

1. Objective and Scope

To describe the process of safely deploying and setting out HV2 Barrier System, utilising a Crane.

2. Responsibilities

The site manager and appropriately experienced staff has overall responsibility of ensuring that all elements of this procedure are carried out.

3. General Specifications

General barrier specification are as follows:

- Galvanised Steel Construction
- Length – 5845.5mm (230in)
- Width – 450mm (18in)
- Height – 900mm (35in)
- Weight – 2150kg (4740lb)

4. Personal Protective Equipment

The following is mandatory PPE.



Boots



Eye Protection



Ear Protection



Hi Viz



Gloves



Protective Clothing

5. General Safety Points

- PPE must be worn at all times – refer point 4; and
- All operators driving a crane must hold a current valid licence.

6. Set Up and Arrival

- Ensure that you are at the correct location / site;
- Meet with appropriate personnel from site.

- Commence site specific induction process and sign in;
- Ensure Traffic Management has been appropriately set up;
- Conduct a site walk through or drive through, observing hazards such as culverts, drop offs, overhead powerlines, underground services, hydrants, ground or road conditions.



- Calculate and observe that the quantity of barriers & End Treatments is correct or measure to be accurate; and
- Prior to the actual commencement of any works, ensure that a site review has been conducted with the prime contractor no less than 24 hours prior to commencement

7. Plan the deployment (Crane Operator)

Considering all site observations, make any appropriate changes or inclusions to ensure safe deployment and placement of barriers, such as:

- Increase traffic management or taper;
- Ensure a spotter is available if required;
- Make contingencies for unworkable areas;
- Mark on road areas to avoid or navigate;



- e) Ensure freight trucks can easily access and exit the site (as you have planned);
- f) Liaise with the operator and any other dogman or assistants regarding the plan and discuss any discrepancies (document & detail these); and
- g) Communicate with the Project Manager any important deployment changes or issues and ensure any outcomes are communicated with all parties.



- e) Ensure that operators hands are well clear when connecting two barriers.



8. Safety Briefing (Crane)

- a) Conduct a safety briefing with all key parties once a plan of action has been agreed to;
- b) Discuss and demonstrate the manual handling risks;
- c) Make it clear to all parties about the pinch point hazard and clearly instruct that all hands must be clear when joining barriers; all parties involved in the actual placement of barriers must adhere to this strictly.



- d) Discuss the details of any other hazards and be sure that all parties understand what these are, and what their responsibilities are when you encounter these hazards.

9. Deployment with a Crane (such as a Franna Crane or Truck Mounted Crane)

- a) Ensure the plant operator can provide a logbook and has evidence that their equipment is appropriately maintained;
- b) Ensure any lifting chains and / or slings are in good condition serviced and tagged accordingly.



- c) Ensure crane operator is licensed for the machine and any assessments they have made around lifting & lifting thresholds are adequate.

- d) Ensure that the Dogman holds a current licence or certification;
- e) Once the crane operator understands the process, instruct the driver to move the truck to in place and then untie the load;
- f) Commence the lifting of barriers off the truck, ensuring that all assistants are well clear of the equipment and barrier in case of a failure of equipment which may result in the barrier becoming dislodged;



- g) Ensure crane operator lowers the barrier(s) before traversing to increase load stability when getting into position.



- h) Barrier Team Leader to provide all directional information and instructions to the operator so there is only 1 person communicating (Team Leader will need to remain aware of surroundings and where other people are while instructing).
- i) Deployment team must not get in between the joining barriers to avoid any crush incident.



- j) When connecting two barriers, lower the barrier to approx. 20-25mm off the ground before gently guiding the barriers together, lower them gently as they come together (allowing the barrier connectors to align, to easily slide down together to complete the connection);



- k) When barriers are being joined, the Pinch Point hazard needs to be highlighted, and all hands are to be free from barriers upon joining and away from the crush/impact area;



10. Note the following General Safety Rules

- a) No more than one barrier is to be lifted at any one time;
- b) Preferred method where available is using a single chain / middle lifting point;
- c) Only dedicated lifting points are to be used;
- d) Minimum Chain lifting load is 4T;
- e) All chains and hooks must be certified; and
- f) Picking up a barrier underneath with forklift tyres must never be considered. All lifts must be performed via a jib or crane.

SOP REVISION UPDATES

Rev 1 dated 16/03/2021

- a) New SOP