

INSTABOOM controlled traffic lights securing East Leeds orbital route haul crossing



Case Study

Balfour Beatty faced a major construction safety problem on the **East Leeds Orbital Route (ELOR)** project. The main construction haul routes had to cross live, two-lane traffic. They needed both **traffic light control** and a **physical barrier** to eliminate the **possibility of construction traffic missing the light signals** and entering an **uncontrolled live lane**. With a short project length, they also needed a **cost effective** solution, fast.

Always ready to solve a one-off problem, the **SG** technical team integrated the Highways England award winning, solar hybrid, **INSTABOOM™** barriers to a standard traffic signal crossing system. The resulting combination ensured the **INSTABOOM™** barriers held haul route traffic until the traffic signals had closed the live lanes and the haul route signals were green.



Realising that none of the standard temporary traffic signals on the market had the ability to integrate with third part equipment, the **SG** team had to get out of the box and come up with a work around with fail safes. Once a prototype crossing had been proved and installed, the ELOR site rolled out the solution to both haul route crossings using 8 **INSTABOOM™** barriers and 16 traffic lights. ***‘Our final solution changed what the traffic signals manufacturer saw as a complicated scenario to a very simple and inexpensive solution. We simply connected the standard INSTABOOM™ anti-incursion barrier to the green light, facing construction traffic, to open the barriers when it was safe to do so’*** explains Christopher Long, Operations Manager, SG.

‘Working with the Solar Gates team on this site was just what I needed’ explains Jim Ditchburn, site manager, Balfour Beatty, ELOR. ***‘We had the traffic light controls in place, but needed to add additional safety to prevent the chance of drivers of large construction vehicles missing the line of sight to the standard traffic lights. After a short meeting on site, the INSTABOOM™ team rigged up a work around in under an hour and we had our answer. Within 2 weeks, we had converted both crossings to barrier controlled traffic lights and had a much safer site as a result’*** concluded Ditchburn.



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Key Facts:

- **Incursion risk removed** – physical barrier backs up traffic light signals.
- **Custom integration** – standard signals connected to INSTABOOM anti-incursion tech.
- **Fast turnaround** – prototype proven and rolled out within two weeks.
- **Cost-effective fix** – simple solution avoiding complex bespoke engineering.



Balfour Beatty, ELOR project

Haul routes crossing live two-lane traffic.



INSTABOOM Barriers integrated

With standard traffic signal crossings.



Full rollout

8 INSTABOOM barriers, 16 traffic lights across both crossings.



Rapid delivery

Workaround rigged in under an hour, converted within two weeks.



For more information call: 01622 534000 or visit: www.solargates.co.uk