

## PROJECT FILE:

St Paul's Cathedral Dome Access Platform Removal (Internal)



### General:

**St. Paul's Cathedral, Sir Christopher Wren, Architect, 1632**

**- 1723.....**Required the installation of a suspended scaffolding platform to enable specialist restoration experts to carry out tactile survey of the infamous artwork forming the main feature of the Dome itself.

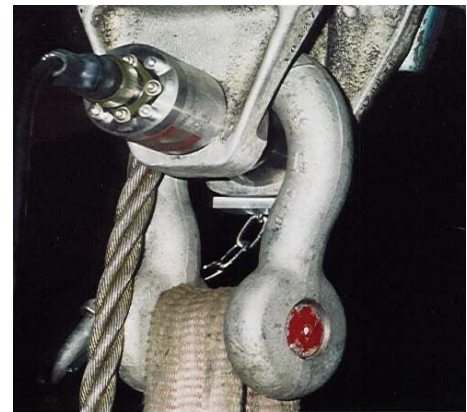
The scaffolding platform was constructed by the scaffolding contractors SGB and raised into position using hand operated hoists situated on the special scaffolding support structure at rim of the Dome.

Due to the type of hoist being used the scaffolding company took longer than anticipated to raise the scaffolding platform.

Once the work had been completed it was important to remove the scaffolding platform in one night & under no circumstances could it be left suspended once the lowering operation had begun.



4 way power pack, control valves & digital load indicators



Hoist fitted with load cells

ALPS were contracted by SGB to design, supply and implement the special Lifting & Lowering system required to accomplish this task.

As the suspension system was situated on the rim of the Dome it was vital that all loads were monitored and passed to the Cathedrals engineer for assessment prior to lowering.

For this purpose 4 no. special load anchor pins were designed manufactured and installed as part of the special Lifting and Lowering system.

Due to the nature of the structure it was imperative that all four hoists and their anchor points at the rim of the Dome were kept as equal as possible in order to accomplish uniform loading.

Each hydraulic Hoist was protected by an independent Safety Devise and Safety wire rope. (8 ropes in all) 4no. 3200Kg hoists & rams: 4no. 3000Kg safety blocks: 8no. 80M x16.3mm steel wire ropes: 1no. electrically operated hydraulic pump c/w control valves & 4no digital readout load monitors were used for this special application.

ALPS provided all required on-site Industrial Abseiling operatives to rig and operate the equipment. Rigging and trials took one night and platform lowering was carried out in a few hours the following night.

For further information regarding special Access, Lifting & Safety applications please contact ALPS



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