Internet Applications for Predicting Blast Damage
Blast Standoff Application

Researchers at the Army Engineer Research and Development Center (ERDC; Vicksburg, Mississippi) developed the Blast Standoff Application which provides rapid calculation of recommended separation/ standoff distance needed for a protected asset against an explosive threat (Figure 1). The application calculates minimum standoff needed for typical base camp assets and explosive blast events. The application uses data and algorithms used in other engineering analysis applications, such as iso-damage curves from ERDC's Anti-Terrorism Planner and the barrier damage algorithm from ERDC's Barrier Damage Assessment Module. The Blast Standoff Application can be found on the U.S. Army Corps of Engineers Reachback Operations Center Reachback Engineer Data Integration Force Protection Portal (https://erdc-fp.usace.army.mil).

Development of this application was sponsored by the Deputy Assistant Secretary of the Army for Research and Technology and carried out at ERDC, Geotechnical and Structures Laboratory.
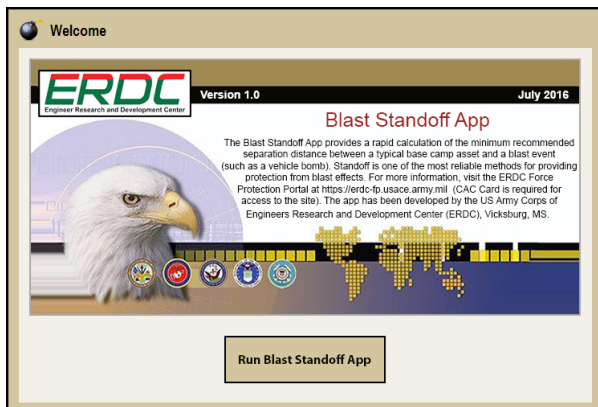
FIGURE 1: Opening screen of the Blast Standoff Application (Figure used with permission from the authors)