

Task Risk Control Sheet

Entry into Confined Spaces

RCS No: NR/L3/MTC/RCS0216/GA09
Issue: 2

Key Risks !

- Fire / Explosion
- Loss of Consciousness
- Asphyxiation
- Flooding / Drowning

Personnel Involved

E&P	✓
S&T	✓
Track	✓
Off Track	✓
Property	✓

Tools / Equipment

Harness Tripod*

Winch*

Torch/Hat Lamp

* If Required

Plant

None

Key Risks	Controls	Implemented By
Entry to confined spaces – All Tasks	<ul style="list-style-type: none"> • All entry to confined spaces shall be performed in accordance with Network Rail Standard Maintenance Procedure NR/L3/MTC/SE/0115 - Confined Spaces and Entry Procedure with a Permit to Enter Confined Spaces issued • A site specific risk assessment and Safe system of work shall be in place before any work is performed • An Appointed Person shall be appointed to oversee and implement a safe system of work prior to entry to confined spaces • Only staff specifically trained to enter confined spaces shall do so • Emergency rescue arrangements (including fire and first aid arrangements, rescue equipment) shall be in place prior to and whilst all work is performed within the confined space • All confined spaces access points shall have suitable barriers in place to prevent access by the public, etc, these points shall be monitored to prevent unauthorised access during use • All confined spaces access points shall be suitably guarded to prevent unauthorised access when not in use • Staff shall be Medically Suitable to carry out task 	Line Manager / All Staff / COSS / Team Leader
Entry into confined spaces including: <ul style="list-style-type: none"> • Presence of gas / fumes • Oxygen deficiency (due to inert gas purging or oxidation on the inside of steel tanks • Gas / vapour entering from other activities 	<ul style="list-style-type: none"> • A test of the confined space shall be performed, prior to entry, using a calibrated gas monitor meter • Where gas or fumes are present then: <ul style="list-style-type: none"> ➢ Ventilation (such as force ventilation with fans or compressed air) of the confined space shall be performed, with purging of the space with an inert gas where necessary ➢ Entry to the confined space shall be with breathing apparatus only by staff who have specifically been trained in the use of breathing apparatus • Where other process may produce gases or fumes then: <ul style="list-style-type: none"> ➢ Isolate other potential processes that may produce gas or vapours – Lock off at the control valves and physically isolate any pipework ➢ The permit to work system shall check that all potential processes are recorded as being locked off • After ventilation, purging, isolations, etc a further test shall be performed of the confined space using a calibrated gas monitor meter 	Trained and competent person

Key Risks	Controls	Implemented By
Working in confined spaces including: <ul style="list-style-type: none"> Fumes generated from sludge deposits Presence of toxic substances / vapours Gas or methane present or seeps into confined space Fumes produce from processes (i.e. welding, flame cutting, painting, solvents, adhesives) Use of generators within confined space Use of oxy-propane 	<ul style="list-style-type: none"> Where sludge is present: <ul style="list-style-type: none"> ➢ Check that a sample of the sludge is tested prior to entry – Contact the Route or Delivery Unit Infrastructure Maintenance Workforce Safety Advisor Where toxic substances or vapours are present: <ul style="list-style-type: none"> ➢ Force ventilate the confined space using fans or compressed air Where gas or methane are present: <ul style="list-style-type: none"> ➢ Conduct research of adjacent land for possible sources – Isolate where possible ➢ Force ventilate the confined space using fans or compressed air Where fumes are produced during work activities: <ul style="list-style-type: none"> ➢ Ventilate the area prior to entry and continue to provide ventilation / local exhaust ventilation during work ➢ Implement a permit to work in the event of any hot work being performed (in addition to a permit to enter confined spaces) Where generators or oxy-propane are used during work activities: <ul style="list-style-type: none"> ➢ Petrol or diesel driven generators shall not be used within confined spaces ➢ Provide additional ventilation when generators are used so that an adequate supply of fresh air is available at all times <i>For all the above categories entry to the confined space shall be with breathing apparatus only, by staff who have specifically been trained in the use of breathing apparatus and a further test shall be performed of the confined space using a calibrated gas monitor meter after control measures are put in place</i> 	Trained and competent person
Working in confined spaces including: <ul style="list-style-type: none"> Unexpected egress of water Contact with electricity / machinery Exposure to excessive heat Overcome by dust / fumes Contact with free flowing solids / biological substances 	<ul style="list-style-type: none"> Where unexpected water egress may occur then: <ul style="list-style-type: none"> ➢ Conduct research of adjacent land for possible water sources and isolate / divert water courses where possible ➢ Check weather forecasts prior to entering confined spaces – If heavy rain is forecast do not commence work before or during the heavy rain or a period afterwards ➢ Do not enter confined spaces where there is a fast flowing water course Where contact with electricity or machinery is possible then: <ul style="list-style-type: none"> ➢ All electricity and machinery within confined spaces shall be isolated and locked off before entering confined spaces ➢ The permit to work system shall check that all potential processes are recorded as being locked off Where staff exposure to excessive heat from plant or work activities is possible then: <ul style="list-style-type: none"> ➢ Check that an adequate supply of fresh air is available at all times ➢ Monitor the temperature within the confined space at all times and remove staff if the working temperature rises too high ➢ Check that staff take regular breaks – Rotate staff where necessary ➢ Provide hot or cold liquid refreshments Where staff may be overcome by dust and fumes then: <ul style="list-style-type: none"> ➢ Dust shall be extracted or damped down prior to entry ➢ Dust sampling shall be performed by a competent person prior to entry – Contact the Area Maintenance Workforce Safety Advisor ➢ Provide local exhaust ventilation and respiratory protective equipment (RPE shall only be provided as a last resort only) 	Trained and competent person