

G1251

TANC Guidance Note

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1 Purpose

- 1.1 The purpose of this Guidance is to provide information for the completion and management of Temporary Approved Non Compliance (TANC) signalling assets in accordance with LU category 1 standard S1642 The Management of Temporary Approved Non - Compliance (TANC) and work instruction W0539 Signals - Temporary Approved Non - Compliance (TANC).

2 Scope

- 2.1 This Guidance applies to all signalling assets as defined in Signal Maintenance Regime R0111 on the LU network associated with SSL and BCV.

3 Guidance

3.1 Introduction

- 3.1.1 This guidance provides information for the management of signalling TANC and includes an example of a signals and control TANC form F0601 complete with guidance notes within the specific sections.
- 3.1.2 This guidance should be read in conjunction with the TANC Work Instruction W0539 Signals - Temporary Approved Non - Compliance (TANC).

4 Sample TANC form with guidance

- 4.1 The guidance notes for completion of the TANC form are shown in RED on the sample TANC form attached. The guidance statements on required actions are an example. The TANC Authorised person (TAP) and the TANC Accountable Manager (TAM) will consider local knowledge of the location and asset condition when assessing the required controls to support the TANC Management Plan.
- 4.2 Sample Form

Insert a unique identifiable number such as TANC Ref: R975-TC-152

Part 1: General details

Q1: How was the non-compliance identified? <i>e.g. By ELLIPSE (specify printout) or by annual inspection (specify report)</i>		Q2: When was the fault identified? Date: <i>This is the date you became aware of a non conformance</i>		Q3: When did the fault become non-compliant? Date: <i>Insert the date last maintenance was completed</i>							
Q4: Who is the TANC Authorised Person? Name: <i>Name of authorised person</i>		Q5: Where is the non compliance? Line / Station / Depot BRS/LCS Code/Road		Q6: Standard details <table border="1"> <tr> <td>Standard:</td> <td><i>Use the Cat 1 standard number e.g. S1642</i></td> </tr> <tr> <td>Revision:</td> <td><i>Revision e.g A3</i></td> </tr> <tr> <td>Clause:</td> <td><i>Clause e.g 12.1</i></td> </tr> </table>		Standard:	<i>Use the Cat 1 standard number e.g. S1642</i>	Revision:	<i>Revision e.g A3</i>	Clause:	<i>Clause e.g 12.1</i>
Standard:	<i>Use the Cat 1 standard number e.g. S1642</i>										
Revision:	<i>Revision e.g A3</i>										
Clause:	<i>Clause e.g 12.1</i>										
Q7: a. Describe the non-compliance: <i>List the exact details e.g 10 track circuits not maintained</i>											
Q7: b. What other influences are there that could increase safety risk?											
Location: Tunnel or Open Section	Asset :	Asset Identification number: <i>e.g AA12 – AA29</i> Number of items non-compliant: <i>e.g 18</i> Plain Line, junction or other.		Influencing Features	Adjacent asset: <i>e.g None</i> Operations: <i>e.g None</i>						
Other -											

Q8: Based on your inspection and judgement, is it credible, considering the conditions of the surrounding components that this non compliant condition could lead to injury or death to staff or customers?

For all safety related non maintained signalling assets the answer must be YES

If your answer is NO, go to Q10

Part 2: Potential outcome of higher risk non-compliance (No Controls)

Q9: How could this non-compliant condition lead to injury or death? -----

List the worst WSF scenario, i.e track circuit shows clear when occupied resulting in collision

If it impacts on any of LUL's top event risks, indicate which Top Event may be affected.

Arcing	☐	Escalator incidents	☐	On-train incidents	☐	Structural failure	
Collision hazard (e.g. with objects)	☐	Explosion	☐	Platform train interface	☐	Train fires	
Collision of two trains	☐	Flood	☐	Power	☐	Tunnel fires	
Derailement	☐	Lift fires	☐	Station area accident	☐	Unauthorised access	
Escalator fires	☐	Lift incidents	☐	Station fires (e.g. interlocking room)	☐	Ventilation hazard (e.g. train stalled below ground)	

Q10: Pick the most realistic numerical value from Table 1.

Select a value for the conditions that exist without controls, even if controls have been applied

Score: *Number must be between 1 and 5.*

Q11: What is the likelihood of the incident occurring, given the condition you have chosen in Table 1? Choose the most likely statement in Table 2

Select a value for the conditions that exist without controls, even if controls have been applied

Score: *Number must be between 1 and 5*

Q12: Using the numbers obtained from the risk rating tables, multiply these to produce the risk value for the conditions that exist at present without controls.

$(Q10 \times Q11 = Q12)$ Risk value: *Number must be between 1 and 25. According to the score (1 – 25) tick the appropriate box – “Low risk”, “Medium risk” or “High risk”*

Low Risk	Medium Risk	High Risk
If 1 or 2, consider controls, go to Q13 Or if no controls go to Q18	3 to 10, some controls required	12 or more, controls must be introduced to reduce risk

Part 3: Controls to be put in place

Q13: What controls are going to be put in place to reduce the risk associated with the non-compliance? They must be practical, achievable and sustainable

List all measures that lower the risk e.g

All track circuits are being maintained to the 12 weekly maintenance plan; they were maintained on the last routine maintenance cycle and are recorded on Ellipse.

Technical Officers will observe track circuit operation to ensure that the circuit de-energises with the presence of a train (no multiple TKEs can be used for this check)

P-way inspection of rails to ensure optimum wheel rail interface on a 48 hourly basis

Q14: Explain how these controls will reduce the risk.

E.g

Track circuits to be inspected every 12 weeks as per maintenance regime to ensure all components remain in good condition.

Track circuit observations during operational moves will give assurance of train detection via track relays.

Part 4: Potential outcome of non-compliance with controls in place

Repeat the numerical risk assessment

Q15: With these controls in place to reduce risk, now repeat assessment. Pick the most realistic condition in Table 1.

Total: *Number must be between 1 and 5*

Q16: What is the likelihood of the incident occurring with the additional controls in place, given the condition given in Table 1? Choose the most likely statement in Table 2.

Score: *Number must be between 1 and 5*