

CASE STUDY

INSTABOOM® controlled traffic lights securing East Leeds Orbital Route haul crossing

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.



INSTABOOM® helps highways sites to:

- Eliminate manned security, **SAVE MONEY**
- Cut incursions, **PROTECT STAFF**
- Provide an instant road **CLOSURE TO OVER HEIGHT VEHICLES, GS6 protection**
- Save carbon, **HELP THE ENVIRONMENT**
- Deploy work area safely, fast and flexibly, **SIMPLE** for all site personnel

Always ready to solve a one-off problem, the Solar Gates UK 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 Solar Gates 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 INSTABOOM® controls to the green light, facing construction traffic, to open the barriers when it was safe to do so”** explains Christopher Long, Operations Manager, Solar Gates UK.



“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.