



ESDU SPF-M3-2

Major effort on rig design

Unamended
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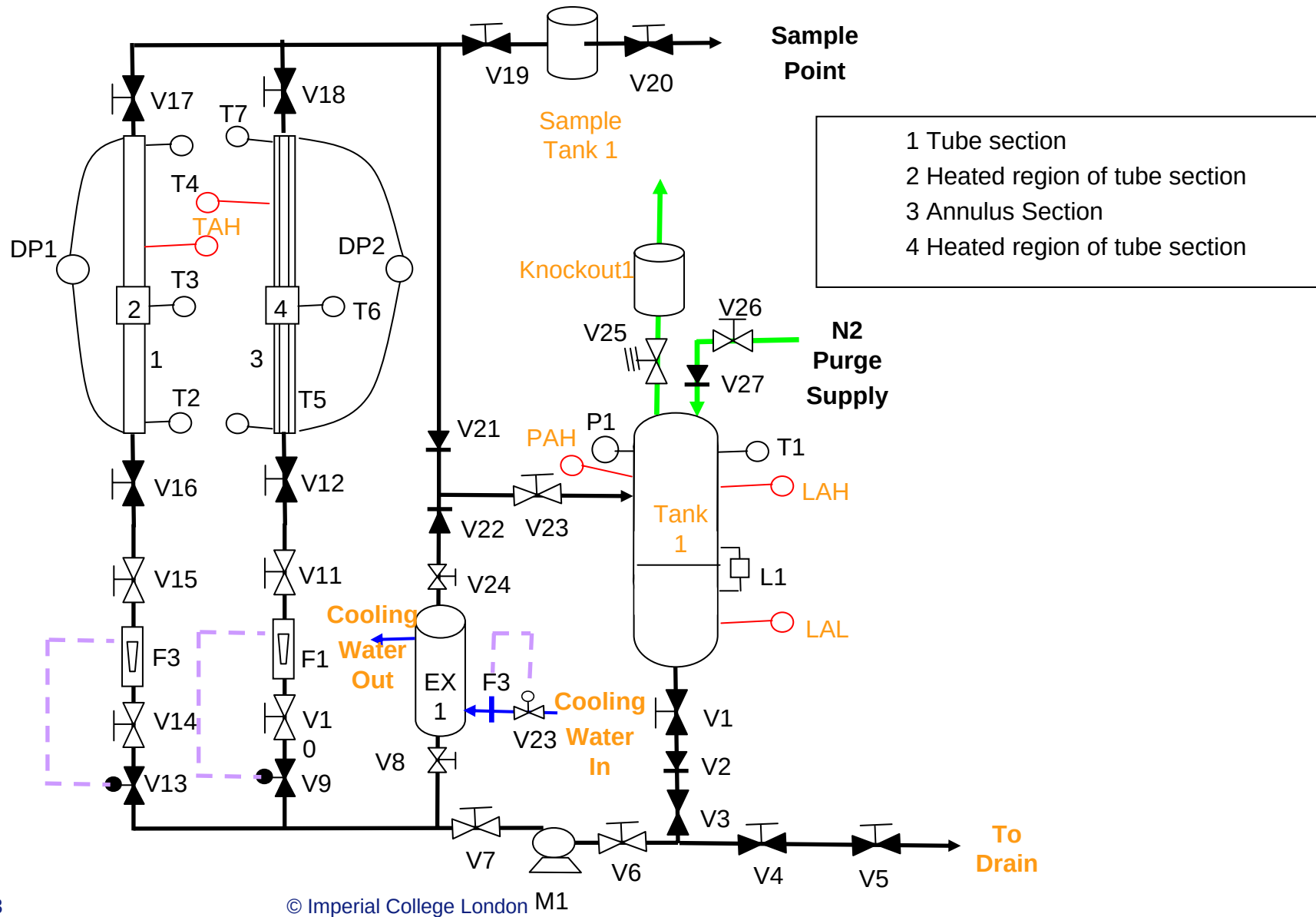
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Major effort on rig design

Sub-Project F Annulus Flow Tests
Dr. Colin Hale
28th March 2006

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FOULING MEASUREMENT TEST LOOP



RIG DESIGN ISSUES

- TEST SECTION
 - ANNULUS
 - TUBE
 - **BOTH**
- ORIENTATION
 - HORIZONTAL
 - **VERTICAL**
- HEATING LOCATION
 - **EXTERNAL SURFACE**
 - INTERNAL SURFACE
- HEATING TYPE
 - INDUCTION CARTRIDGE (ANNULUS)
 - INDUCTION RING (TUBE / ANNULUS)
 - **JOULE HEATING (TUBE / ANNULUS)**