



# ALTAIR ENGINEERING INSPECTIONS PTE LTD

**11. Project Name:** Singapore Flyer

**Client:** Straco Leisure Pte Ltd

**Project Year:** 2018-2019

**Description**

- We were asked to develop a technique to detect fatigue cracking in Shafts. This project involved demonstrating to BCA authorities on the technique used and its efficiency. We have developed a technique which involved designing a special scanner to remove manual errors and accurately predict the cracks arising from the thickness changes in shaft. The shafts are approximately 1,4meters long.
- Inspection scope-CS wheel shaft; Thickness-1.4m
- Procedure & Technique developed with standard calibration & validation blocks fabrication.
- Validation of procedure, technique & operator qualification was done successfully.
- Periodic monthly inspection was done to all 12Upper & 12 Lower shafts successfully.
- Onsite Inspection activities were witnessed by Starco representatives & Inspection data & Report was reviewed & approved by govt authority to extend its safe operation.
- Job Ref-D1661, D1663



**Person Involved:**

Procedure/Technique Sheet: Shaik Khaja Mohiuddin/Siraj Hameed Masroor/Mohsin

Technique Qualification: Ganesh/Martin/Meera/Aziz

Field Inspection: Ganesh/Martin/Meera/Aziz