CLASSIFICATION OF EXPLOSIVES
FIRST REVISION

Based upon a request by DYNAenergetics GmbH & Co. KG (formerly Dynamit Nobel GmbH), Kaiserstr. 1, Troisdorf, 53839, Germany the following items are classed in accordance with Section 173.56, Title 49, Code of Federal Regulations (49 CFR). A copy of your application, all supporting documentation and a copy of this approval must be retained and made available to DOT upon request.

U.N. PROPER SHIPPING NAME AND NUMBER:
Detonators, electric for blasting, UN0456

U.N. CLASSIFICATION CODE: 1.4S

REFERENCE NUMBER: EX1999110035
PRODUCT DESIGNATION/PART NUMBER: Instantaneous detonator Dynawell 1019S in Division 1.4S Packaging

NOTES: This classification is only valid when the electric detonators are packaged in the following explosion-resistant packaging: Inner Packaging: A wooden trayblock consisting of multi-layers of plywood with slots for each detonator evenly spaced not less than 25 mm apart (center to center) which encases not more than twenty-eight (28) detonators in a 4x8 array, and with a plywood pad not less than 25 mm thick positioned below the output ends of the detonators. The plywood trayblock and pad is sandwiched between steel plates and securely bolted together. Outer Packaging: Specification 4A steel box lined with plywood not less than 15 mm thick on all sides, each containing not more than one inner packaging supported by its bolt extensions so as to prevent movement during transport. This classification is based upon testing which satisfies the UN 6(d) test criteria.

DATED: 03/25/2011

For Dr. Magdy El-Sibaie
Associate Administrator for Hazardous Materials Safety