

Schedule 5

Technical Specification

For the Provision of Maintenance Services Issued by
North Cumbria Integrated Care NHS Trust (NCIC)

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Maintenance Contract

**Starkstrom Theatre Pendants, IPS (Isolated Power Supply) and UPS
(Uninterruptible Power Supply), TCP (Theatre Control Panels) and Operating Lights
under HTM 06-01 PA23 for a hospital environment**

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Introduction

This document provides full details of the Client's requirements for the provision of maintenance of Starkstrom IPS and UPS systems.

You are required to complete all sections in the accompanying Invitation to Tender (ITT), and provide pricing in the accompanying Pricing Schedule.

All equipment is to be maintained in line with the following Specification.

Please note any bids received that deviate from any aspect of this Technical Specification will be classed as variant bids, and bidders may be excluded from the procurement process.

Contract overview

NCIC "Client" is seeking to contract for Starkstrom Theatre pendants, IPS, UPS, TCP & Operating Lights to ensure their equipment is kept in a safe and reliable working order and operating with optimum efficiency.

The winning contractor must provide the service in accordance with the original equipment manufacturers (OEM) recommendations and the requirements set out in this Technical Specification.

Scope

This specification covers the maintenance and testing of Starkstrom Theatre pendants, IPS, UPS, TCP & Lights for Group 2 medical locations (e.g., operating theatres, ICU, interventional imaging suites) in compliance with **HTM06-01** for electrical services in healthcare premises. **BS7671** and **IEC 60364-7-710** for Group 2 medical locations.

1. Annual service visit to HTM and manufacturers test procedures during working hours
2. Weekends and out of hours will be charged extra
3. Dedicated Account Manager
4. User-training on request
5. Technical support helpline for enquiries
6. Eight working hour response for emergency callouts.
7. Parts and Labour included for all PPM activities
8. Parts and labour for call outs and faulty parts replaced during a maintenance visit to be charged in addition to the maintenance contract

The Client reserves the right to add or remove equipment if required during the contract term.

Applicable Standards

- Procurement Act 2023 (PA23) PA23: Project-specific compliance for electrical resilience and redundancy.
- HTM06-01 Electrical Services for Healthcare Premises
- BS7671 IET Wiring Regulations
- IEC 60364-7-710 Medical Locations
- UKCA Marking Requirements

Contract Overview

- **Theatre Pendants:** Type: Ceiling-mounted, pneumatically braked pendants for operating theatres.
- **IPS System:** Supplies isolated, monitored power to medical IT circuits, sustaining operation during a first earth fault.
- **UPS System:** Provides no-break power supply to critical circuits during mains failure, ensuring continuity until standby generators start.
- **TCP - Type:** Flush-mounted, membrane or touchscreen.
- **Operating Lights - Model:** LED surgical lights with adjustable colour temperature.

Theatre Pendants

Payload:

- S200 pendant is a light-duty model with a payload capacity of approximately 120 kg.
- S300: up to 180 kg.
- S400 up to 250 kg (standard) or 400 kg (heavy duty).
- S500: up to 250 kg (standard) or 400 kg (heavy duty).

Features:

- Modular service column for medical gases, electrical, data.
- 330° rotation, rise-and-fall facility.
- Colour-coded braking system.

Accessories:

- Shelves, IV poles, drawers, ventilator docking.

Isolated Power Supply (IPS)

- **Compliance:** HTM06-01, IEC 60364-7-710.

Features:

- Medical isolation transformer sized for theatre load.
- Integrated insulation monitoring and earth fault detection.
- TCP/IP web server for remote monitoring.

Safety:

- Alarm thresholds for insulation resistance.

- Surge protection and equipotential earth bar

UPS

Function: Maintain continuity of supply to IPS and life-support equipment.

Performance:

- Online double conversion UPS.
- No-break transfer within 0.5 seconds.
- Output power factor ≥ 0.9 .

Integration:

- Remote alarms linked to Theatre Control Panel and BMS.

Integration

- **Remote Alarms:** Combined IPS/UPS alarms displayed on Theatre Control Panel and integrated with BMS.
- **Web Monitoring:** IPS units with TCP/IP web server for remote configuration and email alerts.
- **Compliance with PA23:** Ensure essential circuits are connected to IPS/UPS via LV distribution boards.

Theatre Control Panel (TCP)

- Flush-mounted, membrane or touchscreen.
- Controls ventilation, lights, AGSS, IPS/UPS alarms.
- Displays temperature, humidity, elapsed time.

Operating Lights

- LED surgical lights with adjustable colour temperature.
- High lux output with minimal heat.
- Integration with UCV canopies and TCP.

Compliance:

- IEC standards for surgical lighting.

Testing

- Verify compliance with HTM 06-01 and IEC standards.
- Perform insulation monitoring tests and UPS autonomy checks.

- Integrate alarms with hospital network and validate remote monitoring.

Performance Criteria

Equipment must meet safety, reliability, infection control, and sustainability requirements. Lifecycle cost analysis should be provided.

Compliance Documentation

Supplier shall provide:

- UKCA Declaration of Conformity
- Electrical safety certificates
- Medical gas safety certificates
- Factory acceptance test reports
- Lifecycle cost analysis

Evaluation Criteria

Evaluation will consider:

- Technical compliance
- Warranty and service response times
- Cost and sustainability
- Delivery of service schedule

Lots

This contract will be awarded in a single lot.

Contract period

The contract will be for three years with the option to extend for two further years, commencing on 1st April 2026.

Location and sites

Name and address of sites where the contract will be carried out

- West Cumberland Hospital, Homewood Rd, Whitehaven CA28 8JG

Working hours

Normal working hours are 08.00 and 18.00 Monday to Friday.

PPM visits to be arranged out of hours to accommodate access to Theatres.

Contract Requirements and Level of Cover

The Client requires a pre-planned contract, with ad-hoc work and parts to be charged in addition to the fixed price contract.

Reactive call outs

Any reactive work which spans more than one day will be considered as a single job. The Client will only accept a call-out charge on day one. The Client will then be charged the hourly rate for the remaining hours / days to complete the works.

Response times

8 working hours for an emergency

Reporting a fault

If the contractor finds a serious fault Engineer to report to staff and contact estates on call. If the fault is minor or a recommendation this needs to be documented and reported to Estates for consideration.

Spare Parts

- Parts are chargeable under this contract in line with the rates supplied in the accompanying pricing schedule

Contractor Responsibilities

While on site the Contractor and its staff must comply with the requirements of the Health and Safety at Work Act 1974 and other relevant legislation, including regulations and codes of practice issued and with the Clients own policies and procedures.

All new Contractors attending site for the first time must go through a Maintenance Site Induction.

All Contractors must report to the Estates Office and sign in before commencing work during normal working hours. For out of hours call outs, the Contractor should report to the location of the unit where they will be met by an Estates Officer. Arrangements to be made for access to area where work is to be performed.

It is imperative all Contractors sign out before leaving site.

Visits to the locations are not permitted without the consent of the authorised officer.

All Contractors' employees who attend site shall be DBS checked by the Contractor.

Arrangements for parking will be made by Estates.

The Contractor shall provide its staff with a form of identification acceptable to the Client. This must always be displayed whilst on site.

Following the Client's site induction, the Contractor's staff will be provided with identification which must be worn while on site.

In the event the Contractor enters the hospital buildings then compliance with all current NHS/Hospital Covid guidelines is mandatory.

Contractor's Tools and Equipment

The Contractor shall provide all necessary transport and equipment, including but not limited to; tools, (if power tools are used, they must be pat tested and if required tools must be calibrated for accuracy) instruments, test kits, PPE, access equipment, temporary barriers and signage, and first aid equipment necessary to carry out the work safely and as detailed in the Control of Contractors documents.

Reviews

The Client requires an implementation meeting with the winning Contractor to be carried out at the start of the contract. This will include a site visit and induction.

The Client reserves the right to request ad-hoc review meetings. The schedule should be agreed at the initial implementation meeting and the contractor is responsible for contacting the Client to make the arrangements.

These will typically cover:

- Planned visit completion review
- Response and resolution times for un-planned work.
- Review and agreement of the value of any additional works

Invoicing and Payment Terms

The Client will raise an upfront order for the full contract duration and require invoicing after works.

Invoices must be clearly marked with the current purchase order number together with the name, area and location of the equipment/area worked on.

Any authorised repairs undertaken should be clearly marked as such on invoices with a full cost breakdown.

The winning Supplier must keep updated records of all spend incurred by the Client.

Total amount invoiced including breakdown of costs

Number of hours, whether in or out of normal working hours

Parts supplied including type and number

Details of technician attending

Reporting

A detailed report outlining all equipment must be completed after every service. Details must include all work carried out including any parts replaced and any recommendations. Any safety or quality issues should be immediately highlighted.

Hard copy service sheets (where available) should be left with the Client with an electronic copy emailed to the named Estates Officers within one week. Details of who needs to be sent an electronic copy will be provided at the site induction.

Service sheets should be signed by the Operations Manager or Operations Officer. If there are any issues, please contact the Estates Department.

Assets

Full details recorded in the accompanying Pricing Schedule.

Terms and Conditions

Bidders should be aware any contracts arising from this procurement process shall be subject to the NHS Conditions for the Provision of Services with Maintenance Schedule. A copy can be obtained from:

<https://www.procurementservices.co.uk/media/x5wkkzwg/nhs-terms-conditions-provision-of-services-po-version-pa23.pdf>