

「升降機遙距監控系統」試點計劃

Pilot to Test Remote Lift Monitoring System



機電署與承辦商的團隊緊密合作，應用最新的遙距監控技術，為升降機進行維修保養。試點計劃將有助業界提高服務質素。

EMSD and the contractor's teams work closely together to apply the latest remote monitoring technology to lift maintenance. The pilot scheme will help the trade improve service quality.

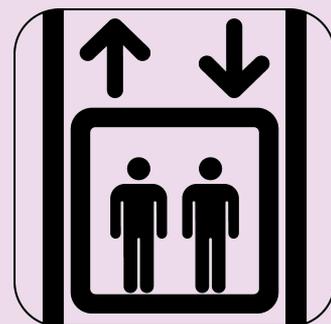
有見乘客對升降機安全及優質服務的要求不斷提高，機電工程署率先引進在日本廣泛應用的「升降機遙距監控系統」，並在2014年11月開展為期一年的試點計劃，測試該系統在香港的使用成效，冀能提高升降機的效率，減少操作故障與檢修時間，讓乘客享用更安全及便捷的升降機服務，從而把升降機的維修保養提升到新的更高水平。長遠來看，我們也希望新系統能把實地檢查和預防性維修次數，在個別的場地由每週一次續步減至每月一次，增加升降機使用效率，提升服務質素。

我們在順利紀律部隊宿舍進行有關試點計劃。順利紀律部隊宿舍共分八座，我們只在其中四座的升降機內裝置了「升降機遙距監控系統」，並把這些升降機的維修數據，例如停機時間，與另外四座並無裝置遙距監控系統的升降機作出比較。

「升降機遙距監控系統」的操作：在每部升降機內安裝了一個內置多個感應器的系統，24小時持續監測升降機的操作情況，並收集數據，例如開門速度、平層距離和制動系統表現等。這些實時數據會持續傳送到升降機承辦商的中央控制中心。工程師在中央控制中心內分析受監控升降機的數據，包括故障資料（如有）。系統一旦偵察到有故障，便會通知工程師，由工程師安排維修員工立即前往修理。

透過持續監控升降機的「健康」狀況，該系統也可協助工程師確定進行預防性維修的最佳時間，同時防患未然，在升降機出現故障前先行把問題找出並作出糾正，從而減少升降機的停機時間。

我們最近完成的試點計劃中期檢討，已顯示「升降機遙距監控系統」在提高維修效率方面有一定的成效，而整個試點計劃將於2015年10月底完成。



To meet the ever rising passengers' demand for safe and quality lift services, EMSD has taken the lead to introduce a remote lift monitoring system already well adopted in Japan. We began in November 2014 a one-year pilot scheme to test the effectiveness of the monitoring system in Hong Kong, with the aim of improving lift efficiency, reducing operation down time and trouble-shooting time, whilst enhancing passenger safety and convenience, so the new system will hopefully take our lift maintenance service to a new level. In the long run, we hope it will help reduce the frequency of on-site inspection and preventive maintenance visits, from weekly to monthly, for increasing the lift service availability as well as enhance service quality.

The pilot scheme was undertaken at Shun Lee Disciplined Services Quarters which has eight buildings. A remote monitoring system was installed in four buildings. Maintenance results, like down time of the lift operation, will be compared with lifts in the other four buildings not covered by the scheme.

How does the remote monitoring works. Inside each lift, there is a panel installed with many sensors, which continuously monitor the lift operation conditions and collect data, such as door opening speed, levelling distance and braking system performance. The real-time data are sent to the contractor's Central Control Centre (CCC). Engineers at the CCC analyse the data, and fault information if any, arising from the lifts monitored. Upon the spotting of a fault by the system, engineers are alerted so they can send technicians for immediate repairs.

With the "health" condition of the lifts constantly being monitored, the system also helps engineers determine the best timing for preventive maintenance, foresee and rectify problems well before lift failure occurs, eventually reducing the lift's down time.

The most recent interim review has already recorded some improvement on the lift maintenance efficiency. The pilot scheme will be completed at end of October 2015.