

# Demolition Method Statement

Demolition & Dismantling

Redundant MCO Gas Holder & 451 Conveyor within  
Port Talbot

**CLIENT: TATA STEEL**

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## REVISION CONTROL

| REVISION | PREPARED BY | DATE     | REASONS FOR REVISION                           | APPROVED BY | DATE     |
|----------|-------------|----------|------------------------------------------------|-------------|----------|
| 00       | M Pearson   | 27/03/25 | N/A                                            | C Dobson    | 27/03/25 |
| 01       | P. Turbitt  | 12/12/25 | Following comments received from Tata / Turley | M. Pearson  | 12/12/25 |
|          |             |          |                                                |             |          |
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## CONTENTS

|                                                        |    |
|--------------------------------------------------------|----|
| Revision Control .....                                 | 0  |
| 1. Summary of the works .....                          | 3  |
| 2. Project Pre-Amble .....                             | 6  |
| 2.1. Appointments & Site Details .....                 | 6  |
| 2.2. Contact Details .....                             | 6  |
| 2.3. Local A&E Hospital.....                           | 7  |
| 2.4. First Aid .....                                   | 7  |
| 2.5. Plant & Equipment.....                            | 7  |
| 2.6. Demolition Excavators.....                        | 8  |
| 2.8 PPE/RPE .....                                      | 9  |
| 2.9 Services.....                                      | 9  |
| 2.10 Security and Fencing Protection .....             | 12 |
| 2.11 Working at Height .....                           | 13 |
| 2.12 Manual Handling .....                             | 15 |
| 2.13 Traffic Management .....                          | 15 |
| 2.14 Noise.....                                        | 19 |
| 2.15 Dust Control .....                                | 22 |
| 2.16 Vibration (Nuisance & Whole-Body Vibration) ..... | 23 |
| 2.17 Vibration Hand & Arm.....                         | 17 |
| 2.18 Environmental Precautions.....                    | 18 |
| 2.19 Hot Work.....                                     | 19 |
| 2.20 Work Control documents.....                       | 20 |
| 2.21 Training & Competency .....                       | 27 |
| 2.22 Known Hazards .....                               | 28 |
| 3 Methodology .....                                    | 32 |
| Pre cleaning.....                                      | 34 |
| Controlled Blowdown .....                              | 36 |
| Completion of works. ....                              | 39 |
| 4 Appendices.....                                      | 40 |
| 4.21 RAMS Register (to be signed prior to works).....  | 40 |

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
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| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 1. SUMMARY OF THE WORKS

TATA Steel have a requirement to carry out the necessary deconstruction/demolition of the MCO Gas Holder and Conveyor items, all Machinery, Plant, Equipment, and any other associated items back to ground level at their TSSP UK Port Talbot site. Also in the scope of work is a requirement to clean and remove Coke Oven Gas (COG) and grease to the underside of the internal piston.

On completion of demolition, the area is then to be graded and cleared of any items.

All plants, equipment, civil and mechanical structures will be de-energised and isolated by Tata.

Thompsons of Prudhoe Ltd (Thompsons) have been appointed to deliver the work scope. This Demolition Method Statement details the techniques, sequence and safe working controls required to deliver the required work scope.

A series of detailed and specific Risk Assessments and Method Statements (RAMS) will be developed to deliver the work once the site is handed over to Thompsons.

All works will be pre-planned and undertaken with due care and control, to ensure the safety of site personnel, contractor staff, live retained plant and equipment, stakeholders and to minimise disruption. Strict traffic management controls will be in place, as well as strict plant to person interface controls. The boundary of the work area will be secured and controlled as a CDM site throughout the works. All works will be undertaken within the confines of the work site and will adhere to pre-planned sequencing. Mitigation will be in place to reduce dust, noise and vibration to a minimum.

Prior to the commencement of works, a UKAS accredited asbestos surveyor will be appointed by to carry out a refurbishment / demolition asbestos survey of the structures identified for demolition. The MCO Gas Holder was constructed post 2000, therefore acm's are very unlikely to be used in the construction. The adjacent 451 conveyor was constructed prior to the year 2000, therefore an R&D asbestos survey will be required prior to demolition. The R&D survey will be carried out w.c

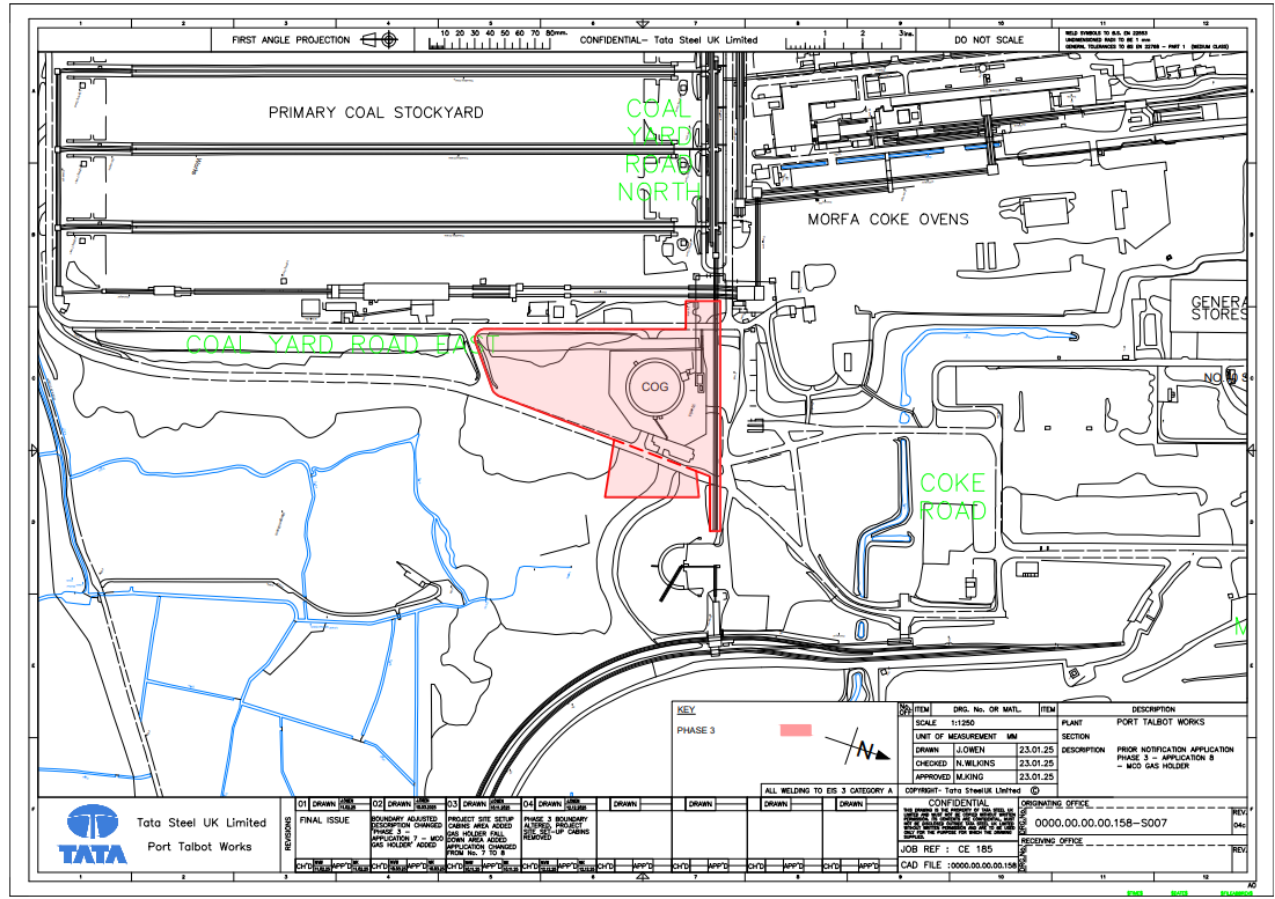
The explosives to be used will be a combination of linear cutting charges and Dynamite kicking charges.

. These quantities can only be confirmed precisely once the detailed engineering study has completed.

Site working hours will be 07:00 – 17:00 Monday to Friday. Alternate weekends, Saturday & Sunday will also be worked 07:00 -17:00.

|                 |                  |                     |
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| Document Ref:   | WMT/MP/22389     |                     |
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Figure 1 – MCO Gas Holder Site Plan (Exclusion Zone)



|                        |                  |                      |          |
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| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

### **Chosen Methodology (Controlled Blowdown vs Dismantle in Sections via Crane)**

Following an internal assessment of the two viable options to demolish the MCO Gas holder, a controlled blowdown has been identified as our chosen method. Note the comparative assessment below:

| Method                           | Benefits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Disadvantages                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Discussion                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Blow-down / Explosive Demolition | <ul style="list-style-type: none"> <li>Reduced work at height on completion of enabling / preparation works.</li> <li>Significantly improves time to demolish, compared with other considered methods.</li> <li>Noise, dust and vibration emissions are not prolonged duration – nuisance to stakeholder groups and exposure to site team.</li> <li>No requirement for manual working on completion of preparation works.</li> <li>No requirement for SIMOPS.</li> <li>Similar Blowdown Method and design has been utilised on similar gas holders structures in the UK and has proven to be successful.</li> </ul> | <ul style="list-style-type: none"> <li>Risk of flying debris from explosive demolition.</li> <li>Debris throw from charges and air blast.</li> <li>Direction of fall.</li> <li>Risk to stakeholders and persons straying into exclusion zone.</li> <li>Road closures required within footprint of work site and within wider TATA Steel site external to work site.</li> </ul>                                                                                                                                                                                                     | <ul style="list-style-type: none"> <li>Risk of flying debris mitigated through designed exclusion zone.</li> <li>Dust releases mitigated by water suppression.</li> <li>Using kick charges will allow separate time delays to be used to minimise air blast.</li> <li>Risk to stakeholders and persons straying into exclusion zone mitigated through use of hard barriers, positioning of sentries, with line of sight, radio contact, emergency procedure, checking process and drone with infra-red camera.</li> </ul> |
| Dismantle via crane, in sections | <ul style="list-style-type: none"> <li>Poses no significant risk to other contractors working external to the CDM area.</li> <li>No risk of flying debris during blowdown.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                               | <ul style="list-style-type: none"> <li>Extensive working at height to prep via crane and man basket or MEWP.</li> <li>Loss of structural stability in the gas holder once crown is removed.</li> <li>Weather exposure when working at height.</li> <li>Prolonged working at height.</li> <li>Operative / operator exposure to HAVS.</li> <li>Manual handling.</li> <li>Operative / operator Exposure to noise.</li> <li>SIMOPS.</li> <li>Potential exposure of operatives to residual substances.</li> <li>Potential for unknown historic voids / areas of weak ground.</li> </ul> | <ul style="list-style-type: none"> <li>Prolonged method of demolition.</li> <li>Technique is weather dependent which is likely to cause extensive delays.</li> </ul>                                                                                                                                                                                                                                                                                                                                                      |

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## 2. PROJECT PRE-AMBLE

### 2.1. Appointments & Site Details

| <b>Site Address:</b>                                  |
|-------------------------------------------------------|
| TATA Steel UK Ltd<br>Port Talbot<br>SA13 2NG<br>Wales |

| <b>Client:</b>                                        |
|-------------------------------------------------------|
| TATA Steel UK Ltd<br>Port Talbot<br>SA13 2NG<br>Wales |

| <b>Proposed Principal Designer:</b>                                                  | <b>Proposed Principal Contractor:</b>                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Perses CDM LTD<br>36 Venturefair Drive,<br>Edinburgh,<br>United Kingdom,<br>EH17 8WD | Thompsons of Prudhoe Ltd<br>Princess Way<br>Low Prudhoe<br>Northumberland<br>NE42 6PL |

### 2.2. Contact Details

| <b>Thompsons Supervisory &amp; Management Details:</b> |                        |                                                                                            |               |
|--------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------------|---------------|
| <b>Name:</b>                                           | <b>Position:</b>       | <b>Email:</b>                                                                              | <b>Phone:</b> |
| Tom Koerner                                            | Operations Director    | <a href="mailto:tomkoerner@thompsonsofprudhoe.com">tomkoerner@thompsonsofprudhoe.com</a>   | 07789 170 613 |
| Chris Dobson                                           | H&S Director           | <a href="mailto:chrisdobson@thompsonsofprudhoe.com">chrisdobson@thompsonsofprudhoe.com</a> | 07919 491 702 |
| Ryan Molloy                                            | Environmental Director | <a href="mailto:ryanmolloy@thompsonsofprudhoe.com">ryanmolloy@thompsonsofprudhoe.com</a>   | 07919 491 706 |
| Ben Harris                                             | Commercial Manager     | <a href="mailto:benharris@thompsonsofprudhoe.com">benharris@thompsonsofprudhoe.com</a>     | 07718 564 298 |
| Mark Pearson                                           | Project Manager        | <a href="mailto:markpearson@thompsonsofprudhoe.com">markpearson@thompsonsofprudhoe.com</a> | 07919 491 709 |
| David Hudson                                           | Site Manager           | <a href="mailto:davidhudson@thompsonsofprudhoe.com">davidhudson@thompsonsofprudhoe.com</a> | 07919 491 701 |



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### 2.3. Local A&E Hospital

| <b>Address:</b>                                                     | <b>Contact Numbers:</b> |
|---------------------------------------------------------------------|-------------------------|
| Neath Port Talbot Hospital<br>Baglan Way<br>Port Talbot<br>SA12 7BX | 01639 862000            |

### 2.4. First Aid

The Demolition Site Manager is First Aid at Work Trained. Each work area Supervisor is also First Aid at Work Trained. First aid kits will be available within the work site in designated locations and within the welfare area / Site Office. Information to all persons will be provided during the Thompsons Induction.

### 2.5. Emergency Response

Thompsons will develop our own CDM area emergency response plan which will be full detailed within the Construction Phase Plan. Thompsons will also adhere to any required Tata Steel UK Ltd site emergency requirements and will integrate any required site emergency plans/procedures for Tata Steel UK Ltd.

Thompsons Project Manager will be appointed as the designated Emergency Response Coordinator. They will be responsible for planning and managing emergency response procedures, especially for chemical-related incidents. Their responsibilities include:

- Developing emergency response plans and protocols.
- Ensuring that personnel are trained in emergency procedures.

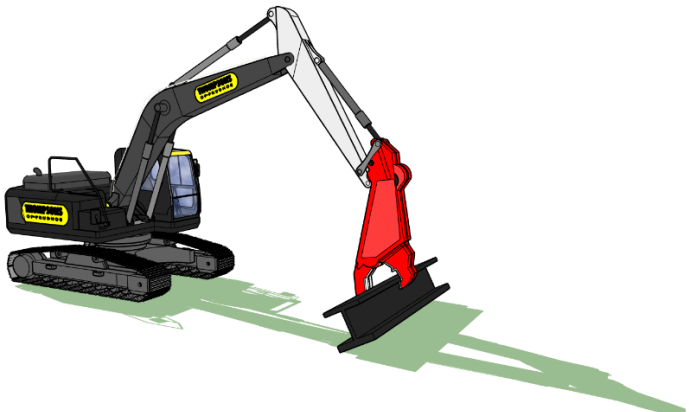
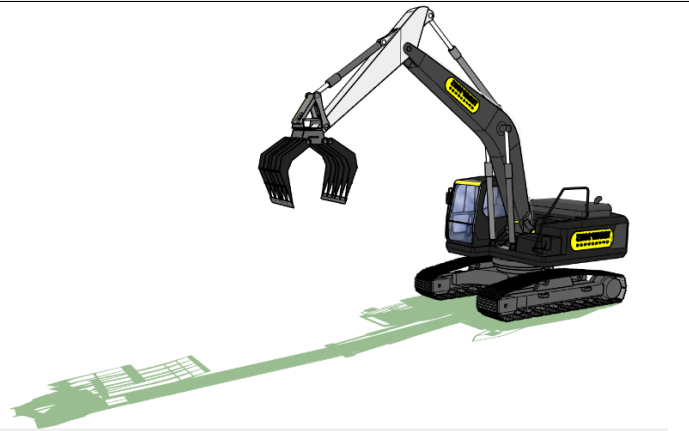
### 2.6. Plant & Equipment

- Heras fencing – CDM Site Boundary
- Warning & information signage – Demolition in Progress Keep Out, No Entry (Structure is Pre-Weakened Past This Point etc)
- Reciprocating saws
- Boom type MEWP
- Tele-handler forklift truck
- Demolition spec 360° excavator machine (equipped with shear attachment)

|                        |                  |                      |          |
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| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Demolition spec 360° excavator machine (equipped with rotating grab, bucket and breaker attachments)
- Skips (categorised)
- Spill kits with gloves, disposable bags, pads, socks and absorption granules etc.
- Liquid Ring Vacuum Loader
- IBC's
- Radios
- Gas Personal Monitors
- BA Trailer
- Lighting
- Static Monitors
- Bunds
- Kicking charges
- Cutting charges
- Drills
- Metal Shims

## 2.7. Demolition Excavators

|                                                                                     |                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p>Large Demolition Excavator with hydraulic shear attachment</p> <p>Used to mechanically demolish and dismantle the conveyor structures/steel frame structures and to process scrap.</p> |
|  | <p>Medium size Demolition Excavator (20te+) with rotating grab attachment</p> <p>Supports the larger excavator, through sorting and segregating and load-away of arisings</p>             |

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| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.8 PPE/RPE

### Mandatory:

- Hard hat (BS EN397 – Thompsons supplied only)
- Safety boots (incl. reinforced toe cap and mid-sole)
- FR Overalls (Class 3 hi-vis)
- Jacket (Class 2 hi-vis)
- Gloves – General use (minimum of BS EN888:1994)
- Light eye protection (Safety Specs – BS EN166)
- Toxic gas detector & EBA

### Use of boom type MEWP:

- Mandatory PPE
- Full body safety harness equipped with 1m fall restraint lanyard

### Cleaning Operations

- Chemical Suit Double Cuffed (HPWJ Operators)
- BA Equipment
- 5 Gas Monitors (Drager XAM 5000)
- Kevlar Wellingtons (HPWJ Operators)
- Blackline G7 Benzene Monitors
- Gauntlets (HPWJ Operators)
- 3M 4251 Organic Vapor Mask
- Ear Defenders

## 2.9 Services

Works will take place within the confines of the CDM area.

Prior to commencement of demolition works on site all services will be isolated. Thompsons will receive a Handover Certificate and Isolation Certificate. Prior to start of works, Thompsons project management team will undertake a walk-around with the Client to confirm isolations and cleanliness prior to hand-over.

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| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

Please refer to Tata site clearance certificate SCO3487. Where any adjacent live structures remain, these will be protected prior to demolition works starting. This will include boarded scaffold protection, in accordance with a temporary works design or TG20:21 standard solution, steel plates or directing the direction of demolition away from these services.

| Tata Steel Strip Products<br>Site Clearance Certificate                                                                                                                                                                                   |                                         | Certificate Number: SC 03487                                    | TATA                  |                    |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|-----------------------------------------------------------------|-----------------------|--------------------|-------------------|
| <b>Section A - To be Completed by the Tata Authorised Issuer (Print Name): A. Brown</b>                                                                                                                                                   |                                         | <b>This Section MUST be completed before Section B</b>          |                       |                    |                   |
| Contractor Company / TATA Working Party: <u>Perses / TATA Decan Tam</u>                                                                                                                                                                   | Contractors Safety Serial Number: _____ | Validity dates - Maximum 56 Days                                |                       |                    |                   |
|                                                                                                                                                                                                                                           |                                         | From                                                            | To                    |                    |                   |
| Exact location of work - (include site reference points where possible)<br><u>MCO Gas Holder + Surrounding Area</u>                                                                                                                       |                                         | <u>2/12/25</u>                                                  | <u>26/1/26</u>        |                    |                   |
| Description of work - (must include an attached drawing/sketch)<br><u>Desktop Study for Demolition works</u>                                                                                                                              |                                         |                                                                 |                       |                    |                   |
| <b>Section B - Clearance requirements to be indicated by TATA Authorised Issuer</b>                                                                                                                                                       |                                         |                                                                 |                       |                    |                   |
| Department                                                                                                                                                                                                                                | Yes / No                                | Action / Instructions to be taken prior to commencement of work | Name (Print)          | Signed / Date      | Drawing Number(s) |
| Design Office - Electrical                                                                                                                                                                                                                | YES                                     | There are Cable routes & Fibre Optic area                       | DO James Owen         | Emailed 08/12/25   | 22389, 22389      |
| Design Office - Mechanical Pipework                                                                                                                                                                                                       | YES                                     | There are Gas pipe line recorded                                | DO James Owen         | Emailed 08/12/25   | 0000.00.00.34.00  |
| Design Office - Civil / Drains                                                                                                                                                                                                            | YES                                     | There are drain record in the area                              | DO James Owen         | Emailed 08/12/25   | 0000.00.00.34.00  |
| Electrical (High / Low) - Voltage                                                                                                                                                                                                         | YES                                     | There are Multi Cable routes with Maindown                      | Toshua Griffin        | Emailed 12/12/25   | 0000.00.00.34.00  |
| Fuel and Gas                                                                                                                                                                                                                              | YES                                     | No Forestry around In-ground Gas Mainline                       | Isaac Nigel           | Emailed 02/12/25   | 0000.00.00.34.00  |
| Water / Steam / Air / Effluent                                                                                                                                                                                                            | YES                                     | There are water pipe line record                                | DO James Owen         | Emailed 08/12/25   | 0000.00.00.34.00  |
| Communications                                                                                                                                                                                                                            | YES                                     | No Telecom in Masked area                                       | Signon Philip         | Emailed 22/12/25   | 0000.00.00.34.00  |
| Civil - Roads and Drains                                                                                                                                                                                                                  | YES                                     | Drainage recorded in area                                       | C. Williams           | 12/12/25           | 0000.00.00.11.00  |
| Others (Estates / Works Protection / Logistics)                                                                                                                                                                                           | NO                                      |                                                                 |                       |                    |                   |
| Works Area - Engineering                                                                                                                                                                                                                  | NO                                      |                                                                 |                       |                    |                   |
| Works Area - Electrical                                                                                                                                                                                                                   | NO                                      |                                                                 |                       |                    |                   |
| <b>Section C - Method of Excavation - to be identified by TATA Authorised Issuer:</b> <u>cells, gas &amp; damage within the area. See old work</u>                                                                                        |                                         |                                                                 |                       |                    |                   |
| (Refer to Policy & Practice for guidance)                                                                                                                                                                                                 |                                         |                                                                 |                       |                    |                   |
| TATA Authorised Issuer:                                                                                                                                                                                                                   | Print Name: <u>C. Williams</u>          | Signature: _____                                                | Date: <u>12/12/25</u> | Time: <u>12:23</u> |                   |
| <b>Declaration:</b> I, the Person in Charge of the Working Party, accept and understand the terms and conditions contained within this Certificate.                                                                                       |                                         |                                                                 |                       |                    |                   |
| Authorised Person in Charge of Working Party:                                                                                                                                                                                             | Print Name: _____                       | Signed: _____                                                   | Date: _____           | Time: _____        |                   |
| <b>Have you considered Excavation Safety? Barrier Excavation / Support / Shoring / Deep Water / Access / Egress / Gas / Ground Contamination</b>                                                                                          |                                         |                                                                 |                       |                    |                   |
| <b>Section D - Cancellation</b> I hereby declare that all person under my charge have withdrawn and have been warned that it is not safe to return to the area. All tools, equipment and waste materials have been removed from the area. |                                         |                                                                 |                       |                    |                   |
| Signed on behalf of Contractor / Person in Charge of Working Party:                                                                                                                                                                       | Print Name: _____                       | Signed: _____                                                   | Date: _____           | Time: _____        |                   |
| Signed by TATA Authorised Issuer:                                                                                                                                                                                                         | Print Name: _____                       | Signed: _____                                                   | Date: _____           | Time: _____        |                   |
| TP5597                                                                                                                                                                                                                                    |                                         |                                                                 |                       |                    |                   |
| Top Copy (Pink) - To be placed in Permit Office Middle Copy (Blue) - To be handed to person in Charge of Working Party Bottom Copy (White) - To be returned to Tata Authorised Person                                                     |                                         |                                                                 |                       |                    |                   |



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## 2.10 Security and Fencing Protection

The Port Talbot site has permanently manned 24/7 security guarding in place.

The site is secure from any public access with an existing permanent outer fence in place.

Access to site will be on the approval by Tata Steel following completion of the contractor's induction. Visitors will be escorted at all times. A specific Thompsons induction will be provided to Visitors and those persons undertaking works on site.

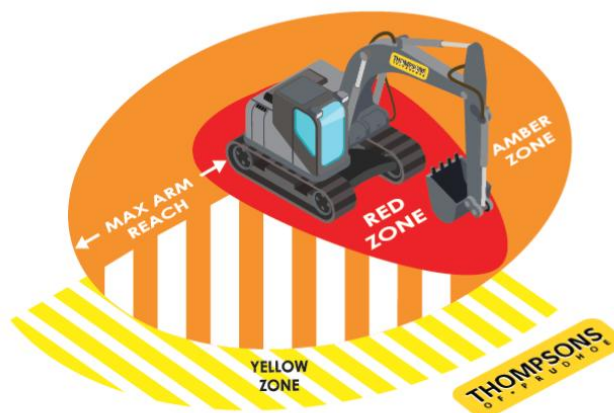
The specific work site will be enclosed within a robust and secure fence line, partitioning the work site from surrounding areas of the Tata Steel Port Talbot site. The fence line will be sited to avoid disruption of adjacent live areas and access routes. A site access gate will be installed, which will be secured when not in use. Warning and information signage (including emergency contact details) will be displayed on the site access gate and in prominent positions around the boundary fence. All persons will be required to sign-in on arrival at Thompsons working area. On completion of works each shift a final check will be undertaken to confirm that the site is fully secure.

During mechanical demolition works, a demolition exclusion zone will be put into place within the confines of the CDM site, in accordance with BS6187:2011. Access to this exclusion zone during active demolitions will be permitted to essential persons only. Demolition plant to person interface will be strictly controlled and will be addressed in detailed method statements and risk assessments.

All members of the working team and the mobile plant will be equipped with the Site Zone plant to person interface control system.

During all other plant movement operatives must remain in the yellow zone and will not enter the working radius of the excavator machine at any time unless the excavator is immobilized with the safety lever and the boom grounded, in which case operatives can enter the orange zone, as shown on the diagram below.

|                 |                  |               |          |
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#### Plant Interface Zones for 360o Machines, Loading Shovels and Telehandlers etc

**Yellow Zone** All personnel involved with the plant operation must remain within this zone to maintain visual contact with the plant operator.

**Amber Zone** Entry prohibited until positive visual contact is made with the plant operator, the slew arm/hydraulics grounded and the machine is immobilised using the safety lever.

**Red Zone** Entry prohibited unless the machine is completely isolated with the slew arm/attachment/bucket grounded, the machine immobilised using the safety lever.

**Hatched Zones** Denotes typical sight lines of the plant operator.

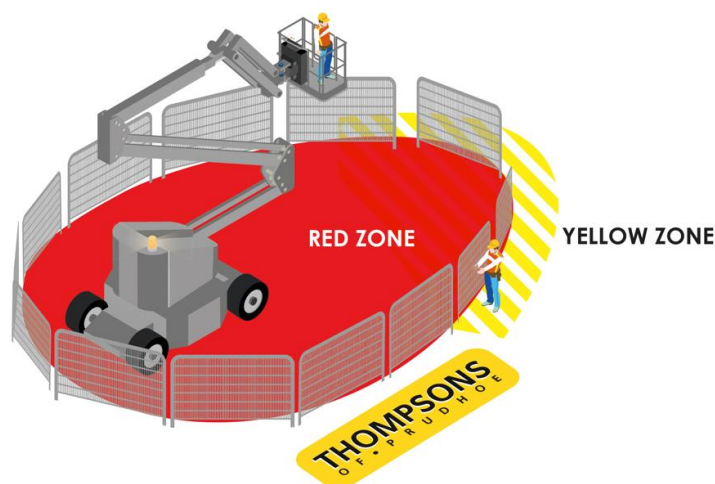
## 2.11 Working at Height

The work will be planned with strictly minimize work at height in accordance with the hierarchy of control. Controlled blow-down and remote, mechanical demolition will be the primary method of work.

There still remains a requirement for limited work at height. Access to height will be gained using a boom type MEWP. The MEWP will be operated by a CPCS or IPAF trained and experienced operator. An exclusion zone will be in force at ground level below the MEWP and basket. The SWL of the MEWP is 227kg and must not be overloaded. Overload will be notified via audible alarm. Prior to use of the MEWP the operators will use the manual supplied by the manufacturer / supplier to undertake familiarisation training. All persons within the MEWP basket will be required to wear a full body safety harness with 1m fall restraint lanyard.

An exclusion zone will be in force at ground level below the MEWP.

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |



#### Rescue Plan for MEWP use:

- If the MEWP operative(s) have been injured prior to retrieving the casualty operatives must first assess the situation fully before commencing a rescue operation. Hazards within the working area, which may affect rescue, should be noted.
- If the MEWP operative(s) have been injured request medical assistance as quickly as possible in accordance with the site emergency plan.
- With the above in place the casualty will be recovered via the most suitable means. Two trained operatives will work within the MEWP at all times and if one operative is injured then the basket will ideally be brought to ground level in a controlled manner, by the second operator. If both operatives are injured or if the basket controls fail to respond then the MEWPs emergency override controls will be operated from ground level to bring the operatives safely to the ground.
- Once at ground level the casualty's condition will be assessed by the site first aider and (if applicable to the condition of the injured person) monitored until the emergency services arrive.

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.12 Manual Handling

Operatives are manual handling trained. Manual handling will be minimum during demolition works. Thompsons demolition methodologies are mostly mechanical in nature and will always favor the use of plant over manual handling. All necessary manual handling is subject to a risk assessment, considering the nature of the task, individual capabilities, the type of load and the environment of the work area.

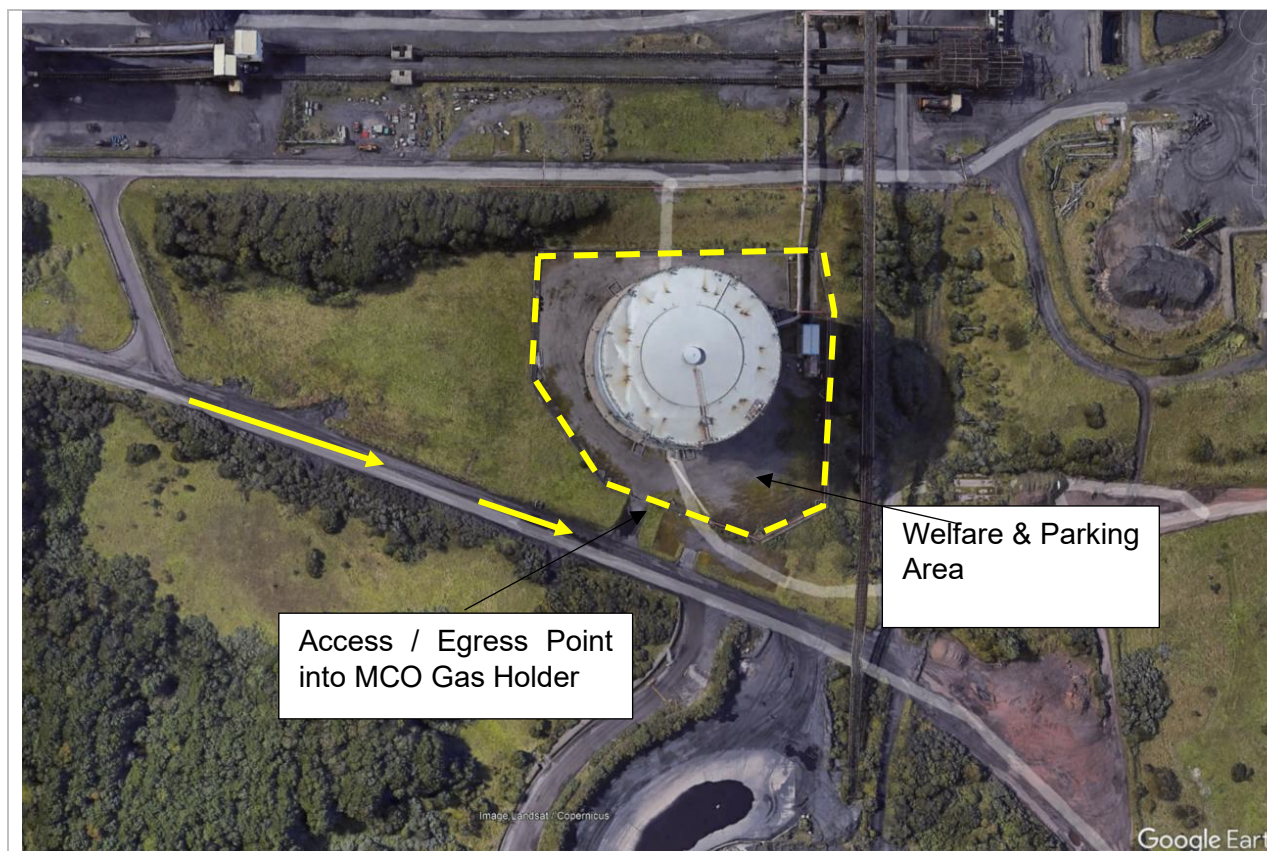
## 2.13 Traffic Management

Access for vehicles to Port Talbot is strictly controlled at all times via a gate system, controlled from the adjacent Security Office. The site speed limit is 20 mph and any vehicular traffic away from site roads is controlled existing TMP. Thompsons will adhere to all existing traffic management requirements and restrictions. Personnel will adhere to the pedestrian routes and the instructions of the Client at all times. Personal vehicles will be left in the approved external car parking area.

Thompsons will develop a traffic management plan to carefully pre-plan all vehicular movements to and from the specific work site and will strictly manage the interface between vehicles and pedestrians within the work site. The requirements of the traffic management plan will be notified to all personnel at the CDM induction stage. At all times Thompsons will ensure the protection of all contractors and site stakeholders and to minimise disruption to adjacent work areas and operations. Initial access to the MCO Gas Holder site will be via the existing Tata site roadways, following a review of the site with Tata representatives, the exclusion zone perimeter will be established and designated access / egress points will be agreed. These will all be detailed on the CDM site plan.

Site TMP

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |



The number of vehicle movements per day is expected to be approximately 20.

The roadways and footpaths external to the CDM site will not be unduly blocked and will be kept free from arisings and obstruction throughout the course of the works. All working provisions and arisings etc will be stored within the confines of the ToP CDM Area.

Access to site for the delivery of work items and the collection of processed demolition arisings will be conducted with due care to for all stakeholders. Deliveries and collections will be made within the confines of the CDM site. Strict vehicle to person interface controls will be in place. Vehicles will be carefully banked into a loading / off-loading position. All persons will stay clear of the path of travel and will maintain communication.

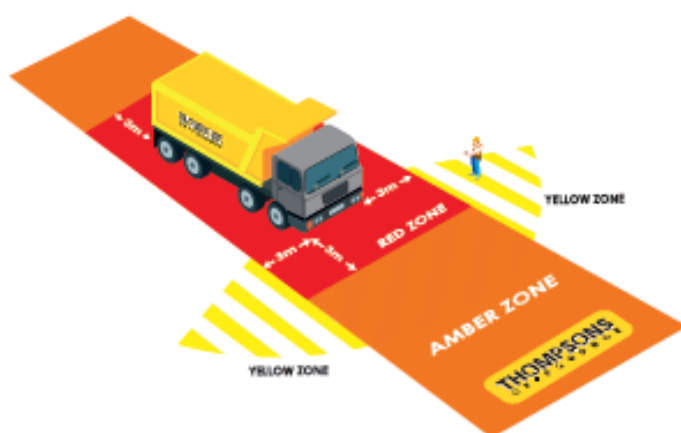
Strict vehicle to person interface will be in place during all vehicle movement. Drivers will adhere to the following as a minimum:

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|-----------------|------------------|---------------|----------|
| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

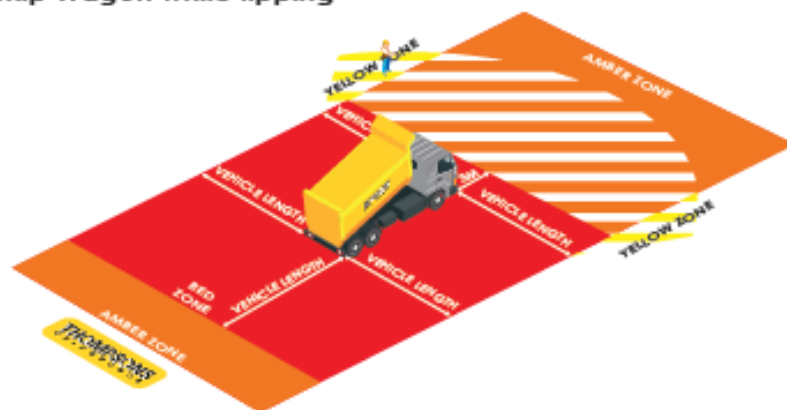
## KNOWING THE VULNERABLE AREAS AROUND PLANT AND VEHICLES.

It is of high importance that those working around and operating items of plant are aware of their blind spots and that they understand where people such as banksmen or pedestrians may not be seen along with other road users.

### Skip Wagon



### Skip Wagon while tipping



|                 |                  |               |          |
|-----------------|------------------|---------------|----------|
| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

## Banksman/Observers

Positioning your vehicle to discharge may require reversing with supervision from a site reversing observer. Ensure whoever is supervising exchanges and agrees what signals will be used before you proceed. Drivers must recognise they are always responsible for all activity or actions they take when controlling their vehicle, whether the reversing observer is supporting or not.

When a Banksman is provided, do not reverse until told.

- ✓ **DO** - Remember that it is always the driver's responsibility to make sure that the delivery can be made safely.
- ✓ **DO** - Proceed to the signed designated 'Holding Area' and await instruction from Banksman.
- ✓ **DO** - Identify the Banksman.
- ✓ **DO** - Always keep the Banksman in view.
- ✓ **DO** - STOP if you lose sight of the Banksman.
- ✓ **DO** - Ensure clear two way communication is maintained at all times.

### IF IN DOUBT, STOP!

- ✗ **DON'T** - Reverse unless supervised by a Banksman.
- ✗ **DON'T** - Take any orders from any other person other than the dedicated Banksman.

In the event of a designated Banksman NOT being present, drivers should minimise, where possible, the need for reverse manoeuvres and take the necessary precautions to minimise risk, including full use of on board camera systems and mirrors.



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|-----------------|------------------|---------------|----------|
| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

## 2.14 Noise

### Policy and procedural requirements

Noise on site will be controlled in accordance with Thompsons ISO certified business management systems and associated policies and safe working procedures. Thompsons will adhere to the applicable recommendations and requirements of IAQM Standard and BS5229-1:2009+A1:2014 Code of practice for noise and vibration on construction an open-sites. Adherence to Thompsons procedures and the required guidance will be monitored by the Site Manager and Project Manager. Visiting audit / inspection will be undertaken by Thompsons EHS Department and our Compliance Officer (in addition to Client and Principal Designer audit/inspection).

An integrated noise, dust and vibration monitoring system will be installed to allow real-time continuous monitoring. Background levels will be documented prior to start of works and compared to the real-time monitoring as works progress. Reports will be generated and provided as part of the contractor's report and the H&S File, as required. A monitoring station will be set-up at the immediate edge of the work site boundary adjacent to sensitive receptors. The provisions will be moved as works progress, in line with the working sequence.

Thompsons will adhere to noise limits as detailed in BS5229-1:2009+A1:2014, as noted below:

Table E.1 Example threshold of  $\Delta_{11}$  potential significant  $\Delta_{11}$  effect at dwellings

| Assessment category and threshold value period    | Threshold value, in decibels (dB) $\Delta_{11}$ ( $L_{Aeq, T}$ ) $\Delta_{11}$ |                          |                          |
|---------------------------------------------------|--------------------------------------------------------------------------------|--------------------------|--------------------------|
|                                                   | Category A <sup>A)</sup>                                                       | Category B <sup>B)</sup> | Category C <sup>C)</sup> |
| Night-time (23.00–07.00)                          | 45                                                                             | 50                       | 55                       |
| Evenings and weekends <sup>D)</sup>               | 55                                                                             | 60                       | 65                       |
| Daytime (07.00–19.00) and Saturdays (07.00–13.00) | 65                                                                             | 70                       | 75                       |

**NOTE 1** A potential significant effect is indicated if the  $L_{Aeq, T}$  noise level arising from the site exceeds the threshold level for the category appropriate to the ambient noise level.

**NOTE 2** If the ambient noise level exceeds the Category C threshold values given in the table (i.e. the ambient noise level is higher than the above values), then a potential significant effect is indicated if the total  $L_{Aeq, T}$  noise level for the period increases by more than 3 dB due to site noise.  $\Delta_{11}$

**NOTE 3** Applied to residential receptors only.

<sup>A)</sup> Category A: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are less than these values.

<sup>B)</sup> Category B: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are the same as category A values.

<sup>C)</sup> Category C: threshold values to use when ambient noise levels (when rounded to the nearest 5 dB) are higher than category A values.

<sup>D)</sup> 19.00–23.00 weekdays, 13.00–23.00 Saturdays and 07.00–23.00 Sundays.

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

If agreed levels are exceeded an alert will be issued by the monitoring system to the team without delay. Works will immediately halt for re-assessment. Review of the levels will be undertaken alongside the existing control measures. Works will then be re-planned with additional control measures etc and will commence again under continuous monitoring to ensure that improvement has been successful.

#### Mitigations

An exclusion zone will be in force around each work area to restrict access to all but essential persons. This will limit personal noise exposure.

The core working pattern will be as follows:

- Week 1 – Monday to Sunday Afternoon
- Week 2 – Monday to Friday (Early Finish for travelling)

In terms low noise demolition work – This is to be carried out between the hours of 07.00 – 17.00 every day (including Sundays and bank holidays).

In terms of Noisy demolition work, this out during core hours - This is to be carried out between the hours of which are 7am – 17.00 Monday – Friday and 7am – 13.00 Saturday.

- No Noisy work before 07.00 or after 17.00pm on a weekday,
- No noisy work before 07.00 or after 13.00 on a Saturday
- No noisy work at all on Sundays or bank holidays.

| Task Description                     | Core Hours* | Evenings and Weekends** | Public Holidays** |
|--------------------------------------|-------------|-------------------------|-------------------|
| Demolition with (pecking machine)    | X           |                         |                   |
| Demolition without (pecking machine) | X           | X                       | X                 |

#### Notes:

\* 07:00 – 20:00 Monday – Friday, 07:00 – 13.00 Saturday

\*\*19:00 – 20:00 Monday – Friday, 13.00 – 20:00 Saturday, 07:00 – 20:00 Sundays and Public Holidays

The working pattern for contractors will be:

- Week 1: Monday afternoon – Sunday

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Week 2: Monday – Friday morning

No works outside the permitted hours will be undertaken without the permission of Neath Port Talbot Council.

Temporary services will be powered by screened, silent run generators. The work equipment will be fitted with mufflers and silencers where possible.

Wagon and plant engines will be turned-off when not in use.

All plant and equipment will be subject to daily inspection and robust maintenance to reduce noise emissions.

Thompsons intended working methods for this project will primarily use demolition excavators. Low impact methods of demolition will be applied where possible (e.g. use of shear and rotating grab attachment). Each work package area will be controlled as an exclusion zone, to prohibit access to all but essential persons.

Works generating levels in excess of 80dBA will be highlighted using warning signs. All works producing noise in excess of 85dBA and above will be conducted within a hearing protection / exclusion zone. Barriers and signage will be used to differentiate these areas and access will only be approved to persons essential for the work task. Hearing protection will be worn by the operator and all others within the work area (Verishield VS120 and VS130H Ear Defenders with SNR of 32 & 35dB). The specific noise levels are as follows:

| <b>Tool Type</b>      | <b>Make / Model</b>                | <b>Noise Levels (dB)</b> |
|-----------------------|------------------------------------|--------------------------|
| Recip Saw             | Hiti WSR 22a Recip Saw             | 100                      |
| Recip Saw             | Hilti SR30 Recip Saw               | 96                       |
| Recip Saw             | Hilti SR4 A22 Recip Saw (cordless) | 94.5                     |
| Hot cutting equipment | Oxy-propane hot cutting            | 105                      |

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.15 Dust Control

Control mechanisms will be put into place to ensure that works minimise disruption and nuisance.

During the blowdown the following controls measures will be implemented to control dust levels.

Dust Boss – self-contained unit used for general dust suppression duties during controlled felling of the Gas holder structures. Four units will be used during the blowdown.

A charged fire hose will also be used in various positions, with water obtained from an approved source.

20 Waterfilled IBCs will be positioned at charging locations to minimise dust at source.

The final locations of the dust mitigation / suppression equipment will depend on the wind direction to ensure it is effective and will be detailed within the RAMS / Blowdown Manual.

Thompsons will ensure that the skips / wagons leaving site are first sheeted / covered to prevent the arising of dust during transportation. All waste will be transferred to authorised, licensed waste disposal sites.

Roads external to the CDM site will be kept clean of mud, dust and debris at all times. The roads will be subject to ongoing inspection. Wagons will be loaded on hard-standings, to minimise mud, dust and debris.

For tasks which generate dust and/or during the demolition / dismantling of plant / equipment etc containing dusts all personnel will wear RPE. All personnel have received health surveillance and face fit testing. These works will take place within an exclusion zone, with only essential persons present.

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.16 Vibration (Nuisance & Whole-Body Vibration)

Temporary services will be powered by screened, silent run generators to reduce nuisance vibration. Wagon and plant engines will be turned-off when not in use. All plant and equipment will be subject to daily inspection and robust maintenance to reduce nuisance vibration.

Whole body vibration will be strictly controlled through the provision of air seats and dampening mechanisms in the demolition plant. Annual health surveillance is in place to monitor the workforce. Plant and equipment will be maintained to a high standard throughout works in accordance with our integrated management system procedures, accredited to ISO 9001:2015.

## 2.17 Vibration (Hand Arm Vibration)

Where vibratory hand tools are used then a system of monitoring and worker rotation will be put into place. Operatives will wear gloves to keep their hands warm.

### Actions for Thompsons Operatives

- Report any signs of HAV – pins and needles, pain, numbness of the fingertips, pain in the wrists, reduced sensitivity in the touch
- Use the correct tools for the job
- Rotate the vibratory tools with fellow workers when notified by the Site Supervisor
- Wear warm gloves

### Actions for Thompsons Site Supervisor

- Complete trigger time record sheet and rotate employees tasks
- Provide information to operatives on HAV
- Advise employees of the required safe working practices
- Eliminate or reduce vibration risks in line with the method statement and safe working procedures

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.18 Environmental Precautions (Incl Spill & Waste Management)

At all times site operations will be undertaken with the protection of local stakeholders and the environment in mind. Works will be undertaken in a controlled manner to ensure the protection of and to minimise disruption to local stakeholders and all third parties. Thompsons will carry out our works to strictly minimise noise, vibration and airborne dust as much as possible.

Meetings will take place prior to the planned blowdown with local stakeholders to explain and discuss control measures for dust, vibration etc.

All operatives will be advised (via Induction, RAMS Briefing, Daily Safety Briefing and POWRA) of the aspects of the site that require attention or protection.

Open drains within the confines of the CDM site will be sealed and protected prior to commencement of demolition and associated works.

Spillage of fuels and oils etc will be cleaned-up immediately if they occur. This will be done in line with Thompsons site procedures, the Permit to Work stipulations and the Thompson pollution prevention and emergency procedures. Spills will be notified to the Client immediately and investigated.

Thompsons will identify any hazardous materials and deal with the disposal of such materials in accordance with our statutory requirements. Any hazardous waste will not be stockpiled on site and will be removed immediately. All substances brought to site will be used in accordance with COSHH Assessments and MSDS.

All scrap materials will be processed on site and stockpiled in a designated area within the CDM site and removed via the client.

Thompsons will ensure that our works do not pollute the environment including nuisance noise, windblown dust, spillages etc and will prevent polluting materials from leaving the site in accordance with the contract specification.

Thompsons will establish a designated re-fueling point on site. Spill kits will be present on site to deal with any incident. Operatives are Environmental Awareness trained and this includes emergency drills for clean-up / control of spillage. In the event of leakage / spillage operatives will follow the emergency clean-up / control procedure.

In accordance with the RSK – Biocensus Peregrine & Badger report dated May 2025, no signs of nesting bird activity were noted on any of the survey visits that were carried out. Signs of

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

badgers were very limited but did include footprints along the main track that runs adjacent to the gas holder, however, no badger setts were identified within 100m of the gas holder. Therefore, neither badger nor nesting peregrines (or any other nesting birds) are considered likely to be impacted during demolition of the gas holder, provided works are undertaken before the next main nesting bird season (March to August inclusive). Prior to the commencement of works, ToP operatives will be briefed on these during their site induction. Throughout the duration of works, operatives will be instructed to maintain a watching brief and if any badgers or nesting birds are identified, works will immediately stop and Tata Steel notified.

## 2.19 Hot Works

Hot Working will comply with the Thompsons Hot Working Procedure (TOP-H&S-SWP-006). Hot working will be subject to a specific Thompsons Hot Working Permit. Hot works will be minimised where possible.

No hot work to be undertaken until the COG and grease cleaning operations have been completed.

### Surrounding Environment

When hot works activities are carried out in direct contact or in close proximity to flammable or combustible substances there is the risk of explosion, fire or the production of toxic substances, with the potential to cause serious injury, ill-health or damage to property and the environment.

### Hazards

Hazards arising from Hot Works mainly comprise:

- The ignition of flammable vapour within a confined space
- The application of heat to a pipe or vessel which contains explosive, flammable or toxic gases and substances
- The risk of personnel injury from hot debris, including “arc-eye”, burns and heat exhaustion
- The risk to the surrounding building or environment from sparks generated during the burning works (i.e., risk of fire). Especially in areas containing flammable materials
- Asphyxiation by gases, vapours or poisonous fumes

### Competent & Authorised Persons

Hot Works should only be undertaken by suitably trained, experienced and competent persons who have the following: -

- Experience in the use of the hot works equipment
- Regular safety awareness training

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Instruction & training in the operation of the equipment in question

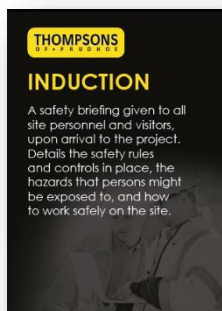
### Permit to Work

A Hot Work Permit will be produced by Thompsons to authorise the work or the use of any equipment, likely to produce flame, heat or spark in any plant area where combustible or flammable conditions may exist. It is required for burning, welding, use of naked flame, use of power tools, use of any heat source or spark source.

## 2.20 Work Control Documents

Thompsons operate a series of Safe Systems of Work (SSoW) 'Thompsons Safety Systems', which are formed from the following Key Safety Principles (all of which shall be deployed during the delivery of this project).

### Induction



A safety briefing shall be given to all personnel prior to commencement of works. The induction is there to inform all persons of the safety rules and controls that in place relating to this unique site location.

### Daily Safety Briefings (DSB)



Daily Safety Briefings shall be given at the workplace where the team discuss the previous day's work and both positive and negative learning outcomes. The team shall discuss the activities scheduled to be conducted that day along with the associated hazards and control measures.

This is an opportunity for the Supervisor to have two-way dialogue with the employees to ensure that all persons feel safe whilst performing their duties.

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## Risk Assessments & Method Statements (RAMS)

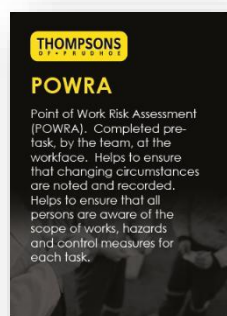


Project and task specific Risk Assessments and Method Statements will be developed for the full scope of the works.

All risks will be assessed and documented, with controls put in place to minimise/eliminate the risk as low as reasonably practicable.

The specific method statements will identify the techniques and methods to be used to dismantle the structure efficiently and safely.

### Point of Work Risk Assessment (POWRA)



Thompsons will carry out a series of POWRA's at the workplace prior to the works being carried out. The POWRA's ensure that all persons are aware of the scope of works and the associated hazards and control measures for each task.

Any changes to the Project circumstances are noted and recorded.

## 2.21 Training & Competency

The project will be managed by an experienced project management team, comprising Project Manager, Site Manager and EHS Officer.

Demolition works will be undertaken by experienced and trained demolition operatives, who hold relevant CSCS and CCDO cards, at the appropriate level for their role (Demolition Operative to Experienced Worker Topman). Personnel are trained through CITB, National Demolition Training Group and other approved training providers on all specialist techniques and equipment in use on our sites.

Plant operators each hold CSCS / CPCS competency cards, NVQ and other specialist training for the plant and equipment which they operate.

|                 |                  |               |          |
|-----------------|------------------|---------------|----------|
| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

## 2.22 Vegetation Management & Ecological Requirements

The vegetation and wildlife that has been identified within the designated work areas through various ecological and environmental surveys, have outlined specific controls/requirements that must be implemented prior to any activities, particularly the controlled blowdown of the gas holder structure.

In accordance with RSK guidelines, vegetation will be managed as follows: it will be cut down to a height of approximately 150–200 mm and left undisturbed for 3–5 days to allow amphibians and other wildlife to vacate the area, this approach ensures compliance with ecological standards and minimizes environmental impact.

Once this process is complete, the gas holder structure can be safely collapsed in the planned direction. Following the collapse, mechanical cutting and cleanup operations will commence once the structure is at ground level.

To confirm, Tata is committed to sharing the bird report and maintaining a watching brief, should demolition extend beyond March 2026, in agreement with NPT.

## 2.23 Ecology

### General

Throughout works the Thompsons of Prudhoe team will adhere to all project ecological requirements, including adhering to ecological survey requirements and the instructions of the project ecologist(s). Thompsons working team will be supported by our Environmental Director and EHS Team.

### Habitat manipulation to avoid harm to reptiles

Whilst there is no activity to be carried out on site regarding vegetation removal and all work will be carried out via the normal access roadway system, if vegetation is to be impacted, then the following criteria must be applied:

- Where these habitats are anticipated to be removed the phased removal of vegetation will be carried out under a watching brief from an Ecological Clerk of Works (ECoW). These works will take place during the active season for reptiles (i.e. between mid-March and end of October, weather dependant) and during suitable weather conditions.
- Impacted reptile habitat will be hand searched by an ecologist immediately before vegetation is removed. For removal, the vegetation will first be cut down to a height of

|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

150 mm above ground to allow reptiles to vacate the site of their own accord. The hand searching will then be repeated before vegetation is finally removed down to ground level.

- Following the completion of the phased vegetation removal, the cleared areas will then be subject to a destructive search (i.e. mechanical topsoil strip) to ensure no reptiles remain. Any wood piles or tree roots and hedgerow banks/root systems will be cleared by hand, or else with a mechanical excavator under the guidance of an ecologist. The destructive search will also be undertaken between mid-March and the end of October (weather dependant).
- Any reptiles found during searches will be allowed to vacate the site of their own accord or - only if necessary - captured and translocated to retained habitat in the west of the site.

## 2.22 2.24 Complaints

The objective of the TATA Steel Complaints Standard is to establish a clear, consistent, and accountable process for the receipt, management, investigation, and resolution of complaints across all channels. Throughout the duration of the project Thompsons of Prudhoe and our site personnel will adhere to the requirements of the TATA Steel Complaints Standard.

The applicable information from the TATA Steel Complaints Standard will be included within the project Construction Phase Plan and will be briefed to all applicable persons at site induction. If any Thompsons staff member receives a complaint specific to this project, then details will be recorded and will be passed to TATA Steel management without delay. Thompsons will then assist in any required investigation to determine root cause and improvement opportunities.

### Complaints and incident procedures

Where a breach of the SAT is experienced and/or a report of non-compliance with the AQDMP is received, the NSP should:

- As soon as possible, substantiate the complaint by considering the potential that construction site activities are contributing to the generation of dust;
- Where the dust is attributed to being generated by construction site activities, the NSP should ensure mitigation measures appropriate to the source of the dust (as detailed in the Construction Environmental Management Plan, or CEMP) are applied;

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Where there is no obvious source, then no immediate action should be taken, as it can be assumed that monitoring is attributable to other activities and issues controlled in accordance with the industrial emissions control procedure;
- Report back to the complainant to explain what (if any) action was taken and why; and,
- Note the time, date, name, and contact details of complainant in a complaints log.

The monitoring should be undertaken in accordance with the CEMP, including using data to determine the potential outcome. Therefore, this document should be consulted.

The remainder of this report sets out how monitoring and reporting is undertaken as part of the industrial permitting activities. The extensive array of air quality monitoring activities should explain how any data outages at any one monitor in the vast network of monitoring equipment will be managed, i.e. checks against Defra monitoring equipment near sensitive receptors in Port Talbot itself.

Please refer to Port talbot Environment standard complaints procedure.

[Port Talbot Environment Standard - Complaints \(1\) NOISE.pdf](#)

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2.25 Known Hazards

| ▪ Partial collapse of structure                            |
|------------------------------------------------------------|
| ▪ Confined space working                                   |
| ▪ Controlled explosion releasing various sized projectiles |
| ▪ Incorrect connections of detonation circuits.            |
| ▪ Poor lighting                                            |
| ▪ Incorrect cutting/out of sequence cutting of steel       |
| ▪ Exposure to hazardous material (COG/Sludge)              |
| ▪ Vehicle to Person Interface                              |
| ▪ Plant to Person Interface                                |
| ▪ Work at height - MEWP                                    |
| ▪ Potential for asbestos                                   |
| ▪ Potential for dropped objects                            |
| ▪ COSHH                                                    |
| ▪ Noise                                                    |
| ▪ Vibration (Nuisance, Whole Body)                         |
| ▪ Dust                                                     |
| ▪ Services                                                 |
| ▪ Manual Handling                                          |
| ▪ Poor Housekeeping                                        |

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

## 2 METHODOLOGY

### Establishment of CDM site

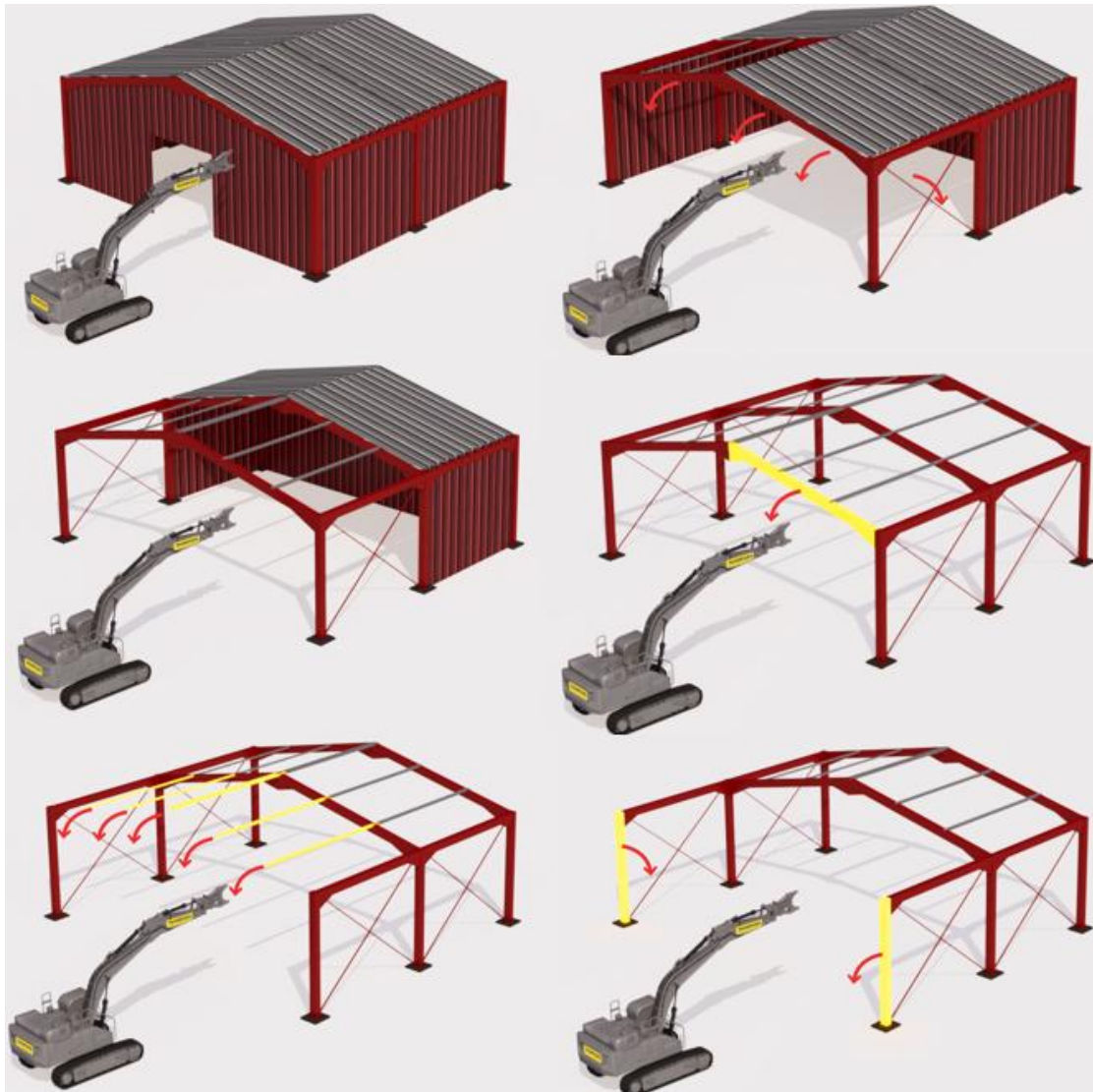
- The work site boundary will be enclosed using Heras type fencing, to designate the boundary of the CDM site and to ensure that access is only permitted to designated personnel.
- A site access gate will be installed within the fence line within an agreed location. The gate will be secured at all times when not in use. Warning signage will be displayed in prominent positions and in sufficient numbers at the CDM site entrance gate and the site boundary. Contact details will be provided for the site management team. Visitors will be escorted at all times. Thompsons will operate a tagin/out system for all personnel entering the CDM site.
- Prior to demolition an inner fence line will be established, to mark the boundaries of a demolition exclusion zone.
- Access to the exclusion zone during cleaning / demolition stages will be permitted to the necessary personnel only.
- Demolition works will be supervised from external to the demolition exclusion zone, with a clear view of the works and under radio contact.

### Demolition of Gas Holder Buildings MCC Substation /Blow Out

- All works will take place within a fenced demolition exclusion zone.
- Works will commence to remove any furniture and other loose items from within the building and will then progress with a soft strip of the building by hand, to remove fittings and fixtures.
- The building will be demolished by mechanical means, using a demolition spec 360° excavator machine equipped with a choice of rotating grab and shear attachments. To ensure safe plant to person interface only the plant operator will be positioned inside the exclusion zone, with the Supervisor and banksmen positioned external and using two-way radio to communicate and direct the works.
- The building will be demolished on a bay-by-bay basis. Demolitions will commence at the gable-end of the building and will work progressively to the opposite gable-end, working through both sections of the building.
- At roof level, the roof sheets of the first bay will be progressively removed and transferred to a stockpile at grade level. The sheets will be mechanically processed at ground level.
- The sheets from the external gable-end wall and side elevation walls of the first bay will be removed, working top-down. The sheets will be mechanically processed at ground level.
- The exposed steel frame of the building will be reduced working top-down and the sections removed to a stockpile at grade level.

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Once the first bay of the building has been demolished the excavator machine will be tracked onto the cleared slab to progress demolitions to the next bay of the building. Demolitions will progress bay-by-bay from gable-end to gable-end and will complete to carefully fold the gable-end wall into site and away from the exclusion zone boundaries.
- All demolition arisings will be processed, sorted, segregated and transferred to an agreed location.



|                        |                  |                      |          |
|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

### **Demolition of the 451 Conveyor**

- Prior to commencement of works all accessible conveyor belting, motors, gearboxes etc will be removed by the Client. Thompsons can assist the Client if these items are not readily accessible.
- The conveyor will be mechanically demolished and the arisings processed, using a 360° excavator machine with shear attachment. The conveyors will be demolished working on a bay-by-bay basis, commencing at one end and working systematically through.
- Conveyor junction houses will be systematically demolished working top-down, using the 360° excavator machine with shear attachment.
- The scrap generated by the works will be cut to 5x2 furnace size and removed to a pre-determined location by tipper bodied wagon.
- The concrete footings will be excavated using the bucket attachment. The concrete will be loaded onto a dump truck for transfer to an agreed processing area.

### **Temporary Works prior to Pre-cleaning of COG and grease to underside of gas holder piston**

- A specialist industrial cleaning contractor will be appointed to undertake the pre-cleaning work.
- Prior to cleaning an assessment will be undertaken by Thompsons in-house Structural Engineer and a propping design put in place for the Wiggins Wheel to be lifted and props installed to an appropriate height to allow access to underneath area. These will be recorded on a Temporary works register.

### **Methodology Coke Oven Gas/Sludge Removal.**

- An exclusion zone will be set up using barrier tape to prevent access into potential danger area.
- BA apparel is essential for all activities carried during the cleaning process.
- No unauthorised person shall enter this space during the decontamination Activities.
- A Rescue Plan to be provided due to the confined space risk.
- PPE Must be removed and disposed of correctly. The contaminated PPE, Gloves, Chemical, Tyrex Suits should be rolled away from the skin, and placed in the supplied bags for disposal.
- The BA equipment will be used only by BA trained Operators. A sentry bottle man will be responsible for monitoring the bottle oxygen levels as well as monitoring the hoses.
- Radio contact from the bottle operative will be used to communicate with the cleaning operatives situated above. As a back-up precaution a line-of-sight team will also be positioned from the bottle trailer to the jetting operatives.

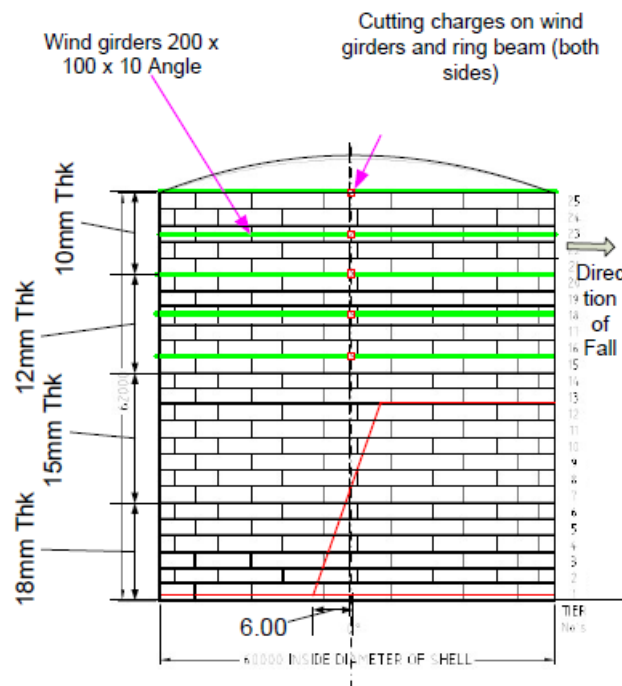
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| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- A third-party fire/safety rescue team will also be monitoring the SOW, these operatives will also be BA trained and have their own independent BA trailer. They will also have rescue bottles on hand in preparation of response to an incident.
- Constant suction/removal of the condensate/solids must be undertaken whilst vacuuming is in process.
- All activities at the work face to be conducted under BA.
- From EP's the operatives will feed vacuum hoses into the holder base allowing them to suck-out the remaining sediment and liquid inside.
- Nitrogen blanket to be used as an additional precaution during the cleaning/removal works.
- This will be pulled back to EP where a suitable drip tray will be set up in order to catch all solids and liquors that flow from the pipe. Vacuum hoses from the liquid ring tanker will be placed into the drip tray to give constant catchment of waste.
- The specialist will progressively remove all waste work around the base of the holder until all sections has been cleaned.
- The Liquid Ring Vacuum Loader will remove all washings from the collection point as the job progresses, ensure that there is no escape of waste from each drip tray. Personnel will not be permitted to clean more than one section at a time to prevent spillages.
- If there is a loss of containment then all cleaning operations will cease immediately, and remedial action taken to clean loss of containment.

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|-----------------|------------------|---------------|----------|
| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

## Controlled Blowdown

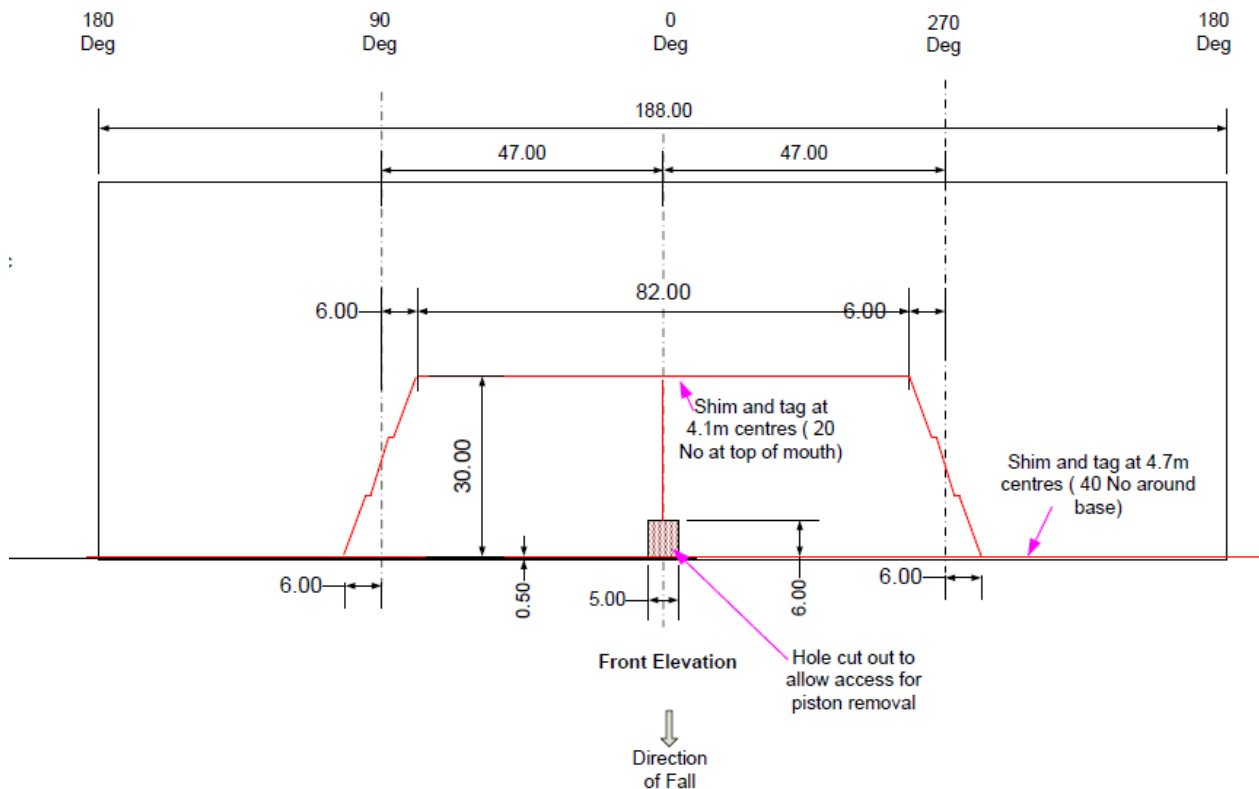
- Prior to commencement of the controlled blow-down the following controls will be put into place, adhering to a specific blow-down manual.
- Blowdown Engineer RAMS and calculations to be completed and checked as per temporary works requirements
- CAT 3 verification of the scheme to be completed.
- Liaise with all stakeholders and neighbouring sites to ensure all stakeholders are informed of the planned works, the timing of the works and the specific mitigations and controls.
- Any sensitive infrastructure or plant to be identified and vibration predictions prepared, and real-time vibration monitoring put into place.
- To gain access to remove the internal piston, hot works techniques will be used to initially cut a c.5m x 6m hole in the front elevation of the gas holder (in the direction of fall). Access to heights will be gained via boom type MEWP.



- Once the initial access has been formed a demolition spec 360° excavator machine will be used to gain access to the gas holder, to shear and remove the piston from the holder. During this stage confined space controls will be implemented and fully risk assessed.
- The gas holder structure will be pre-weakened adhering to the approved design. Blowdown Engineers will mark up all cut lines for Thompsons personnel. All pre-weakening works will be completed by Thompsons operatives under the supervision of a blowdown engineer representative. A MEWP will be utilised to access all work at heights.
- All progress during the pre-weakening stage will be recorded using a Quality Management Plan (QMP) to ensure cuts are made within the approved locations and to ensure that over or under-cutting does not take place.

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| Client:         | TATA Steel       |               |          |
| Project:        | MCO Gas Holder   | Contract Ref: | 22389    |
| Document Title: | Method Statement |               |          |
| Document Ref:   | WMT/MP/22389     |               |          |
| Revision:       | 01               | Date:         | 12/12/25 |

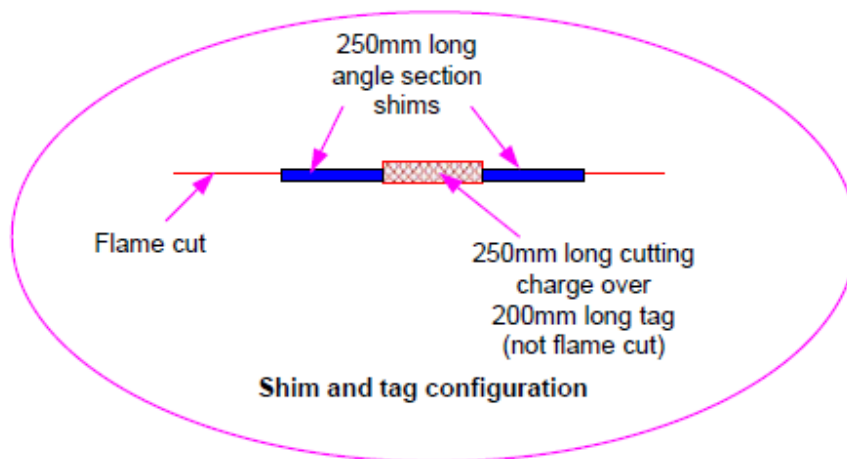
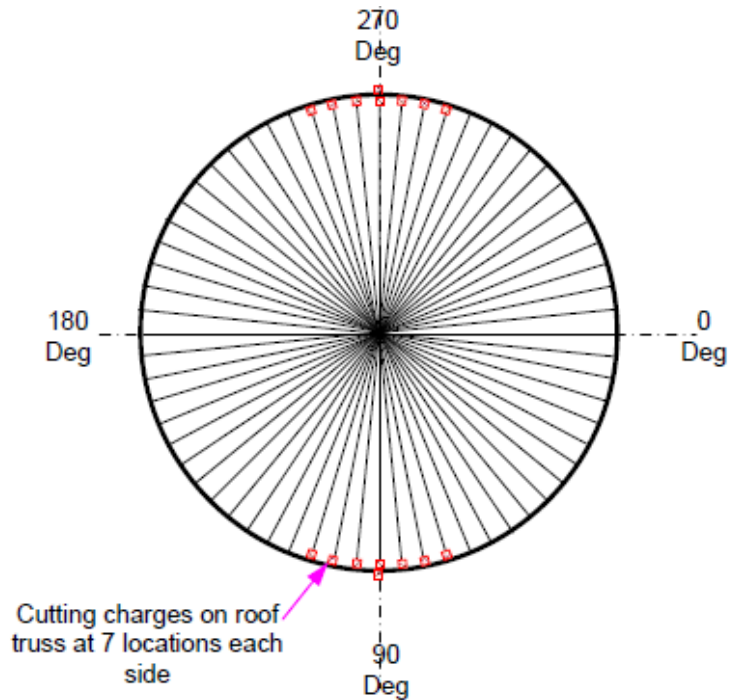
- Commence pre-weakening to mouth of Gas Holder.



- Operatives will use a boom type MEWP to gain access to height to form the upper cut line to the mouth. Operatives will hot-cut 4.1m sections. Operatives will follow the shim and tag detail as shown on the drawing and as detailed in the RAMS. Works will be monitored and recorded using the Quality Management Plan.
- Operatives will use a boom type MEWP to gain access to height to then complete the sloped cut line, working top-down on both sides of the gas holder. Note that no tags or shims are required in this location. Works will be monitored and recorded using the Quality Management Plan.
- Operatives working from ground level will then complete the base cut. Operatives will hot-cut 4.7m sections. Operatives will follow the shim and tag detail as shown on the drawing and as detailed in the RAMS. Works will be monitored and recorded using the Quality Management Plan.
- Using a telehandler forklift truck, Operatives will place 20 x IBC's filled with water inside the gas holder, up against the mouth plate. The IBCs will each be fitted with an explosive charge. When detonated they will be used to "kick" the mouth plate outwards. This will require confined space working under robust control.
- Vibration monitoring equipment will be installed to ensure works adhere to the vibration modelling.

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Blowdown Engineers will place cutting charges within pre-determined and approved locations on the Gas Holder (as per the diagrams). Access to heights will be gained by boom type MEWP. Works will be monitored and recorded using the Quality Management Plan.



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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

- Blowdown engineers will wire-up the cutting charges. Access to heights will be gained by boom type MEWP.
- The weather forecast will be monitored prior to pre-weakening work and throughout work. Any high wind events to be managed as working at heights will be restricted.
- The blowdown will be controlled by a team of sentries who will form and hold a secure exclusion zone prior to the event. Thompsons will produce a blowdown manual detailing the following

1. ***Timeline***
2. ***Roles & Responsibilities***
3. ***Structure preparation***
4. ***Exclusion Zone***
5. ***Local Receptors & Live Services.***
6. ***Countdown procedure***
7. ***Contingency – In the event of Misfire***
8. ***Contingency in the event of a stand-up***
9. ***Dust Mitigation***

#### **Post Blowdown works.**

- Following the completion of the blowdown, the remaining structure will be processed via mechanical means, using demolition spec excavators.
- Whilst the excavator machine is working within the exclusion zone, all persons other than the plant operator are excluded from the area. The Site Manager and banksmen will control this area and must be sited outside the exclusion zone with a clear view of the works. Communication between the plant operator and banksman is to be via hand signals and intrinsically safe two-way radio (operating on an approved channel). The Site Manager and banksman will also be in possession of a proximity monitor.
- Various excavators will be used to process the remainder of the structure following the blowdown. These will be fitted with a shear, grab, pulveriser attachments to process the generated material from the blowdown. Do not pull or twist large sections of the structure. Maintain a 2:1 stand-off at all times do not over-reach into the stockpile
- The Site Manager will monitor weather conditions throughout and stop work if required due to high winds.
- Ensure stockpile is worked top-down in manageable sections to ensure it does not become unstable – If any stockpiles look unstable stop work, leave the area and seek advice from Thompsons structural engineer.

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|------------------------|------------------|----------------------|----------|
| <b>Client:</b>         | TATA Steel       |                      |          |
| <b>Project:</b>        | MCO Gas Holder   | <b>Contract Ref:</b> | 22389    |
| <b>Document Title:</b> | Method Statement |                      |          |
| <b>Document Ref:</b>   | WMT/MP/22389     |                      |          |
| <b>Revision:</b>       | 01               | <b>Date:</b>         | 12/12/25 |

### 3 APPENDICES

#### 3.23 RAMS Register (to be signed prior to works)

| DATE | NAME | SIGNATURE |
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#### Question & Answer Session Conducted by:

Name: Signature:

Comments: