



PIPELINE INDUCTION HEAT

We are all Responsible for Safety

ELECTROMAGNETIC FIELDS – REGULATION CHANGE

Following a recent change around the control of Electromagnetic fields (EMF) at work Regulations PIH have carried out an assessment of the hazards posed by our current working practices for induction heating. Over exposure to EMF hazards can result in detrimental health effects as shown in the below table:

Category	Example
Indirect Effects	Interference with active, passive and body worn medical implants Electric Shocks Potential fire hazards caused by induced fields
Sensory Effects	Nausea, vertigo, metallic taste and flickering sensations (magnetophosphenes)
Health Effects	Nerve stimulation, tingling, muscle contractions and heart arrhythmia

In accordance with our Management of Change (MOC) procedure the Engineering team are currently investigating technical improvements to reduce the levels of EMF exposure to our operatives, as an additional precautionary measure the below controls should be implemented with immediate effect.

CONTROL MEASURES

- A safe work zone should be established to create a restricted area of 0.5m in all directions from the extremities of the coil structure during the coil operation.
- Where practical the area should be clearly marked or physical barriers used to control the work area. Where this is not practical then the area should be controlled by PIH supervisor and/or coil operatives during coil operation.
- One operator is permitted to enter the area for short periods in order to monitor the temperature of the pipe using thermometer or observing tempilstick marks, this task should be rotated when possible.
- Care should always be taken to ensure pipe is not overheated.



- ▶ WHAT CAN YOU DO TO CREATE A SAFER WORKPLACE?
- ▶ CAN YOU DO THINGS DIFFERENTLY?
- ▶ CAN YOU DO DIFFERENT THINGS?
- ▶ WILL YOU MAKE AND MEET COMMITMENTS TO SEEK OUT BEST PRACTICES AND PUT THEM TO USE?

GETTING THE JOB DONE SAFELY : EVERYWHERE ON EARTH