

Demolition Monitoring

Blast monitoring for explosive demolition



Reference: B-005

Project Details:

Location: Milford Haven, United Kingdom
Client: WRD Decommissioning
Dates: 2019
Sector: Monitoring

Brief Description:

Vibration and air overpressure monitoring for the controlled demolition of two chimney stacks at a disused oil refinery facility.



Detailed Project Description:

A facility based on Milford Haven was historically an oil refinery, under new ownership the site was in the process of being converted for petroleum storage. As a part of conversion works, two chimney stacks were designated to be decommissioned by controlled demolition employing a series of above ground nitro-glycerine charges.

In the immediate vicinity of each chimney stacks, there were different types of structures such as storage tanks, electrical sub-stations and occupied buildings. Due to the use of above ground charges and the close proximity of the different structure types, each structure was considered to be a vibration and air overpressure sensitive receptor.

Therefore vibration and air overpressure monitoring was required to demonstrate that no structural damage had occurred to any structure. Blast Log was engaged to carry out the demolition monitoring at 9 locations (selected by the client) within the oil refinery compound.

Post blown down, a short report was produced that included details on the monitoring carried out with the vibration and air overpressure results collected, summary and recommendations.

Key contact:

Dr. Shazad Hosein, Director. E-mail: shazH@blastlog.co.uk



Oxfordshire Office:
Upton House, Market Street, Charlbury
Oxfordshire OX7 3PJ, United Kingdom
tel +44 (0)1608 810374
fax +44 (0)1608 810093

Leeds Office:
Albermarle House, 30 Grovehall Parade, Beeston
Leeds LS11 7AE. United Kingdom
tel +44 (0)1133 859870

e-mail info@blastlog.co.uk
web www.blastlog.co.uk

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