EXPLORIVES FOR CIVIL USES

1 - ADDITION C1 TO THE EC TYPE-EXAMINATION CERTIFICATE

2 - 0080.EXP.98.0027

3 - This certificate is relating to the following product:
   Bi directional booster Z 908

4 - This product is manufactured by:
   DYNAenergetics GmbH & Co. KG
   Kaiserstr. 1
   53839 TROISDORF (GERMANY)

The applicant for the examination is:
   DYNAenergetics GmbH & Co. KG
   Kaiserstr. 1
   53839 TROISDORF (GERMANY)

5 - The above named product is specified in the enclosed appendix.

6 - The National Institute for Industrial Environment and Risk (INERIS), notified with the identification number 0080 in accordance with the article 6.2 of the Council Directive 93/15/EEC, 5 April 1993, testifies that:

   The above named product model is recognized to conform to Essential Safety Requirements as defined in annex I of that Directive.

7 - In addition to the EC type-examination (module B) defined in annex II of the Directive, the applicant has retained the assessment of the production quality assurance (module D) defined in the same annex. In compliance with para 3.3 of module D, the decision for the assessment has been notified to the manufacturer.

8 - This addition is to be attached to the certificate 0080.EXP.98.0027, dated December 22, 1998.

Verneuil-en-Halatte, September 22, 2005

The Chief Executive Officer of INERIS
By delegation, the Director of Government Laboratories

C. MICHOT
Appendix to the addition C1 to the EC type-examination certificate nr 0080.EXP.98.0027

A1 - PRODUCT NAME: booster named bi directional booster Z 908

A2 - PRODUCT DESCRIPTION:

general identification:
- family: detonating booster
- sub-family: instantaneous booster for detonating cord
- explosive: HMX, graphitized
- explosive mass: 0.6 g
- total mass: 1.15 g
- nature of case: aluminium alloy
- manufacturer's reference: HMX - Booster (Z 908)

characteristics:
- transmission: one strand of detonating cord to another strand of detonating cord or to another booster

general conditions:
- shelf life: 5 years
- limit temperature for use: 205°C/1 h
- limit temperature/hygroscopy for storage: +30°C max/65% RH max

A3 - DOCUMENTATION:

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A4 - PARTICULAR CONDITIONS FOR USE:
as specified by the manufacturer for use in oil well industry

A5 - MARKING:

- CE and symbol of Notified Body: in conformity with para 1 of module D in annex II of the Directive
- others: batch number, certificate nr