

Safe Operating Procedure #03 – Beam Line Machine & Saw

| | Activities | Procedures | Hazards/Risks | Controls |
|---|---|---|---|---|
| 1 | Check safety devices, controls, and safety barrier | Operate controls to ensure that they work correctly and check safety barrier is intact | Machine is not functioning properly. Safety barrier in operating area or fence around machine is not preventing possible entry | Check that all operators and personnel in the general area of the machine are familiar with the location and operation of all Emergency Stop buttons and other safety features of the machine. Do not proceed until Supervisor instructs you to however Supervisor must confer with Managing Director if machine appears to be faulty. Gap or weakness in safety barrier or fence to be reported to Supervisor, investigated with Supervisor and made safe before production continues. |
| 2 | Ensure that drill bit and tungsten tip are in good condition and secure | Visually and manually check that drill bit and drill tip inserts are in good order and secure | Tip or part of drill bit chips and flies out striking operator or others nearby | Drill bit to be replaced if it appears faulty and Supervisor to be informed and to document fault in Works Diary. Perspex barrier to be in place and protective eyewear with side shields to be worn by operator to protect against flying “shrapnel”. |
| 3 | Check laser safety beam is operating | Ensure that laser safety beam is operating correctly | Laser beam not operating and so entry to work area is not safeguarded | Machine not to be used and Supervisor to be informed and to document fault in Works Diary and arrange repair |
| 4 | Saw blade tension | Tension too high | Injury from saw blade | Ensure regular lubrication and correct tension and do not tension during saw operations |

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| 5 | Conveyor transferring steel | Moving parts | Crushing injuries to hands, limbs from conveyors, other moving parts and steel | Operator is to stay away from conveyors and other moving parts of the machine while it is in operation. Gates around the sides of the machine are not to be opened while the machine is in use. |
| 6 | Stand clear of machine operating area | Remain in operating area and keep behind barrier and near the machine control panel | Excessive noise (can exceed 94 decibels) | Remain in operating area at all times. Hearing protection to be used by operator or anyone else in close proximity to sealed off work area |
| 7 | Maintenance procedures - Access to electrical enclosure | Inspect or service enclosed machine electrics or belts Ensure machine is switched off during maintenance and isolate hydraulics when cleaning or servicing beam | Risk of electrocution, burns or electric shock | Lock and tag out system must be used. De-energise the machine and use a padlock to lock access to this area. The person servicing the machine should hold the key so that the power cannot be turned back on without their awareness. Only authorised and trained service personnel are to attempt to diagnose or service machine. |



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- Personal Protective Equipment that must be used:
Hearing protection, protective eyewear with side-shields, gloves, safety footwear

This SOP has been developed in consultation with me and I agree to follow it and carry out tasks in a safe manner, reporting any problems to my immediate Supervisor.

| Bundy No. | Name | Signature | Date |
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