

REF ESKIMO Planning Guideline

1. Purpose: To serve as a planning preparation document for REF forward teams assisting in tent foaming operations (PROJECT ESKIMO). The document focuses on the requirements at the FOB or COB level and does not capture the overarching strategic and operational tasks of inter-theater movement and coordination.
2. Background: Project ESKIMO is a power savings initiative designed to reduce fuel consumption and increase soldier comfort in theater. The application of foam to existing tent structures adds insulation to the tents which results in less fuel consumption to run air conditioning and heating units. Reducing fuel demand serves as a combat multiplier by reducing the number of trucks and convoys required to deliver fuel into theater.
3. Concept of Operation: The tent foaming is a 4 phase operation; Project Coordination, Reception, Tent Foaming and Redeployment.
 - a. Phase I: Project Coordination: Begins prior to arrival of foam team on the FOB/COB/Installation, includes briefing post leadership and mayor cell, selecting specific tents/structures, and identifying logistical assets on post. Phase ends upon establishing a prioritized list of foam sites, identifying any special material handling or lift requirements (i.e. cranes, man-lifter, etc) and calculating the foam material required to execute the mission
 - b. Phase II: Reception: Phase begins with foaming equipment and materials arriving on the installation. Phase includes receiving foam team members and establishing a logistical support for the team. Phase ends with team members and equipment staged and all materials on hand to conduct operations.
 - c. Phase III: Tent Foaming: Phase begins with projects identified and all logistical assets on hand to conduct the operation. The phase is a 5 stage operation per foam site. The stages include:
 - i. Initial Site Coordination:
 - ii. Job site preparation
 - iii. Tent/structure foaming
 - iv. Tent/structure acrylic application
 - v. Site clean-up and transport.The stages of this phase will be repeated for each tent/structure to be foamed. The phase ends upon all foaming of all previously identified structures.
 - d. Phase IV: Redeployment: Phase begins upon completion of all identified structures on the COB/FOB/Installation. Phase includes equipment clean-up, and configuring equipment for shipment. Phase ends upon redeployment of personnel and equipment either to home station or to the next installation to be sprayed.
4. Tasks by phase:
 - a. Phase I: Project Coordination:
 - i. Brief post command on foam operations.
 - ii. Identify and prioritize structures requiring foam treatment.

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1. Calculate material requirements.
 2. Determine special equipment requirements (crane, man-lift, scaffolding, etc).
 - iii. Meet with and record contact information for the mayor cell, site support contractors, and other key logistical support cells.
 - iv. Establish contract actions for TMPs and equipment haul vehicles
 - v. Draft OPOD/FRAGO for foam mission
- b. Phase II: Reception:
- i. Establish supply point for foam material
 1. If over 100 deg F, tan foam barrels require cooling.
 2. Coordinate for on call fork lift support at supply point.
 - ii. Receive and house foam team
 1. Ensure foam team members have post/facility authorization/license to operate TMPs/haul equipment/ and additional equipment as necessary.
 2. Provide TMP/POVs to foam team members for team transport.
 3. Provide Equipment and material haul equipment for member teams.
 4. Provide foam team members with communications equipment (i.e. radios/cell phones, etc).
- c. Phase III: Tent Foaming:
- i. Stage 1: Initial Site Coordination:
 1. Fill out site preparation checklist (annex A)
 2. Meet with facility manager
 - a. Describe foaming operation.
 - b. Coordinate for facility closing (if reqd).
 - c. Coordinate for road closure (if reqd).
 - d. Record contact information.
 3. Coordinate the following:
 - a. Obstacle/barrier removal (if reqd).
 - b. Foam trailer and material work area cleared of traffic.
 - c. Light sets.
 - d. Air conditioning systems to be covered.
 - e. Fork lift assets to stage palletized foam barrels.
 4. Identify local fuel and ice points.
 5. Identify nearest aid station and medical emergency contact numbers.
 6. Identify location of 24 hour DFAC for reverse cycle meals.
 - ii. Job site preparation
 1. Stage foam trailer.
 2. Pre-position foam material.
 3. Ensure special equipment is on hand:
 - a. Ladders
 - b. Scaffolding

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- c. Man-lift (if reqd)
 - d. Light sets
 - e. Air compressor
 4. Prep tent/facility:
 - a. Clean exterior (i.e. blow dust/debris off tent)
 - b. Ensure completion of coordination tasks listed in Stage 1 above.
 5. Ensure equipment is topped off and extra fuel tanks on hand.
 6. Provide ice for foam crew night ops.
 - iii. Tent/structure foaming: (If tactical situation allows this stage is preferably done at night—most structures can be coated in one night).
 1. Work crew will foam tent/facility.
 2. Conduct re-supply as required.
 - iv. Tent/structure acrylic application (Typically requires two coats of acrylic—must be done 8 hours apart. Also if tactical situation allows this stage is done at night).
 1. Work crew will apply acrylic coating over tents/structure
 2. Conduct re-supply as required.
 - v. Site clean-up and transport:
 1. Coordinate for removal of empty 55 gal drums.
 2. Schedule fork-lift to reload equipment and unused material.
 3. Transport equipment and material to next job site.
- d. Phase IV: Redeployment:
 - i. Schedule transport of spray equipment milvan.
 1. Ensure appropriate customs documentation is completed.
 2. Transport spray equipment milvan to APOD.
 - ii. Supervise the following:
 1. Turn-in of rented equipment and TMPs.
 2. Turn-over of living quarters.
 3. Inventory all communications equipment.
 - iii. Schedule transportation for spray team IAW SOP.
5. Logistical requirements:
 - a. Equipment Requirements:
 - i. Dedicated Team Equipment Requirement:
 1. Team transport vehicle(s): POV/TMP used to transport work team from site to site.
 2. Advance team foreman vehicle: POV/TMP 2 ton truck used to work site coordination and preparation and haul misc construction equipment.
 3. 185 cfm portable compressor: To blow dust and debris from tents.
 4. (1 EA) 40FT Flatbed trailer: Serves as a platform for the tent foaming equipment.

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5. (1EA) 20FT trailer: Serves as a platform to transport foam barrels (each barrel weighs from 500-750lb).
 6. (1EA) Prime Mover: To haul equipment and foam supply trailers from job site to job site.
 7. Cell phones/radios (min 5 EA) for team communication
- ii. On-call Equipment Support Requirements:
 1. Fork Lift: to download barrels.
 2. Crane: to move barriers and clear site location.
 3. Light Sets: Min 2 per site – maybe more depending upon job size to support night foaming operations.
 4. Man-Lift: Required for tall structures that can't be reached by ladders or scaffolding.
- b. Supply
 - i. JP8/Diesel: for Foam spray equipment (approx 15gal/day).
 - ii. MOGAS: for acrylic spray equipment (approx 15 gal/day).
 - iii. Ice: for cooling foam barrels and for work crew consumption.
 - iv. Carburetor cleaner: spray type: (approx 1 case/wk).
 - v. Hand cleaner.
 - vi. White Lithium grease.
 - vii. Tarps/drop cloths: to cover AC units.
 - viii. Zip ties: for site prep.
 - ix. Spray adhesive: for site prep.
 - x. Duct Tape: for site prep.
 - c. Personnel Services:
 - i. Housing for spray team (job crew dependant).
 - ii. Access to DFAC.