



SAFETY ALERT



JKKP/DOSH

ACCIDENT OF TOWER CRANE DUE TO STRONG WIND



Recently, an accident had occurred involving parked tower crane. The incident occurred on Sunday due to strong winds when the crane was not in the operation. The investigations found the crane failed to slew during the strong wind and caused very high load on the boom structure and subsequently fell to the adjacent building. Hence, these steps should be followed to avoid the same occurrence:

- a) Owners and Competent Firm (FYK) shall ensure that the brake release mechanisms of the tower crane are checked, inspected and maintained in accordance to manufacturer manuals;
- b) Instructions and training shall be provided to crane operators and maintenance worker on proper inspection and maintenance methods;
- c) Responsible person (OYB) from Competent Firm shall ensure that crane operators and maintenance workers carry out their work according to manufacturer's manual where the tower crane is placed in a free state to slew when parked and not in operation;
- d) The crane operator shall ensure that the tower crane is parked at the appropriate radius and angle as specified by the crane manufacturer;
- e) Competent Firm shall conduct periodic inspection of the brake release mechanism whenever the crane is erected;
- f) Owners and Competent Firm shall ensure the latest information from the manufacturer related to adjusting and fixing the brake release mechanism.

References

- Laporan Awal Kemalangan Kren Menara
- <http://www.hse.gov.uk/safetybulletins/tower-crane-slew-brakes.htm>
- <http://www.hse.gov.uk/safetybulletins/luffing-jib-tower-cranes.htm>