

**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 - transmitter, using 33KHZ signal at 0.1W
Make: Radiodetection
Model: Genny 4
Identification Number: Generic
Type of operation: Used with a receiver to detect concealed cables and pipes below ground.
Area of operation: For use on LU property. See conditions below for the area of operation.
Operational limitations or Conditions:

1. The Genny 4 may only be used in Induction Mode using a signal frequency of 32.768 KHZ. The power and radio modes must not be used. No direct connection may be run from the Genny 4.
2. The Genny 4 may only be used in Engineering Hours with the traction current OFF, in the following areas:
 - i) With no trains or on-track plant programmed to run in the area of operation, the Genny 4 may be used, on the Track, away from the Track, or on station platforms.
 - ii) With trains or on-track plant operating on the Track, the Genny 4 may be used away from the Track, at a distance greater than 3m from the nearest running rail, and on station platforms.
3. The Genny 4 must not be used in any rooms or temporary accommodation where mobile transmitters are banned.
4. The Genny 4 must be marked with a unique identification number, be recalibrated annually and marked with a "next calibration due" date.
5. The operator must be trained by Radiodetection Limited or a trainer accredited by Radiodetection. He must demonstrate competency and be signed off by the responsible manager.
6. A Protection Master must confirm the status of Track in the area where the Genny 4 is to be used. Namely that:
 - i) The traction current is OFF.
 - ii) Trains or on-track plant are/are not, programmed to operate on the Track.
7. When used on the track, appropriate protection must be in place.
8. This certificate must be made available to the operator and supervising staff on the work site.
9. The Site Person in Charge or Responsible Person shall ensure compliance with the conditions of this certificate on the work site.

Type of Approval: Limited Operational Approval - Test/ trial
Powered By: Battery
Documents to be read as part of this certificate: 1. The operating instructions for the Genny.
Period of certification: 31/10/2012
Certificate Number: Plant/9189_Rev.00

Signed: 
Date: 13/04/2012
WJ Meyers - Track Assessment Engineer