



Health & Safety Plan

DEMOLITION WORKS:

No 2 Substation

Revision History

Revision	Date	Section	Detail of Amendment	By
r3a	09/10/14		First Issue	JH

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1. Description of Project

1.1. Introduction

This document covers the pre-construction information for the: **DEMOLITION of No 2 Substation.**

This Health & Safety Plan has been prepared in accordance with the requirements of the CDM regulations and the recommendations of the Approved Code of Practice. The duly appointed contractor will be required to comply with all the requirements of the CDM regulations.

The Contractor shall not commence any demolition work until he has first developed a “construction stage” Health and Safety Plan in accordance with the Regulations (The Demolition Plan).

The Contractor shall issue his developed “construction stage” Health and Safety Plan to the Client / CDM Co-ordinator in sufficient time to allow them to comment prior to the commencement of any demolition works.

All designers, contractors and suppliers directly appointed by the client are required to fulfil their obligations under the CDM regulations, which include co-operation with other Designers, Contractors, the CDM Co-ordinator and the Contractor in respect to health and safety matters.

The Contractor shall ensure that all direct appointments that he may make in his capacity as Main Contractor include provisions for the compliance of his trade or sub-contractors, suppliers and designers with the relevant provisions of the CDM Regulations.

The works which are the subject of this Health and Safety Plan relate to the demolition of existing buildings etc., as defined on the location drawings and specification documents.

SCOPE OF WORK

1.1.1 Working Area

Comprises:

The Redundant No 2 Substation

The work comprises demolition of the following building:-



The work will be to demolish the buildings down to the topside of the concrete slab. Any resulting voids, open edges, etc to be filled with suitable inert demolition arisings, when tested and approved, to make safe.

During demolition work, the main demolition areas must be cordoned off with secure Heras fencing for the duration of the demolition work – before work commences.

Suitable safety signage must be erected on the perimeter fencing.

Dust suppression measures must be employed throughout the works.

- The building is of brick construction with a concrete flat roof.
- Dimensions: 16m long X 10m wide X 6.0m high
- An Asbestos survey has been completed and all Asbestos has been removed
- The building has been fully Isolated from Electrical supplies and pipework
- The building has been fully decontaminated.

A Demolition Plan/RAMS to be provided by the demolition contractor for approval prior to commencement of work.

1.1.2 Location:

The structure is situated to the East of Solvay premises and alongside the site perimeter see attached site plan.

1.1.3 General Information

Traffic movement is common around the site, with HGV's, forklift trucks and similar vehicles operating around the area.

Solvay personnel are also working in and around the general area, and so the demolition site area will need to be segregated and cordoned off.

There are a number of existing services on and around the area which will need to be identified.

Access to the site is good; however, careful site controls will be required to enable machinery, etc

to operate safely. Localised protection of adjacent equipment will be required to prevent accidental damage – to be agreed with the Project Manager.

Vehicular access planning must account for pipe bridges in the area. During construction, the work area will be restricted for access to unauthorised personnel, as is practical, by the main contractor.

Within the working area, work must progress in an orderly and tidy manner.

All unwanted scrap and debris must be safely stored for disposal in a safe manner.

There will probably be more than one contractor working at any one time.

Consideration must be given to eliminate risk to others.

Procedures and techniques must be in place to protect employees, contract personnel and existing equipment from debris or falling materials.

All personnel working on the project will be made aware of the location of the muster point and the nearest Toxic Gas refuge room.

Solvay Employees may need minimal infrequent access to the site.

1.1.4 Scrap/Waste/Rubbish & Materials

The Contractor shall ensure that the working area is maintained in a clean and tidy condition at all times.

Throughout the works, the contractor must act to prevent materials, waste, rubbish, etc from collecting and causing obstruction, nuisance or safety hazards.

Some of the redundant material, scrap, waste arisings, surplus materials etc, may be required to be moved to an area, designated by the Project Manager, near to the working area, for possible decontamination prior to removal from site.

On completion, the site shall be left clean and tidy to the satisfaction of the Solvay Project Manager.

1.1.5 Services

The following services are present in the main plant area:-

- Drains
- Process Water
- Electrical supplies
- It & Telephone cables

All relevant plant services will be isolated prior to any dismantling/demolition work commencing

Contractors must allow for and carry out a survey, employing detection equipment, to verify the location and status of all known underground services, and to check for unrecorded services, prior to commencing any demolition, site clearance or earthworks.

Contractors must establish formal procedures to ensure that any unrecorded services located during the works are carefully checked to determine their nature and status; to record relevant information and provide this to the Project Manager prior to agreeing a course of action.

Measures shall be taken to protect all services as specified prior to commencing demolition, site clearance or earthworks.

1.1.6 Planning

A planning application has been made to the local authority.

1.1.7 Asbestos

An Asbestos demolition survey has been carried out for all buildings.

All Asbestos materials will be removed prior to commencement of the demolition works.

1.1.8 Interface with the General Public

The Contractor must take all measures necessary to protect the general public from any risks arising out of the works.

Wherever possible the Contractor shall programme the works and sequences of operations to allow for the complete segregation of all demolition activities from the general public. Where this is not possible the Principal Contractor shall identify all the hazards and risks which will affect the general public and take appropriate measures, including the provision of hoardings/barriers, protection from falling materials, avoidance of uneven surfaces, adequate illumination, etc., to adequately control these risks.

The Contractor to ensure all vehicles leaving the site with loaded demolished materials shall be suitably covered to ensure no dust, debris or rubbish may be blown or fall from the vehicle during its route.

Dust suppression measures must be employed throughout the works and noise must be kept to the minimum possible for this type of work.

The Contractor must provide an adequate method statement with his tender submission to demonstrate his intentions for the protection of adjacent businesses and the general public.

1.2. Designated Roles

Details of the designated roles currently known are:

Client:	Solvay, Novecare, Oldbury, West Midlands B69 4LN
Designer:	Solvay, Novecare, Oldbury, West Midlands B69 4LN
CDM Coordinator:	MDG, Solvay, Novecare, Oldbury, WM, B69 4LN (John Hares)
Principal Contractor:	MDG, Solvay, Novecare, Oldbury, WM, B69 4LN

1.3. Timescale

Demolition Start Date: 27/10/14

Demolition completion: 03/11/14

Duration: One Week

A detailed project programme will be provided prior to the start date.

It is vital that appointed contractors work to the agreed programme and any deviations identified must be communicated to the Solvay Project Manager as early as possible.

1.4. Available Plans/Drawings

Copies of all relevant drawings for the project will be provided prior to work starting.

- Local plan of the structure – Extracted from site plan.
- Overall site plan for planning delivery and crane access routes.
- Local plan of area showing drain locations.
- Local plan of area showing Services locations.

Below is a list of the relevant drawings:

Drawing No.	Revision	Title

2. Clients Considerations and Management of the Work

2.1. Arrangements for Management of the Project

The designated Contractor will be required to provide a suitable project management team to coordinate the work involved including a competent site representative who will be responsible for the conduct of work and who has authority to receive and act on the Project Manager's or Construction Engineers instructions.

Contact details for the Solvay Project Management team are listed below:

Project Manager – John Hares

Tele – 0121 541 3677 Mob: 07850 921647

Fax - 0121 5413558

E mail – [@solvay.com](mailto:)

Site Construction Engineer – Paul Mason and/or Mike Powell

Tele – 0121 541 3391(PM) Mob: 07905 054340 or 3234 (MP)

Fax - 0121 541 3558

E mail – [@solvoy.com](mailto:)

Electrical/Instruments Project Engineer - John Davies

Tele – 0121 541 3338 Mob.: 07870 891382

Fax - 0121 5413558

E mail – [@solvoy.com](mailto:)

Out of hours contact is possible via Oldbury Works Lobby (0121 5413314)

Project meetings will be held on site, as required, to discuss the project progress and to discuss any unresolved issues that have been identified.

Project Progress meetings will be held at an agreed frequency.

It is critical that all work is progressed as per the agreed demolition plan. Any potential changes to the RAMS identified by the contractor must be communicated to the Solvay project manager and formally agreed before any changes are progressed.

2.2. Site Health and Safety Requirements

Details relating to health and safety for the Oldbury Solvay Site, as well as welfare and site security, are contained in the document G2, Guidance for Contractors; a copy is attached in appendix 1.

The Oldbury site also operates to key site HSE rules these are contained in document G13, Site HSE rules, a copy of which is attached in Appendix 2.

It is imperative that both these documents are read and understood and the details within these documents are to be fully observed by all contractors and their staff working on this project. This must be reflected in all work arrangements.

Weekly safety audits will be conducted by the Solvay Project management team and will be recorded in the Health & Safety Plan (Appendix 11). Any issues arising will be communicated to the relevant contractor and must be addressed as soon as possible with details provided to the Solvay project management team.

Key Health and Safety Requirements.

The G02 document provides all the Health and Safety requirements when working on Oldbury site and below are some key site health and safety requirements.

PPE

A minimum of overalls, boots, glasses (with face seal), hard hat and gloves must be worn in all work areas.

Additional requirements specific to tasks involved will be identified on the permit to work for the task.

Contractors Equipment

All access equipment to be in good condition, suitable for the task and certified safe for use where applicable.

All hand tools and machinery must be in good working order and safe to use. Certification should be available where necessary.

All electrically powered equipment must be PAT tested and certified safe for use prior to commencement of work.

Personnel

All personnel are to be qualified, experienced and competent in the use of the equipment to be used. Certificates and or licences must be supplied to the Solvay Project Manager for inspection and recording.

All contractors engaged to work on this project must undergo a site induction with respect to the Site Safety Rules and Emergency Evacuation Procedures before commencement work on the site, unless they have a current valid Solvay induction card.

Method Statements/ Risk Assessments

The contractor will be required to provide suitable method statements and carry out risk assessments as required. A detailed Method Statement is to be provided by each contract company involved before site work commences. This must detail not only what work is to be done but also how it is to be done.

Construction Work Area Considerations

During site work, the work area will be restricted for access by the contractor. Consideration must be given during the period of the contract to eliminate risk to others.

This project may involve several contractors or Solvay employees working in the same area at any one time, and therefore work methods must reflect this. Consideration must be given during the period of the contract to eliminate risk to others.

Consideration should also be given to on-going operational and maintenance requirements of the plant where applicable. Warning signs and barriers should be used to warn of particular hazards such as welding work or heavy lifting work.

Procedures and techniques must be in place to protect employees, contract personnel and existing equipment from debris or falling material at all times.

Within the working area, work must progress in an orderly and tidy manner. All unwanted scrap and debris must be safely stored for disposal.

Permit To Work Procedure

Oldbury Site operates a well-established Permit-to-Work scheme. The procedure applies to all work on the Oldbury Site. All Contractor employees must ensure they are fully conversant with the operation of the scheme, and all personnel are required to sign on and sign off the relevant permit every day, for every task which is encompassed by the permit scheme.

Where entry to a confined space is involved, a Confined Space Entry Certificate is required.

All welding, cutting, burning or other Hot Work activities requires the issue of a Hot Work Permit.

Permits will be obtained from: Trinity Street Project Office:-

Main Permit writers: Paul Mason and/or Mike Powell

All personnel working on the Project must sign onto the Permit at the start of the working day and sign off at the end of the day.

All visitors to the construction area will be required to sign the visitor's book.

3. Environmental restrictions and existing on-site risks

The Oldbury Solvay site is a chemical manufacturing site and as such will have areas where varying types and quantities of chemicals are stored, used and manufactured. The very nature of the business means that there are certain potential hazards that need to be considered when planning construction work. The aspects to be considered for the area in which the construction work is to take place are:

DEMOLITION - Activities

The following activities have been identified as posing a special health & safety hazard during the demolition phase of the works.

Activity	Principle Hazard	Comments
Asbestos removal	Toxic, Harmful	Asbestos survey has been completed. All identified Asbestos materials will be removed prior to commencement of demolition works.
Concrete form work	Collapse	Safety in false work for in-situ beams and slabs
Confined Space	Suffocation	Safe work in confined spaces Confined spaces
Crane	Falling/Toppling	Safe use of cranes
Demolition		Code of practice for demolition
Electrical	Electrocution	Electricity at work. Safe practices. Electrical safety on construction sites.
Equipment removal	Physical injuries	A guide to the lifting of plant & equipment. Manual handling
Excavation	Collapse	Avoiding danger from underground services Excavations
Ladders/Steps/Trestles	Falling	Safe use of ladders, steps & trestles Use of ladders to be avoided where possible
Powered mobile platforms	Falling/Toppling	Construction Health & Safety check list (Powered access equipment)
Roof Work	Falling	Health & Safety in roof work
Scaffold	Falling	Construction Health & Safety check list (Scaffolds) General access scaffolds Tower scaffolds
Vehicles/JCB/Dumper	Collision	Construction health & safety check list (Traffic & Vehicles).
Welding/Burning	Explosion Respiratory	The safe use of compressed gases in welding, flame cutting & allied processes. The control of exposure to fume from welding, brazing & similar processes.
Grinding/Disc cutting	Eye Injuries	Safety in the use of abrasive wheels.

All method statements and risk assessments must reflect this information.

4. Arrangements for controlling significant design and construction hazards

During the Demolition phase of this project all reasonable steps will be taken to mitigate identified risks. Any remaining identified design and construction issues are listed below:

- Great care will be necessary as the demolition site is close to working production plants.

5. The health and safety file

This construction phase Health & Safety Plan will be compiled by Solvay and will be available at the construction area for reference. It is the responsibility of the Principle Contractor to supply all relevant HSE information during the construction phase. It is imperative that all relevant information is added to the plan as the work progresses and copies issued to the Solvay Project Management team.

At the end of the demolition phase of the project the relevant sections pertaining to the Health & Safety File will be extracted by the Solvay Project Manager and Issued as part of the hand over documents to the site maintenance team.

APPENDIX 1 - G2 Guidance for Contractors

APPENDIX 2 – G13 Site Safety Rules

APPENDIX 3 – Site Standards

APPENDIX 4 – Drawings/Plans

APPENDIX 5 – Programme

APPENDIX 6 – F10 Form

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