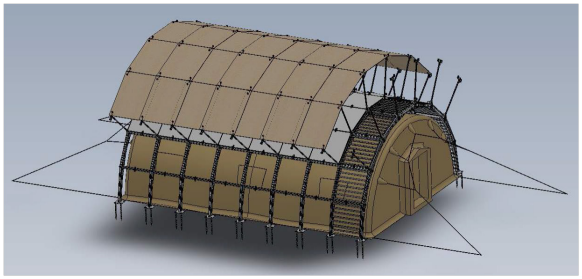
OVERHEAD THREAT PROTECTION (OTP)

BACKGROUND:

While many systems have been developed for sidewall ballistic protection, there are very limited methods for protecting personnel and equipment from direct overhead threats. This is especially true in expeditionary basecamps where time and manpower are limited.



OTP Concept Design

OBJECTIVE:

The objective of the OTP program is to provide quick, easily deployable, overhead ballistic protection. The OTP system is an expeditionary frame system which will be rapidly deployed by a small team of soldiers (no Material Handling Equipment) and is designed to protect against the most relevant basecamp threats. The OTP system will provide protection on day one of a deployment.

The OTP system is design to have a predetonation layer to activate the round and will have a secondary layer to catch fragments. The OTP must also be able to withstand the blast overpressure loading associated with target threats.

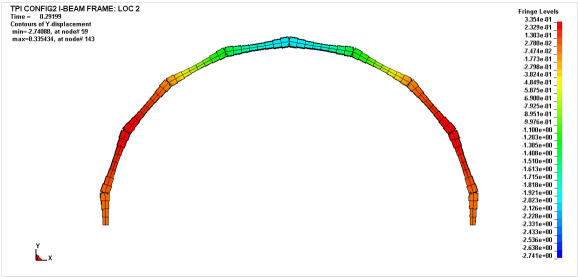
Prototype System

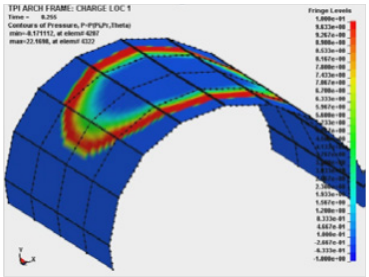
TECHNOLOGY TRANSITION:

- Overhead Threat Protection is part of the Force Provider Expeditionary – Capability Production Document managed by PM Force Sustainment Systems

MODELING EFFORTS:

- Use of FEA modeling and novel structural design to mitigate loading





POINT OF CONTACT:

Expeditionary Basing & Collective Protection Directorate
COMM: (508) 233-4347, DSN: 256-4347
E-MAIL: usarmy.natick.nsrdec.mbx.nati-amsrd-nsc-ss@mail.mil