

UPDATE OF UFC 3-340-01 DESIGN AND ANALYSIS OF HARDENED STRUCTURES TO CONVENTIONAL WEAPON EFFECTS

K. Crane¹, J. Geringer², B. Heard¹, G. Vankirk¹

¹USACE ERDC, 3909 Halls Ferry Rd, Vicksburg, MS 39180, USA.

²USACE PDC-MCX, 1616 Capitol Ave, Omaha NE 68102, USA;

Key words: <Blast Protection, UFC 3-340-01, Weapon Effects, Instructure Shock, fragility>

ABSTRACT

The United States Army Corps of Engineers (USACE) is updating the Unified Facilities Criteria (UFC) 3-340-01¹, a critical technical manual for designing and analyzing hardened structures to resist conventional weapon effects. The UFC has several shortfalls, including outdated design methods, software, unaddressed criteria change requests and inconsistencies with modern definitions and standards. The updated UFC will include modern design methods, equations, definitions, and criteria for resisting weapon effects. The update will also benefit other related documents, as an effort of this scale has yet to occur in decades. The USACE will coordinate with stakeholders to incorporate research and development, address criteria change requests, and support military construction for the future.

[1] UPDATE OF UFC 3-340-01 DESIGN AND ANALYSIS OF HARDENED STRUCTURES TO CONVENTIONAL WEAPON EFFECTS, DOD Unified Facilities Criteria, 30 June 2002 [1 June 2002].

<https://wbdg.org/ffc/dod/unified-facilities-criteria-ufc/ufc-3-340-01>