



30 June 2016

Authorised Examiners (Lifting Equipment)

SAFETY CIRCULAR ON TESTING AND EXAMINATION OF "FLOOR CRANES"

"Floor cranes", as shown in figures 1 and 2 below, are commonly used in the workplace especially in the construction sector for the installation of external curtain wall such as glass window panels. Such "floor cranes" are deemed to be lifting machines and they shall not be used unless the cranes have been tested and examined by Authorised Examiners (AE), and issued with signed certificates of test and examination. "Floor cranes" should be classified under the classification code of 699-Other Mobile Cranes n.e.c.



Figure 1



Figure 2

Testing and Examination of "floor cranes"

2 These cranes should be tested and examined as a whole system (and not just individual component such as the winch). During such examination, AEs have to review and satisfied that such cranes are properly and adequately designed and is safe for its intended use. As these cranes are typically deployed to lift loads from the exterior of the building, the design shall take into account, among others, the effect of wind loading on its stability so that the cranes would not fall off from the edge of the building.

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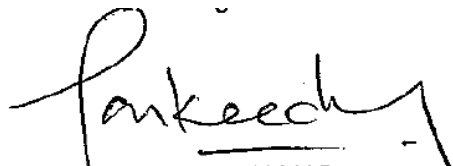
3 AEs are also required to conduct tests and examination to ensure that the cranes are without defects and functioning properly. This should also include verification that the crane is manufactured in accordance to design. The conditions of safe use, such as the maximum safe working load and the number of counterweights required, are to be clearly stated in the certificate of test and examination.

4 AEs should not certify that the crane is safe to use if you have doubt on its safe design and usage.

Reminders to AEs on carrying out testing and examination

5 We would also take this opportunity to remind AEs that during the conduct of testing and examination of any statutory equipment, AEs must exercise due diligence and not accept an inadequate or unsafe design of the equipment only on the basis that it has been previously issued with a certificate of test and examination. AEs should also carry out such test and examination personally and the appointment of a proxy / another person to conduct inspection on behalf is not allowed. Last but not least, AEs are also reminded that all certificates of test and examination (for lifting machines, lifting appliances and lifting platforms) have to be issued via Ministry of Manpower's iOSH system.

6 For further clarification on the matter above, you can contact us at mom_oshd@mom.gov.sg (please attention to Er. Liew Wan Sein).



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