



# ARMY CENTER OF EXCELLENCE, SUBSISTENCE



## Facilities & Equipment Division Field Feeding Equipment Update

22 June 2005

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# MISSION



Dining  
Facility  
Designs

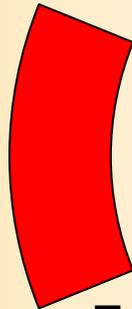
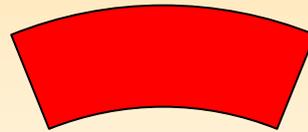
Equip.  
Schedules



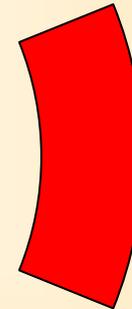
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501-  
800

801-1300

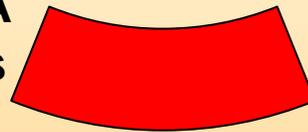
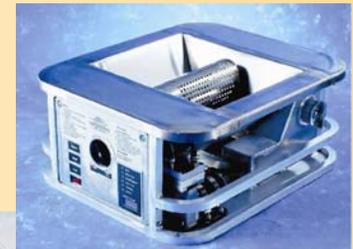


**Facilities  
&  
Equipment  
Division**



Equip.  
Funding  
For MCA  
Projects

Field Food  
Service  
Equip.

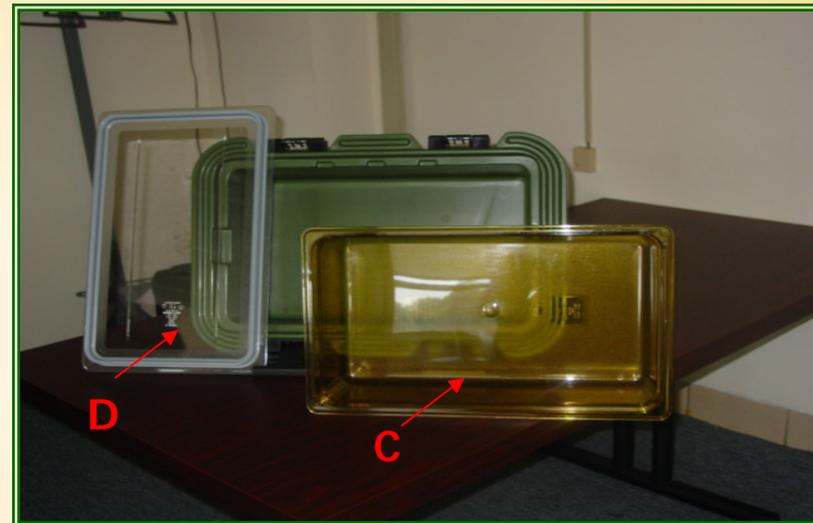


CTA 50-909





# Insulated Food Container



## NSN's

7360-01-517-4826 Olive Drab, 12 1/4 deep (3) Plastic pans with covers  
7360-01-517-4839 Desert Sand, 12 1/4 deep (3) Plastic Pans with covers

A: 7360-01-234-2189 1/3 Size Plastic Insert Pan  
B: 7360-01-517-4865 1/3 Size Plastic Insert Pan Cover  
C: 7360-01-517-4861 Full Size Plastic Insert Pan  
D: 7360-01-517-4867 Full Size Plastic Insert Pan Cover



# Modern Burner Unit (MBU)



## MISSION:

Primary heat source for Cooking Operations in All Army Field Feeding Equipment.

The MBU replaces the M2 gasoline burner  
The M2 was first fielded in 1959  
The MBU was first fielded in 1999 and is used  
in all field feeding kitchens



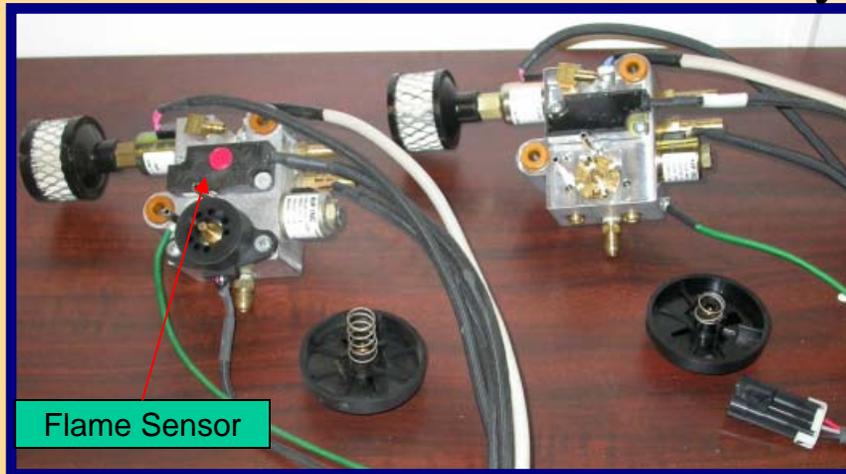
**FIELDING**: Complete!



# Modern Burner Unit (MBU)

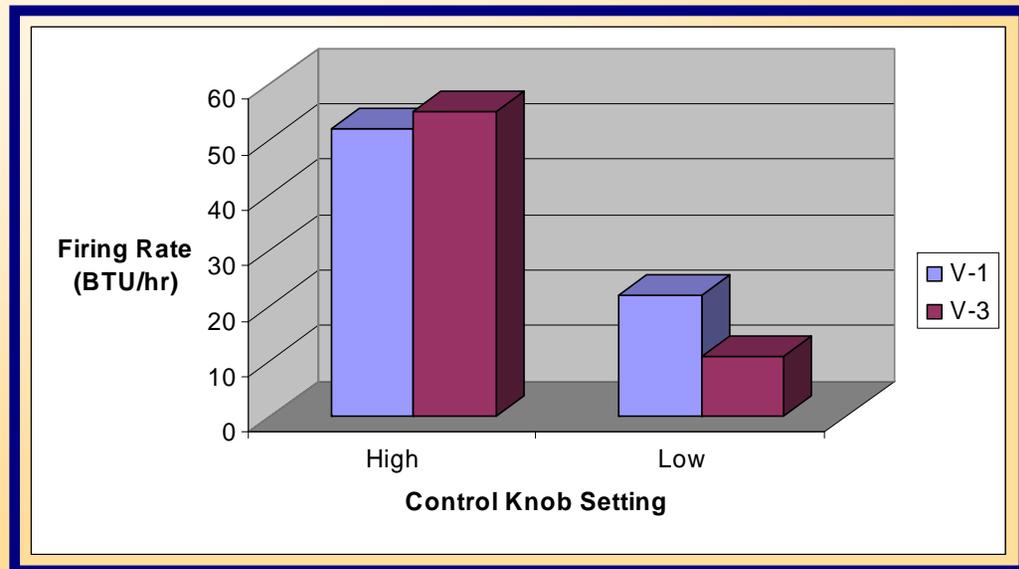


## Fuel delivery block upgrade



- Primary purpose: Increase the range of heat output. Lower low and higher high.
- Secondary purpose: Reduce noise made by the MBU on low.

- Contractor applied MWO started June 2004 at Ft. Lee
- Effort will take 3 to 4 years.
- New Fuel Delivery Block comes with new flame sensor.





# Modern Burner Unit (MBU)



Fuel delivery block upgrade



Control panel and data plate decals will be changed to reflect updated MBU



Current NSN



# Modern Burner Unit (MBU)



## Flame Sensor Upgrade



Original flame sensors begin failing at 190°F

New flames sensors operate at 325+°F

**If MBU can only be kept running by holding the start button in, the flame sensor has failed**



**If the burner shuts down 4 seconds after pressing the start button, the flame sensor has failed**

New flame sensors have serial numbers beginning with 89568-0001

NSN 7310-01-462-4918



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# Modern Burner Unit (MBU)



New Model Power Converter (on right)



- 1/2 inch shorter
- 5 lbs lighter
- More robust and reliable

7310-01-502-9455

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# Modern Burner Unit (MBU)



Thermostatic Control (prototype)



- Automatically cycles burner on and off to maintain set temperature.
- Target applications: Sanitation sinks and CK oven.

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# Modern Burner Unit (MBU)



## Fuel Seal Maintenance



- Check for missing or cracked fuel seal
- A good fuel seal is necessary for automatic refueling
- A cracked or missing fuel seal will leak fuel

Replace cracked or missing seal with:  
NSN 7310-01-462-4867





# Modern Burner Unit (MBU)



## Check Valve Repair (Burner will not refuel)



- Sticking check valve will not let MBU refuel.
- If you continuously have ER04's (time-out error): Test and repair check valve.

- Remove top pan bolts and place top pan to side. (above)
- Remove air line to check valve (right)
- Remove check valve (right)





# Modern Burner Unit (MBU)



## Check Valve Repair (Burner will not refuel)



- Remove check valve insert it in the air line (above left)
- Press fuel button on control panel.
- While MBU is trying to refuel, place finger over end of check valve.
  - If you feel suction, the check valve is not stuck.
- If it is stuck, free check valve with small screwdriver or other tool.
- Reassemble MBU.



# Mobile Kitchen Trailer (MKT)



- ❖ National reset program to fix kitchens returning from AOR.
- ❖ Letterkenny Army Depot has the contract. **FULLY funded**
- ❖ Axicor, Inc Reset Program 910-863-4655. **UNIT funded**

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# Food Sanitation Centers (FSC)



- Contract was awarded, funding is strong.
  - Fielding to be complete in 2009.
- No fielding matrix available at this time.
  - Parts are available for procurement.

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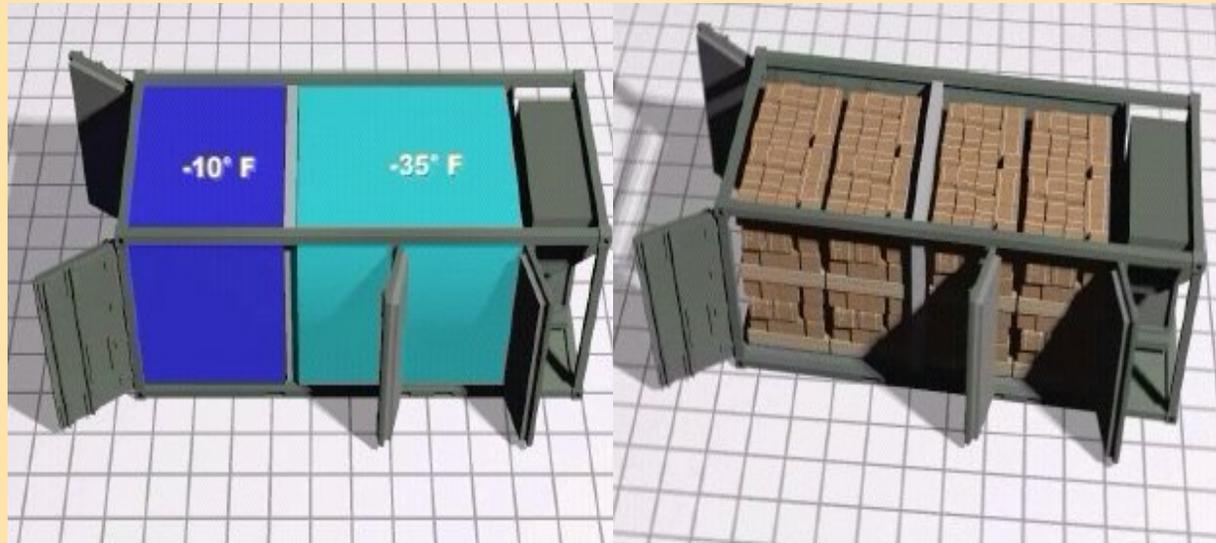
# Containerized Kitchen (CK)



- Fielding is currently focused on modular force requirements.
- 804 total systems to field. 208 field at end of April 2005.
- New production contract awarded to same manufacturer for 5 additional years.



# Multi Temperature Refrigerator Containerized System (MTRCS)



- Prototype is being built
- Contractor testing in July 2005
- Design Testing at APG, August – November 2005
- User Demonstration at Log Warrior Exercise in November 2005
- Logistics Demonstration at APG in January 2006.
- BOIP currently in staffing
- First Unit Equipped in 4<sup>th</sup> Quarter, FY07



# Assault Kitchen (AK)



## MISSION

**Provide a Hot Cook-prepared Meal to Soldiers in Forward Areas and Remote Sites Without Impacting Ongoing Operations.**

The AK will:

- Transported and operated on a HMMWV and High Mobility Trailer
- Support company level feeding in light through heavy forces
- Heat on the move capability
- Tray ration/multi-ration heater as its primary component
- Operated by two cooks.
- Set up and feeding in 15 minutes or less
- Feed 250 hot meals in 90 minutes or less



- ORD approved 29 Mar 04
- Funding is being established and will be joint procurement with USMC
- SBCT's will be fielded first

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# Facilities & Equip. Division Contacts



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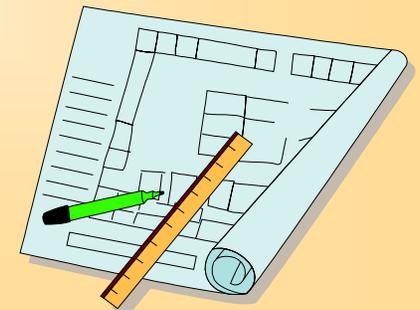
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[www.quartermaster.army.mil/aces](http://www.quartermaster.army.mil/aces)



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# QUESTIONS & ANSWERS

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