

1. Introduction:

This Construction Method Plan (CMP) has been prepared in respect of discharging Condition 4 of the planning permission associated with the proposed development located at Eastlands Primary Substation.

This CMP is based on measures to ensure legal compliance and established good management practice and includes the following:

- Measures to control noise and vibration;
- Dust suppression measures;
- Compound locations;
- Sheeting of construction vehicles; and
- Considered construction.
- A community consultation plan;
- Details of an emergency contact telephone number;

2. Project Description

Due to the imminent need for increased distribution capacity at Eastland's Primary Substation (100138) Electricity North West Ltd are planning to undertake an off-line construction of a new-build 6.6kV Switch House and T13 transformer compound. In order to facilitate these works there is a requirement to extension of the existing substation compound outside of its current operational boundary into an exiting storage facility.

Fig 1: Substation site location plan:



3. Project Location

The site is located at Manchester Regional Arena (The Etihad Stadium) off Rowsley Street, Beswick, Manchester, with nearest postcode M11 3JJ and Ordnance Grid ref SJ 86468 98677.

The substation is located off the end of Rowsley Street at the Junction of Edwin & Philips Park Road. Philips Park Road ends at the northern end of Rowsley Street where there is shared access gates with Manchester City FC. The current substation site is fully enclosed

within a 2.4m high electrified palisade fenced boundary.
The substation sits approximately 1m lower than the ground level of the stadia to the east and bordering the western site boundary is a high level stone retaining wall structure to the edge of the operational railway line.

Fig 2: Substation constraints plan:



4. Hours that construction may take place

The standard working hours for all construction activities will be from:

- 07.30 – 18.00 Monday to Friday;
- 08.30 – 14.00 Saturdays; and
- No works on Sunday, Bank or Public Holidays

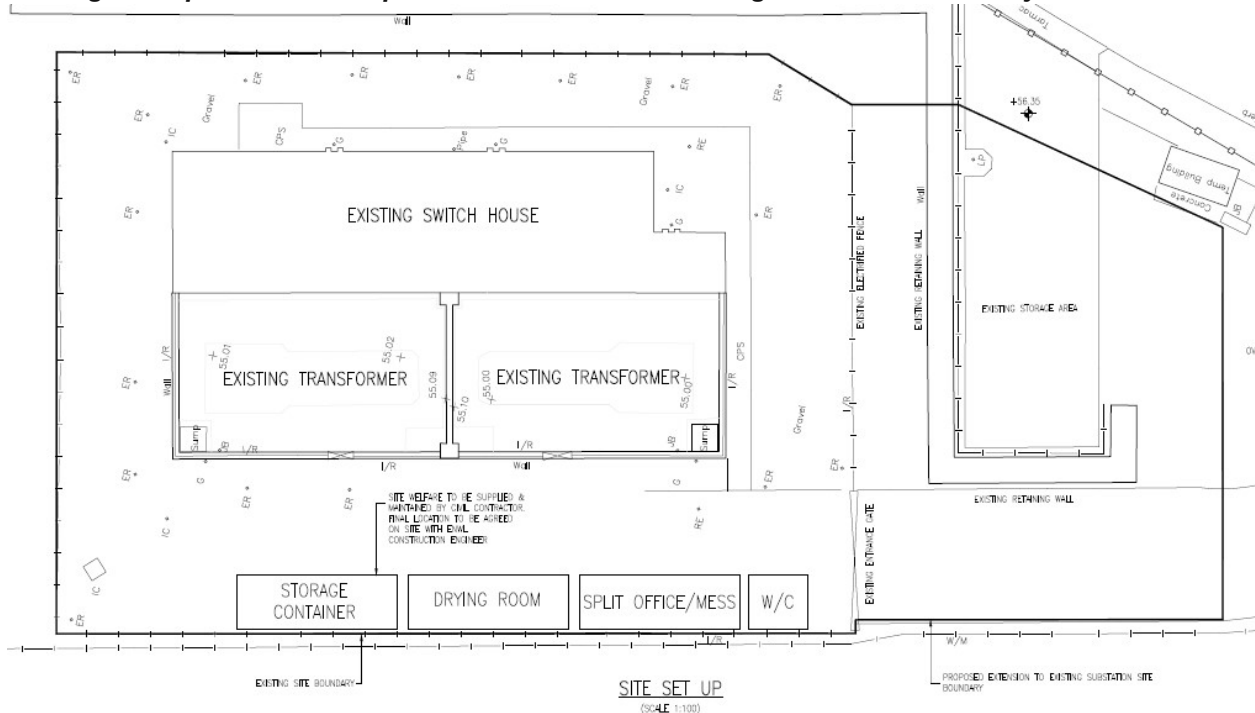
Any proposed changes to these working hours will need to be agreed in advance with Manchester City Council.

5. Site Establishment & Welfare Facilities:

Full welfare and site office provisions will be provided for the duration works to accord with Schedule 2 of the Construction Design & Management Regulations 2015.

These will be located within the defined site compound and positioned on an engineered hardstanding.

Fig 2. Proposed Site compound location within existing substation boundary



6. Control of dust & dirt emissions

During the works, there will be various activities which have the potential to generate particle emissions arising from dust and smoke.

Suitable dust monitoring and suppressing measures are to be operated throughout the construction phase to ensure that airborne dust moving towards the closest significant receptors are captured. In addition to monitoring, a number of other mitigation methods will be implemented to minimise the nuisance and impact arising from dust and smoke produced during construction. These include:

- vehicles carrying loose aggregate and workings will be sheeted at all times.
- regular inspection and, if necessary, cleaning of local highways and site boundaries to check for dust deposits (and removal if necessary). A road sweeper will be employed to keep all roadways on and adjacent to the site clear of mud and debris.
- minimise surface areas of stockpiles (subject to health and safety and visual constraints regarding (aggregates, sand and waste stockpiles) to reduce area of surfaces exposed to wind pick-up.
- where appropriate, windbreak netting/screening will be positioned around material stockpiles and vehicle loading/unloading areas, as well as exposed excavation and material handling operations, to provide a physical barrier between the site and the surroundings.
- where practicable, stockpiles of soils and materials will be located as far as possible from sensitive properties taking account of prevailing wind directions and seasonal variations in the prevailing wind.
- during dry or windy weather, material stockpiles and exposed surfaces will be dampened down using a water spray to minimise the potential for wind pick-up
- use of dust-suppression tools for all operations.
- Implementation of toolbox talk regime to inform site personnel of the measure to be employed.

Where possible, measures will be adopted to ensure that construction traffic travels minimal distances along sensitive routes (residential or congested roads) and those vehicles are kept clean and sheeted when on public highways. Where possible, large-scale vehicle movements will be timed to avoid peak hours on the local road network.

Action will be taken to minimise and control any nuisance arising from construction traffic by using measures such as controlling vehicle speed, wheel washing and keeping all site entrances clean.

7. Noise, and Vibration:

Construction activities which generate noise and vibration such as excavation works, cutting of materials, breaking out of existing surfacing's and plant movements will be reviewed and planned to minimise, as far as reasonably practicable, the potential nuisance caused by the construction works. Mitigation measures will be considered including low noise options, noise attenuation techniques and alternative methods.

The working hours for construction works will follow the Manchester City Council guidance, which includes standard working hours for noisy, disruptive and external works. Works will be undertaken outside of these hours where the works are internal to the building and will not result in noise or disruption to the surrounding Environment.

External work outside standard hours will be minimised, but where it is unavoidable will be agreed using the process set out in the relevant guidance.

The construction works will comply with *BS 5228: Noise and Vibration control on construction and open sites* and the following mitigation measures are likely to be adopted as follows:

- Modern, silenced and well-maintained plant will be used at all times, conforming to current British standards.
- Percussive plant will be avoided where alternative non-percussive plant is available for a given task.
- Equipment and vehicles to be shut down when not in use.
- Semi-static equipment is to be sited and oriented as far as is reasonably practicable away from noise sensitive receptors and will have localised screening if deemed necessary.
- Where possible, mains electricity to be used instead of generators.
- Percussive piling shall be considered where ground conditions preclude the use of other methods or where sheet piling is required for temporary works, and prior agreement should be sought from the local authority.
- Burning equipment will be used in preference to cold cutting where possible.
- Where possible, crunchers should be used in preference to pneumatic breakers. Where breakers are used, they should be of a suitable size for the task.
- Concrete pours (for which an extension of working hours may be necessary) will commence as early as possible within normal working hours so that activities can be completed within normal working hours as far as possible.
- Where necessary, any permanent noise barriers (i.e. earth bunding, site hoardings etc.) would be constructed as early as possible in the construction programme.
- Cutting operations or other noisy tasks will be minimised through off-site fabrication

where practicable. Localised shielding of noisy operations may be required.

- Wherever practical, noisy works, which are audible at the site boundary, will be undertaken during the following hours (unless otherwise agreed with MCC) - between 07.30 and 18.00 Monday to Friday and between 08.30 and 14.00 on Saturdays.
- The hours of operation will be restricted as indicated in Section 4.
- Routes and programming for the transport of construction materials, fill, personnel etc. are to be carefully considered in order to minimise the overall noise impact generated by these movements.
- Personnel will be instructed on Best Practice Mitigation Measures to reduce noise and vibration as part of their site induction training.
- Shouting and raised voices shall be kept to a minimum. Use of radios is to be prohibited except where two-way radios are required for reasons of safety and communication.
- Strict controls on the sequencing of works and providing noise protection would be developed on an activity-by-activity basis.

8. Considered Construction

In order to maintain a high standard of good practice at the site, the project will be managed to reflect the key principals of Considerate Construction and will adopt the requirements of these principals as follows:

- **Consideration:** All work to be carried out with positive consideration to the needs of all potentially affected parties and the environment in general;
- **Environment:** Minimising noise and dust from construction, use of local resources where possible, attention to waste management, avoidance of pollution and encouragement of recycling.
- **Cleanliness:** The working site is to be kept clean in good order at all times.
- **Good Neighbours:** Full and regular consultation with neighbours regarding programming and on site activities. Incl Manchester City FC, Network Rail and any impacted residents.
- **Respectful:** Respectful and safe standards of dress will be maintained. Lewd or derogatory behavior will not be tolerated under threat of severe disciplinary action.
- **Safe:** Construction operatives and site vehicle movements are to be carried out with great care and consideration for the safety and security of the general public and site personnel.
- **Responsible:** Electricity North West will ensure that all site personnel and any other persons working on the site understand and implement the obligations of the Considerate Construction principals.
- **Accountable:** Information relating to the construction will be displayed around the site including on the information board in the site canteen and one to be established at the main gate, giving names and telephone numbers of staff who can be contacted in response to issues raised by the general public or other persons affected by the site operation.

9. Community Consultation Plan (By ENWL):

We are currently working with our communications team (Oliver Smith) to inform people who use Asda / McDonalds and the retail park of the upcoming road works.

This will be in the form of posters and letter drops to the residents in the area and we are also discussing this with the council to see if they require anything else for the road works.

For the construction work at Eastlands, we are in constant contact with the stadium and others that use the land.

There are no residential properties near the site that will be impacted by the works.

Letter drops will be carried out to businesses nearby to inform them of increased traffic and key dates for large deliveries.

10. Emergency Contact Details (By ENWL):

Enquiries to:

Call: 0800 195 4141

Email: enquiries@enwl.co.uk

Tweet: @ElectricityNW