



Asbestos Case Study

Asbestos

GE Alstom - Stafford



Experts in Providing
Specialist Services
Nationwide



GE Alstom, Stafford

The Shield Asbestos Removal Birmingham branch was appointed as the primary contractor for the soft-strip demolition and asbestos removal ahead of the final demolition of the General Electric (GE) Alstom Transformer Block and Substation at the Lichfield Road site in Stafford.

The GE site in Stafford was undergoing a regeneration following the completion of new premises located in the area. The multi-phase project will see the land cleared for redevelopment. Shield were appointed as the primary contractor for the pre-demolition works of the Transformer Block and Substation. The project ran from December 2023 to July 2024.

Transformer Block

A compound was setup within the rear car park, from which Shield and scaffolding sub-contractor, M&G, would operate from. GE hardwired the cabins for use.

GE fully isolated the entire building of all services and issued full certification of confirmation to Shield's Site Manager, prior to commencement of the works.

GE also installed temporary power transformers to each floor, to facilitate Shield's on site requirements.

M&G scaffolding erected a fixed scaffolding to the external of the building to facilitate install of Alimak access hoist system by Park Hall Plant to all floors.

Shield assisted with the removal of windows and below sections of wall for the Alimak hoist system installation. This allowed the system to be tied into the structural columns.



Hoist system helped to provide access to all floors

Soft strip works

The Ground, First, Second and Third floors were soft stripped of all fixtures and fittings.

All soft furnishing were removed and placed into the Alimak Hoist to facilitate removal from the upper floors prior to moving to the onsite skips located within the designated areas. The G300 Alimak system was used with lifting capacity of 300kg.

All pre-isolated redundant cables and services were cut back and removed.

Floor tiles were also removed, under locally controlled conditions

Upon completion, a Statement of Cleanliness was issued by the Shield Site Manager.



Pre and post images of soft strip works to floors of former office space.



Access was cut in the exterior of building to provide access on to scaffold

GE Alstom, Stafford

The Shield Asbestos Removal Birmingham branch was appointed as the primary contractor for the soft-strip demolition and asbestos removal ahead of the final demolition of the General Electric (GE) Alstom Transformer Block and Substation at the Lichfield Road site in Stafford.

AIB Removal

The safe removal and disposal of AIB residue to timbers throughout the Ground, First, Second and Third floor areas, plus two stairwells was completed. A totalling of circa 3,540m² 980m² was removed under fully controlled conditions.



Example of AIB debris recorded to underside of existing floor.

All four risers to each floor were cleaned as far as reasonably practical. All non-asbestos pipe lagging was removed and pipes were cleaned as far as reasonably practical or removed if isolated. Asbestos floor tiles were removed throughout each floor.

All ceilings were removed and disposed of as contaminated waste, totalling circa 3,540m².



Example of AIB located to external windows.

All timbers were removed as contaminated waste, with any structural timbers that could not be removed were cleaned as far as reasonably practical.

Where timbers could not be cleaned to a satisfactory condition, they were encapsulated with ET-150.

AIB panels above access doors on each floor were removed.

Analytical attendance and 4 stage clearances were carried out as required to each area of works.



Location of Shield DCU in secured area of site alongside welfare unit.

Substation

The safe removal and disposal of 20m² of AIB ceiling in Substation was carried out under fully controlled conditions.

The Substation was pre-isolated for the duration of the works, with written confirmation of isolations issued to Shield's Site Manager.

All flash guards to electrical gear were removed.

Floor tiles were removed as far as reasonably practical.

The entire area was environmentally cleaned of AIB debris.

Analytical attendance and 4 stage clearance will be carried out.

Key statistics:

- Total number of 35m³ Skips = 52
- Number of Asbestos enclosures x 8
- A team of eight were used for the soft strip works and a 5-man asbestos removal team was also deployed