



## Service Overview: Mechanical & Electrical

TSP has a dedicated M&E team with extensive experience and expertise in the design of MEP systems across the following sectors: Industrial & Power, Nuclear, Rail, Education, Commercial and Retail.

TSP is experienced in M&E building services within offices, stations and trackside buildings and specialises in new and refurbished stations, train servicing and maintenance depot requirements. We undertake designs in HV, LV distribution and signalling supplies, both general and rail specific. Our experience in mechanical designs ranges from air conditioning, ventilation, heating and piped services to powered swing bridges.

Innovation and sustainability are essential to any project; TSP's M&E team work towards integrated solutions that meet the needs of end users and ensure practical maintenance for the life of the installation. We have in-house expertise in the various designs of 400V and 650V trackside power installations and for electric point heating installations, including all types of rail, points and crossing layouts, including 3rd rail locations. TSP also has experience of providing many bespoke design solutions for PSP's, FSP's and equipment buildings.

TSP provides wide-ranging expertise to meet client requirements, undertaking site surveys and all design stages from feasibility and approvals through to construction. Design deliverables include detailed specifications, site layout drawings, circuit distribution schematics, control wiring diagrams, testing and commissioning plans, EMC studies and installation and staging methodologies.

### Major projects include:

- **Nottingham Station** - M&E Design Services - TSP reintroduced the concept of nighttime cooling/thermal mass to provide passive cooling to this listed building
- **Reading Station** - HVAC Services, New Vertical Transportation to Transfer Deck & Entrances (design of 14 lifts and 19 escalators) Station lighting package
- **Energy from Waste Facilities** - M&E design services for 6 facilities across the UK including Oxfordshire, Suffolk and Staffordshire