

What's happening?

Best Practice on TLP KO2

HVAC VS FORCED AIR ON REBS

Overview:

Siemens Rail Automation instigated a proposal to replace the HVAC units on some or all of the TLP KO2 Relocatable Equipment Boxes (REBs) with Forced Air units. Forced Air technology has been implemented by Network Rail Asset Maintenance in similar equipment in recent years.

Thermal and humidity profiling of a typical TLP REB was completed as part of the study, as well as obtaining data from 'BF26 REB' to inform modelling work.

Benefits:

- A saving of **555,000 kg CO2-e per annum** of in-use energy

Challenges:

- Lack of awareness by Executive Management of project and hence lack of drive for final decision
- Clear defined deadline for a decision to be made, ownership and communication of that deadline
- Lack of stakeholder management plan and RACI

In November 2013, following an absence of formal decision by Network Rail, SRA were instructed by Network Rail's Project Director (Railway Systems KO2) to spec all REBs with HVAC

Meeting our Objectives & Targets:

- This initiative is aligned with TLP Sustainability Strategy *Objective 15* 'to minimise the levels of carbon generated over the whole life of TLP' and associated *TLP Delivering Carbon Emissions Reduction Policy*
- SRA and Network Rail have shared lessons learned from this exercise



Figure 1. HVAC on REB



Figure 2. Force Air on REB