

**Plant Approval Certificate**  
Track plant or equipment

Track maintenance plant and equipment submitted for Plant Approval must comply with the appropriate statutory regulations, LU standards and the requirements of this certificate. It is the responsibility of the Project Manager to ensure that the plant/equipment submitted for approval is compliant with the regulations and standards of the above companies. Plant and equipment approval requirements are defined in LU standard 1-172 'Plant Tools and Equipment - Performance and Design'. Note 1. If this plant is defined as a rail vehicle, Approval must be granted by the Rolling Stock Engineer LU before it is allowed to run on the LU rail system. Note 2. Approved plant must meet the inspection and maintenance requirements of LU standard 1-173 'Plant, Tools and Equipment - Inspection and Maintenance'. Note 3. Operators must be trained and certificated TE-QAS-0302 Note 4. Diesel engine powered plant must conform to the requirements of LU QUENSH conditions Ref. 2-05104-432

**Description:** Cable Avoidance Tool.  
**Make:** Radiodetection  
**Model:** RD8000  
**Identification Number:** Generic  
**Type of operation:** Scanning to detect cables and pipes underground.  
**Area of operation:** On LU property. 1. Away from the Track and greater than 3m from a running rail. 2. On The Track and within 3m of the running rail, with Traction Current OFF.

**Operational limitations or Conditions:**

1. The RD8000 locator (scanner) must have EC certification and carry the CE mark.
2. The RD8000 must be subjected to routine maintenance and be marked with a unique number and the "Next Service Due" date.
3. The RD8000 must be free from damage and be in good working order.
4. The RD8000 may be used either in Passive Mode or with an LU approved transmitter (Genny)..
5. The RD8000 may only be used in well ventilated locations where there are no trapped or pooled hazardous gases.
6. The operator must be trained by Radiodetection trainer or a trainer accredited by Radiodetection. The operator must demonstrate his competency and be signed off by the responsible manager.
7. Batteries must be disposed of in special battery bins provided in depots and other strategic locations. This is a legal requirement.
8. Any notifiable incidents involving the RD8000 on LU must be copied to Track Assessment - LU.

**Other Information:**

Note 1. In some circumstances underground cable may not be picked up by the RD8000 in passive mode. It is recommended that the area to be excavated is scanned before starting to dig.  
 Note 2. The RD8000 should not be used in areas of high interference as this may cause misleading indications.  
 Note 3. The RD8000 is fitted with a Class 1 Bluetooth device.

**Type of Approval:** Limited Operational Approval - Test/ trial  
**Powered By:** Battery  
**Documents to be read as part of this certificate:** 1. The Method Statement for the work to be done.  
 2. Operating Instructions.  
**Period of certification:** 10/09/2012  
**Certificate Number:** Plant/9177\_Rev.02

**Signed:**  **Date:** 23/04/2012  
**WJ Meyers - Track Assessment Engineer**