

Services Provided

TSA have considerable experience in working with various Local Authorities, NHS Trusts, Schools and Housing Associations in undertaking the design of Mechanical and Electrical Services and in providing specialist advice and support services such as:

- CHP/Photovoltaic feasibility studies
- Fixed electrical testing
- Asset surveys
- Property condition surveys
- H&S advice – to ensure that Statutory obligations are fulfilled
- Planning Supervisor duties

Energy Surveys

TSA are registered with the Carbon Trust (Action Energy) to undertake energy surveys of various properties. This service is provided free of charge to Clients as TSA survey fees are paid by the Carbon Trust. Please refer to separate document.

Design Management

TSA are experienced in the management of projects where design is undertaken by a third party consultant or Design-Build Contractor. We have worked in conjunction with major Blue-Chip Clients as their design representative to:

- Establish the project brief setting the scope of the project, the required design standards to be adopted and the design deliverables required
- Meet with the project design consultant to discuss the brief and ensure that a common understanding is shared by all on the required deliverables
- Comment on the key stage design deliverables produced by the design consultant
- Work with the Client at all stages of the project to ensure that their interests are best served by the proposed design

Electronic Record Information

TSA have developed an electronic record information system specifically related to buildings which facilitates easy control and management of all property information including O&M Manuals and Record Drawings using conventional PC software. There are no hidden costs for specialist software: we use Adobe, AutoCAD, Word, Excel, Access etc. all viewed through your internet browser. There is a comprehensive search engine to locate the information.



M&E Services Design

The majority of TSA work relates to Building Services design and Project Management. TSA have extensive experience in new-build and refurbishment projects including office

LOCAL AUTHORITIES, NHS TRUSTS, SCHOOLS & HOUSING ASSOCIATIONS



developments, industrial premises, airport facilities, schools, residential, data centres, boiler /switch panel replacements, plant replacements, etc.

We provide services from initial feasibility, options appraisal, performance monitoring, to design & specification production, tender analysis, cost control, planning supervision, project management, handover, and defects inspections. Project work has included:

- AHU replacements
- Chiller replacements
- Condensing Boilers & optimum radiator design
- Fan coil unit design
- HTHW boiler replacements
- Lighting design
- CHP schemes including micro CHP
- HV & LV Power Distribution
- Electrical ancillaries design e.g. fire alarms, PA, security etc.
- Resilience, redundancy, maintenance studies
- Textile ventilation
- UPS appraisal /selection
- VAV & VAV design

The following project profiles serve to demonstrate some of the recent design projects undertaken by TSA in this field.

Project: RUSPER COURT

TSA Role: Full design duties for Mechanical & Electrical Services & Planning Supervisor

Project Outline: Feasibility study into bio-fuels, CHP and Photovoltaics. Design and implementation of new heating installation including condensing boiler plant & micro-CHP plant plus new heating to 70 Flats whilst maintaining heating to the flats.



Refurbishment of main electrical intake riser and sub-mains installation whilst maintaining supplies to tenants.

Project value - Electrical £35k
- Mechanical £400k

Summary: Compliance with legislation, design calculations & drawings, tender specification, energy grant applications, Cymap CADLINK design, project management, cost control, supervision, handover

Client Contact Details: Lambeth Housing
Colin Monk
London Borough of Lambeth
Hambrook House
Pordon Road
London SW2 1RP
Tel: 020 7926 3585

Project: St GEORGES SCHOOL

TSA Role: Full design duties for Mechanical Services & Planning Supervisor

Project Outline: Feasibility study and phased implementation of heating refurbishment including condensing boiler plant & LPHW installation.

Initial analysis included upgrade recommendations of building fabric which plays an important role in any heating project.

Project value – £300k.

Summary: Compliance with legislation, design calculations & drawings, tender specification,

Client Contact Details: St Georges School
Jenny Hasnip
St Georges Lane
Ascot
Berkshire
SL5 7DZ
Tel: 01344 629911



Project: UXBRIDGE HOSPITAL FEEDER PANEL REPLACEMENT

TSA Role: Electrical services design

Project Outline: TSA were appointed by Barnet Primary Care Trust to undertake the design of the electrical services associated with the replacement of an existing feeder pillar.

TSA duties included detailed site survey, production of tender package comprising drawings and specification, project planning and programming, tender appraisals, site witnessing.

Project programming was a vital element as it was necessary to maintain electrical supplies to the hospital with minimal downtime.

Project value – Electrical £60k

Summary: Upgrade and refurbishment of existing electrical infrastructure whilst maintaining supplies

Client Contact Details: Afzal Khan
Barnet Primary Care Trust
Edgware Community Hospital
Burnt Oak Broadway
Edgware
Middlesex HA8 0AD
Tel No 020 8732 6882



Project: COUNCIL OFFICES REWIRE

TSA Role: Electrical services design

Project Outline: TSA were appointed by South Bucks Council to undertake the design of the electrical services associated with the rewire of their Slough Council offices.

TSA duties included detailed site survey, production of existing record drawings, production of tender package comprising drawings and specification, project planning and programming, tender appraisals, site testing.

Project value – Electrical £100k.

Summary: Electrical services design and project management within an occupied building

Client Contact Details: Alan Munro
South Bucks District Council
Council Offices
Windsor Road
Slough
Berkshire SL1 2HN
Tel No 01753 676265



Project: FIXED ELECTRICAL TESTING

TSA Role: TSA were appointed by Circle 33 Housing Trust to undertake independent audits of Periodic Inspections being carried out by a number of contractors on the fixed electrical installations within their housing stock and provide ongoing technical support and assistance for a range of electrical services.

Project Outline: TSA worked together with Circle 33 and various contractors to develop a common testing standard including appointment criteria for contractor engineers, certification guidance, use of fault codes etc.

TSA assisted in auditing the tests undertaken by the contractors both as a desktop exercise and via sample site tests.

TSA have now been awarded the contract by Circle 33 to directly manage and audit the ongoing Periodic Inspection programme. In addition TSA manage the testing and remedials budgets on behalf of Circle 33; manage the contractor appointment for resultant remedials work and carry out audits of completed work to check quality and compliance.

Summary: Demonstrates one of the unique range of services TSA can offer

Client Contact Details: Circle 33 Housing Association
David Wilson
United House
North Road
London N7 9DP
Tel No 020 7447 5367