

## **Registration of Engineers in Singapore**

### **AIM**

The aim of this paper is to share on the rationale for registration of four branches of engineers in Singapore

### **BACKGROUND & CONSIDERATIONS**

2 In the past, Singapore used to register 12 engineering disciplines through the Professional Engineers Board (PEB). This would also include engineering in aeronautical, industrial, information technology, manufacturing, marine, naval architectural, production etc.

3 Currently, only engineers under the 4 prescribed branches i.e. civil, mechanical, electrical and chemical engineering are required to be registered with the PEB. Engineers outside these 4 branches can work in Singapore without the need for registration with PEB to carry out the engineering work. There is a total of more than 4000 PEs registered with PEB and about 2400 active PEs with practising certificate.

### **RATIONALE TO REGISTER ONLY 4 PE BRANCHES**

4 By law, there are 7 public authorities which require PEs to submit plans and certificates to them for approval. These authorities include Building Construction Authority, Public Utilities Board, Land Transport Authority, Energy Market Authority, National Environment Agency, Ministry of Manpower (MOM) and Fire Safety & Shelter Department.

5 In 2005, a Bill was passed to register professional engineers(PE) in only 3 construction-related disciplines of civil, mechanical and electrical engineering which covered the bulk of the PEs in Singapore. Back then, it was observed that very few engineers in non-construction related in the non-construction related disciplines which accounted for only 4% of the total registered PEs.

6 In 2017, the fourth branch of PE in Chemical Engineering was introduced to support the implementation of the safety requirements for Major Hazard Installations (MHIs) regulated by MOM. MHIs comprise petroleum refining, petrochemical manufacturing facilities, chemical processing plants and installations where large quantities of toxic and flammable substances are stored or used. Part of PE's roles is to manage risks associated with major accident hazards potential off-site consequences and see through the implementation of mitigation measures.

### **CONCLUSION**

7 PEB's Mission is to ensure public safety by setting and maintain high standards for registering of PEs. As such, the role of PEB is to register the 4 branches of PEs to support the regulatory submission to the 7 technical government agencies. Provisions are in place for other disciplines to be regulated in the future, should the need arise.

8 For ACPECC's information

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