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Innovation and Business Improvement at Balfour Beatty

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Innovation owner:

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Name: Darrell Taylor

Role: Site Oprative

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Project: A1CH2MC

Client: Highways England

Keyword search:

Discipline: Civil Engineering

Business Unit / Opco: CSUK

Location: Federation Brewery Compound Gateshead NE8 4RT

Sector: Highways

Supporting doc details

Case Study:

Title: ...Reducing the risk from people and plant interface

Case study type: Lean / Best Practice / Innovation?

Description:

What is the innovation:

A lighting system which is directly linked to the machines solenoid which illuminates when the dead-man switch is activated isolating the machine.

What prompted the innovation:

Due to advances in technology new excavators cannot be turned off immediately due to turbo cool down periods and filter regeneration. PPI procedure cannot be met therefore a new lighting system has been designed to give visual indication the excavator is fully isolated.

How is the innovation implemented:

The light is directly linked into the excavator computer system to ensure it is tamper proof and accurate. The A1CH2MC worked with Addisons to manufacturer and implement a trail into two excavators currently being used on t he site.

Were there any risks/issues/departures:

Our current PPi procedure states that for pedestrians to enter an exclusion zone around an excavator the bucket must be grounded, the ignition turned off and key removed. Due to advances in technology newer excavators cannot comply with the PPI procedure.

Is this innovation linked to other best practices/innovations:

No

Applications:

Repeatability:

Yes

Collaboration & Sharing:

Yes with Balfour Beatty, our client and Addisons

Recognition & Awards:

The innovation has been entered into the national observation card winners award

Influence & Deployment:

Upon completion of the trial: Implementation site, regional and national level

Possible Benefits:

- to project, BB, Customer, and/or Public

Health & Safety	Time	Cost	Quality	Sustainability & Environment	Journey Time
1.Significant improvement in operative safety. 2. Instant identification of isolated excavator 3. Reduction on plant repair as less start and stop of the engine. 4. Best practice 5. Supporting operative ideas and implementing 6. Demonstration of good workforce engagement.	Reduced stand-time due to instant identification of isolated excavator.	£350 incl VAT per excavator	1.Reduction in stand time of the excavator and repairs. 2.Enhanced H&S measures. 3. Best practice shared.	Once fitted the innovation will be used on projects going forward. As the plant belongs to Addisons the innovation will be shared with a number of contractors on various schemes and locations.	N/A

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Balfour Beatty