

■ ■ ■ ABOUT TSA

TSA was established in 1997 by David Smith & colleagues and have been providing first class building services consultancy services to all levels of clientel from large multinational banking corporations to private landlords ever since.

Our principal Work Activities are:

- Residential M&E Design Services
- Commercial M&E Design Services
- Facilities / Property Management Consultancy
- Electronic Record Information
- Health & Safety/ Authorising Engineering
- Building Services Surveys & Audits
- Building Services Energy Audits/savings

However we offer services in many other areas including:

Heating, ventilation, air conditioning, lighting, power, standby generation, electrical systems, UPS, HTHW, VAV, refrigeration, BMS, controls, heat recovery, LEV, maintenance, CAFM, property Health & Safety, statutory compliance /testing, Permit to Work systems, Safe Systems of Work, audits, training, monitoring, surveys, energy benchmarking, commissioning, handover, contractual disputes, electronic O&M Manuals, CAD drawings, property records & Safety Files

Resources & Support

This project will be resourced as follows:

■ ■ ■ David Smith



Project Director (overall project design and coordination responsibility).

- BSc(Hons)
- CEng FIMechE FCIBSE Tech IOSH LCC

■ ■ ■ James Beal



- CAD
- IT Services
- Pulse & Surveying
- BA(Hons) Architectural Technology

Engineering Services Designs, Calculations, Drawings and Project Management

To suit project needs - we have a range of resources ranging from CAD in India/ to trusted Chartered Engineers in all Building Services disciplines used on a 'per job' basis.

■ ■ ■ www.tsaservices.co.uk

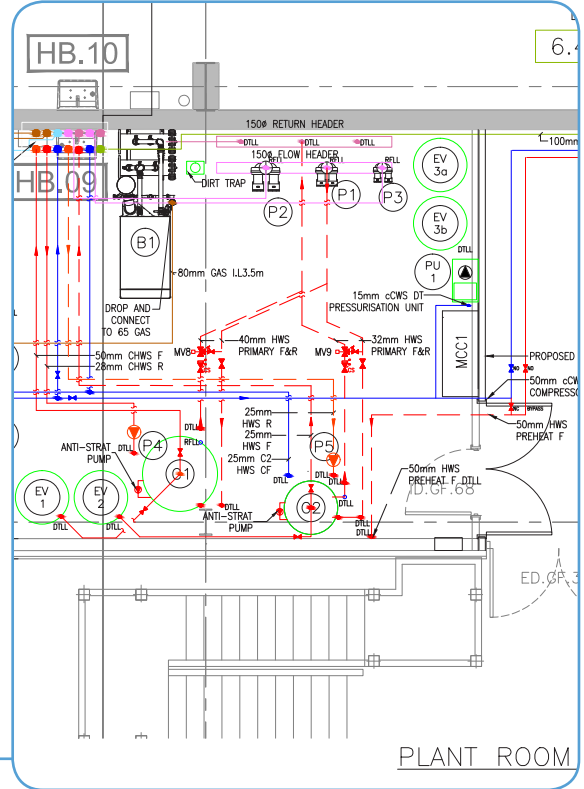
HOW WE WORK

We provide Independent solutions within all Building Services areas. David Smith heads all project work and has 40 year's experience within the industry. He is supported by a team with high-end skills in CAD & Engineering solutions.

We use our **design** and **operational expertise** to ensure that the optimum solutions are delivered, tailored to our Clients' needs. We **emphasise conceptual and feasibility** stages to ensure that all options are considered.

We Value Engineer our proposals to actively develop **value-driven solutions**. We encourage feedback from Clients as part of our **Quality Procedures**.

Example of.....



Example of.....

We have completed numerous **prestigious projects** with **repeat business** from our Clients, which has demonstrated satisfaction & commitment.

We treat each project with the same degree of importance regardless of value, and are happy to accept **"out of the ordinary"** challenges.

We work as a team in the interests of the project. We do not have a contractual approach and work with an open mind representing the Client's best interest.

Our experience in **Design, H&S, FM and Electronic Record Information** are strengths not normally found within an M&E consultancy, which bring added value to all our projects.

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■ ■ ■ AUTHORISING ENGINEERS/ AUTHORISED PERSONS

AE AP Work

TSA provide independent discipline-specific Authorising Engineers to take responsibility for the effective management of high risk systems within buildings such as high voltage or dual-fed supplies, steam/hthw, hospital ventilation, lifts and confined spaces, in compliance with:

- Ministry of Defence Standards (JSP375)
- Health Authority Standards (HTM06-02, 06-03, 03-01)
- Client Specific Standards



- We review your existing procedures, develop Safe Systems of Work, audit your operational procedures and appoint suitable Authorised Persons to manage the risks on site.
- We undertake audits, surveys, compile SOPs, and provide advice and support.
- We have assessed over 230 APs across 70 sites.

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■■■ SERVICES PROVIDED

TSA provide specialist health and safety services for industrial, commercial and public sector buildings. We understand the hazards and risks created by buildings and their M&E components.

TSA employ chartered engineers that are NEBOSH certified and act as CDM Principal Designers and Authorising Engineers for high risk M&E services and confined spaces.

Areas of work cover (but are not limited to):

- H&S File Authoring
- Safe Systems of Work
- Confined Spaces
- Sub-contractor Assessments
- Compliance Audits
- Risk Assessments
- Operating Procedures
- AP Training



■■■ We offer a client focussed approach to providing safe systems of work that complies with legislation.

■■■ www.tsaservices.co.uk

■■■ SERVICES PROVIDED

TSA have extensive experience in the housing market, ranging from high end residential refurbishments to multiple flat occupations. We can deliver 'best fit' design solutions in all areas of building services including;

- Heating systems
- Hot water systems
- Ventilation systems
- Lighting designs
- Packaged plantrooms
- Pipework design
- Power design
- Air conditioning
- Heat recovery
- Part L&G compliance
- Environmental noise compliance
- PV solar thermal Panel designs
- External lighting
- Daylighting
- Thermal insulation
- Underfloor heating
- Water boosting
- Water softening
- Fire & security alarms
- Access control
- Housing automation
- DALI lighting systems
- Energy conscious designs
- Swimming pool/ gym design
- Summertime temperatures
- Natural ventilation calculations



■■■ We provide all services from initial feasibility to handover. We work with the client at all stages of the project to ensure that their interests are best served by the proposed design.

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COMMERCIAL DESIGN



Angels The costumers

16,000 m2 refurbishment: 4,000 m2 Office Block with 12,000 m2 Warehouse behind. High quality ceiling mounted FCUs. Restaurant, Kitchen, Meeting Rooms. Textile Sock Ventilation with displacement cooling in Warehouse complete with 8 large gas-fired AHUs incorporating heat recovery thermal wheels.



Arytza Bakery Dunstable

Food processing production plant making buns for McDonalds. Design & construction drawings of al Building Services installation



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■ ■ ■ **RETAIL**



Harvey Nichols



Design / Management of basement refurbishment.

AV Rossini Mount Street



M&E Design for
Luxury menswear shop
refurbishment in Mayfair,
London.



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SERVICES PROVIDED

Technical Support Associates provide design and audit services for lifts including geared, hydraulic and machine-room-less options.

We also provide Authorising Engineering Services for Lift Installations including AP appointments and AE Audits



Kettering Court

2 gear-above traction lifts
New car, controls, architraves,
landing gear and upgrade to
BS EN 81 & BS 5655

Laxton Court

2 gear-above traction lifts
New car, controls, architraves,
landing gear and upgrade to
BS EN 81 & BS 5655



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