that deletion of such filter(s) would accrue savings of the order of \$12K.
3. Accordingly I recommend that Neutral filtering be deleted from the MARSIK design requirements and that the installation be effected in accordance with para 2(a) above.
4. I understand that if this recommendation is accepted, AP will address separately any residual question of earth conductor insulation rating and removal of other redundant neutral filters.

SE

17 October 1984