



UNITED STATES MARINE CORPS

MARINE CORPS ENGINEER SCHOOL
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IN REPLY REFER TO:

1500
CO
30 Oct 03

From: Action Officer, Family of Engineer Kits
To: MAGTF Integration officer

Subj: FINDINGS FOR THE FAMILY OF ENGINEER KIT FOR THE MONTH OF
NOVEMBER 2003.

1. The following information has been collected from the instructors and students from Combat Engineer Instruction Company. That is to include the Instructors, 2nd CEB, 8th ESB, and MWSS 272 for the month of November. This is the brake down of the Family of Engineer Kit.

a. Carpenter's Platoon Power Tool Kit

1. Better quality safety glasses, not the old plastic strap on safety goggles. The plastic goggles fog up, scratch and effect vision. Marines will generally not use these even when available.

2. One extra 18v battery per tool to have a back up battery to keep one on the charger and on in use to maintain production.

3. One 50' and one 25' extension cord for voltage purposes and on jobs when the 100' cord is not necessary. The extra length not in use could increase the tripping hazard.

4. The generator can only handle one power tool at a time. Looking for a size that will fit are needs right now. Appropriate size is still being evaluated.

5. Adapter to charge batteries off of a vehicle for times when the generator is down or being serviced.

b. Table Saw Router Tool Kit

1. Better quality safety glasses (same as above).

2. The 4-in-1 screwdrivers should be four drivers. The small attachments with this driver are very easily lost.

3. One 50' and one 25' extension cord (same as above).

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c. Pneumatic Nailer Compressor Kit

1. Adapters need to be 1/2" not 3/8". The air hose and the gun's are 1/2" in size.
2. Need more air hose to be able to reach out to farther distances.
3. Need a larger air compressor size and make being looked in to right now.

d. Pioneer General Labor Tool Kit

1. Need more tape measures 4-30' and 4-25' also better quality. Many Marine employ tape measures simultaneously on job sites. These are insufficient for most jobs. The Marine Corps would save money investing in higher quality tape measures. The ones in the kit will break easily and require regular replacement.

2. Need more curved clawed hammers 4- 16oz and 4- 24oz. These are one of the most used tools in the kit.

3. Plastic or fiberglass handles on every handled item. The fiberglass being a much stronger handle will need less replacement and be more reliable.
4. Better quality safety glasses (same as above).
5. Shovels with the teeth are not needed and will end up bent up and will break off.

e. Caperer's Squad Hand Tool Kit

1. Need more curved carpenter's hammers and framing hammers (same as above).

2. Need more tape measures four of 30', 25', and two of 50', 100' they also need to be better quality.

3. Two more line levels. Items often used simultaneously requiring employment of 2 or 3 at a time.

3. Better quality safety glasses (same as above).
4. The tool belts do not need the Velcro strap on them they will rear out very quick, it need to be a buckle.
5. This kit needs two combination squares add to it a lot more uses then a speed square and or a carpenter's square.

f. Multi-Saw Drill Tool Kit

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1. Need 2 -50' and 1- 25' extension cords (same as above).
2. Adapter for vehicles to charge batteries (same as above).
3. Extra battery for every 18v tool in kit (same as above).
4. Add one more drill to kit, this could be cordless or electric to improve production.
5. **Better quality safety glasses (same as above).**

g. Mason's and Concrete Finisher's Tool Kit

1. Two more line levels (same as above).
2. Big scrub brush to clean tools with.
3. **Knee pads need to be better quality something other than Velcro. The current knee pads will not hold up to the rigors of a normal project.**
4. **Need to have a concrete mix so many projects we do are smaller in nature and do not need to have contracted concrete come in. This would also give use more flexibility on many projects.**
5. Concrete boots need to be added. Marines issue boots will get ruined on projects if not provided proper equipment.
6. **Better quality safety glasses (same as above)**
7. **Larger boxes need to have more handle on them and better Hasp put on the boxes we have we all ready have two hasp that are broken and the larger boxes are very hard to pick up with the number of handles. The hasp and the handles also need to be replaceable.**

h. Pioneer Light Duty Tool Kit

1. **Better quality safety glasses (same as above).**
2. Tape measures two-25', two-30', two-50', one-100'. For occasions when working with the pioneer kit and have no other kit at your disposal and you need measurements and to mark distances.
3. **Need two have at least two chain saws added to this kit you have a filing set chain w/ file, round, handle, holder, but no chain saws.**

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2. For the month of November the Marine Corps Engineer Center of Excellence are going to be taking the Family of Engineer Kit on a road show to 8th ESB, MWSS 272, 2nd CEB, MWSS 274 and 271. We will also be looking for more evaluation from the Instructors from Combat Engineer Instruction Company.

4. For more information on the Family of Engineer Kit and a Point of Contact is GySgt Gibson Comm. 910-450-7236 or DSN 450-7236.

K. R. GIBSON