Task Risk Control Sheet

Network Rail

Live Booster Transformer Oil Sampling

RCS No: NR/L3/MTC/RCS0216/LW01
Issue: 2

Key Risks!

- **Electrocution**
- **Encroachment**
- **Complacency**
- **Falls**

Personnel Involved		
	E&P	✓
	S&T	
	P/Way	
	Off Track	
	Property	

Plant/Tools / Equipment			
	Non conducting Ladder	Paint brush	Wooden batten
	Oil Sample bottles	Red Paint	Adjustable spanner
	Clear plastic bag	Bottle tags/labels	

Key Risks	Controls	Implemented By
Electrocution Danger of Death	• Site specific assessment of each individual booster to confirm safe ladder access (including any T2 requirements) and the risk of encroaching within 2.75 metres (9 feet) of equipment on adjacent lines. • Record assessment on table 1 below	Distribution Supervisor
	• Production / Maintenance of a list of booster transformers for which live oil sampling is prohibited.	E&P Engineer
	• Check booster transformers can be sampled live, refer to list to confirm	Planning Team
	• Over a four year period the limits of safe working shall be identified by painting a demarcation line on the transformer tank (At first visit) (in the meantime refer to the diagram below).	Staff
	• Work shall not be attempted if 900 mm (3 feet) clearance cannot be guaranteed or if the ground is not suitable	Distribution Supervisor
Lack of Competence	• The Distribution Supervisor that performs the site specific assessment shall be Level A competent in accordance with NR/SP/ELP/21070.	Section Manager
	• Staff taking oil samples shall be minimum Level B Distribution staff.	Staff
Falls	• Safety harnesses shall be worn • Safety harnesses shall be attached whilst taking oil sample (above work point where possible **but not above the demarcation line**). • Tool / equipment belts shall be used to secure tools. • Ladders shall be footed at all times unless lashed.	Staff
Loss of Control Encroachment	• Minimum 2 man team required.	Team Leader
	• Access is only permitted from the rear or side of the transformer. • Staff footing the ladder shall monitor that the demarcation line is not infringed	Staff
Dermatitis. Contact with PCBs which cause cancer	• Establish PCB population and affix warning notices on transformers containing PCB contaminated oil.	E&P Engineer
	• Use of lightweight safety glasses, barrier creams and /or gloves whilst taking samples. • Do not smoke, eat or drink until hands have been washed • Place the sample in a clear plastic bag	Staff

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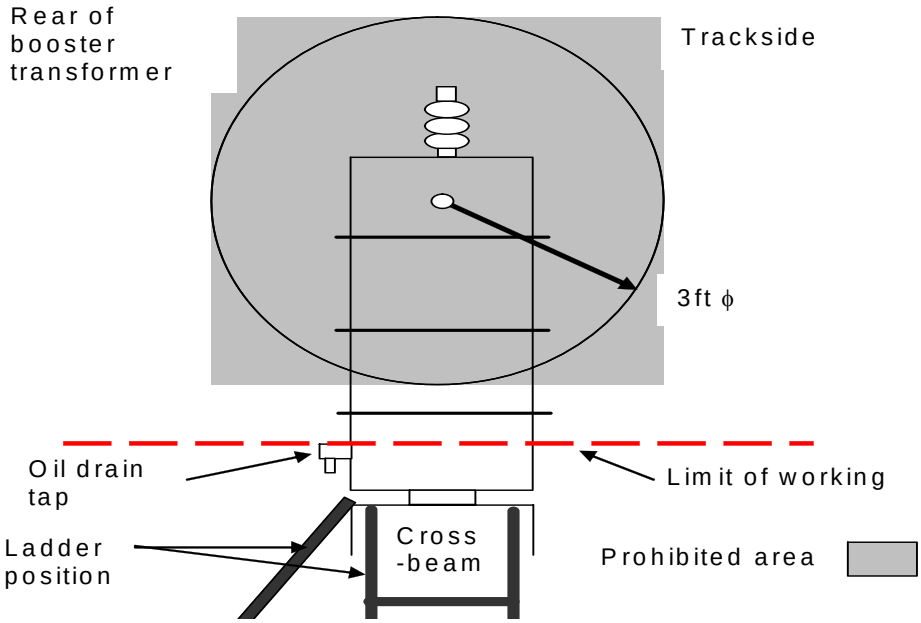
Task Risk Control Sheet

Table 1: Booster Transformer assessment

Structure No.			Nearest track to booster e.g. Up Main		
Access to track suitable for ladder?	YES	NO	Safe access along walking route to booster?	YES	NO
Access to rear/side of booster?	YES	NO	Oil sample tap at rear/side of tank?	YES	NO
Can 900mm (3feet) be maintained from live equipment?	YES	NO	Suitable ground behind/ alongside booster?	YES	NO
Adjacent lines requiring T2?	YES	NO	Harness fixing point on structure?	YES	NO

Figure 1: Side view of booster transformer



PPE Required by NR / Maintenance Policy

Wear Head Protection

Wear Foot Protection

Wear Hi Visibility Clothing

Wear Safety glasses to BS EN166.F

If safety glasses introduce a risk (ie weather conditions) then the Team Leader shall assess the risk. The outcome of the assessment shall be recorded on the SSOWPS pack and safety glasses may be removed.
This does not supersede the requirements for eye protection detailed on relevant Task Risk Control Sheets.

Additional PPE Required by Task Risk Control Sheet

Wear Hand Protection

Wear Eye Protection BS EN166.F

Wear Safety Harness

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