EVALUATION OF SCHEDULE IV-TYPE CONTAINERS

E. Contestabile, R.A. Augsten, D. Wilson, T.R. Craig,
E. Nagy, R. L. Guilbeault , and R.R. Vandebeek

Canadian Explosives Research Laboratory
Mining Research Laboratories, CANMET
Energy, Mines and Resources Canada
Ottawa, Canada

ABSTRACT

The Canadian Explosives Research Laboratory (CERL), is evaluating the status of the Schedule IV explosives container as it presently pertains to the industry. The Schedule IV container serves the same purpose in Canada as the IME 22 container does in the United States. That is, to transport detonators on the same vehicle which is carrying explosives.

In this paper, the results of preliminary burn trials on Schedule IV containers or their equivalent are reported. All tests were fully instrumented and video-taped. The study evaluates the effect of full and partially full containers, the packing density of detonators, and electric versus non-electric detonators. Some comparisons are also made between Schedule IV container and IME 22 container burn test data. In view of the results obtained from this study and the availability of new insulating materials, suggestions are made for improving this type of container.