

Operation of the Daresbury Synchrotron Radiation Source with Reduced Vertical Aperture,

J.A. CLARKE and H.L. OWEN, CLRC Daresbury Laboratory, Warrington, WA4 4AD, UK - The 2 GeV Synchrotron Light Source at Daresbury Laboratory already contains two superconducting wigglers and a permanent magnet undulator. Three additional insertion devices have been proposed as an upgrade to the facility. The source properties of these devices depend critically upon the smallest vertical aperture which can be allowed. Operation of the SRS with reduced vertical aperture has been studied in detail: aspects such as lifetime, injection and ramping have been assessed. This paper presents the conclusions of these studies, which allows a specification of the new devices.