TO:
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FROM:
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AUTHORITY
AGO ltr 29 Apr 1980
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EGACBC-3

SUBJECT: Section III, Lessons Learned (RCS AVG OT) 36

TO: Assistant Chief of Staff for Force Development
Department of the Army
Washington, D.C. 20310

JAN 9 1968

14 March 1966

The following lessons learned are submitted IAW DA message 748502 DIG 252232Z January 1966:

1. **Item**: Care of TOE Tentage

   **Discussion**: The heavy winds, severe rains and blaring sun cause rapid deterioration of TOE tentage. Tents erected utilizing only the provided poles deteriorate at a much more rapid rate than those framed. Unframed tents have needed replacement in as little as six months time.

   **Observation**: Steps should be taken to frame tentage using available materials to prolong their usage.

2. **Item**: Pouring Concrete With 16S Mixers

   **Discussion**: A mobil batch plant can be constructed by mounting two 16S concrete mixers on a 10 ton lowbed trailer and fabricating a chute device to pour directly into the forms. The mounting of a Navy cube on the trailer for use as a water supply increases the efficiency of this apparatus as well as lessening the water distribution requirements. The apparatus can be pulled with a tractor on well compacted surfaces or a crawler-tractor on low bearing pressure surfaces.

   **Observation**: Utilizing this mobil batch method of pouring concrete it is possible to reduce considerably the number of personnel required to utilize two separate mixers. The end result is an increased efficiency and a greater number of cubic yards of concrete poured per working man.

3. **Item**: Battery Life

   **Discussion**: Extreme heat combined with the other elements reduces the effective life of vehicle batteries.

   **Observation**: Increased battery life can be obtained by checking the water level at frequent intervals. The reading on electrolyte should be lowered (1225-1250).
4. **Item: AC Tractor Operation**

**Discussion:** Rocks and other objects fall from cuts and damage the cylinder and hydraulic hoses on the left side. This happens because the operator, sitting on the left side of the dozer, tends to use the left side of the dozer more.

**Observation:** This situation can be overcome by moving the tilt cylinder from the left to the right of the blade.

**Discussion:** Approximately 1,000 hours of operation is the expected limit of use of tracks, idlers, sprockets, and rollers at Cam Ranh.

**Observation:** At least one full set of AC tracks, idlers, sprockets, and rollers should be kept in the company PLL.

**Discussion:** AC tractors operating in reverse at high speeds cause excessive sand to be thrown up into the fan causing rapid and extensive damage to the radiator.

**Observation:** AC tractors should not operate in reverse at high speeds in sand.

5. **Item: Quarry Operations**

**Discussion:** During the rainy season decomposed granite tends to ball up and clog chutes as well as adhere to the finished product producing a poor quality material.

**Observation:** Crushed rock can be produced at a reduced rate in rainy weather by adding water to the feed material. This will make the otherwise sticky decomposed granite soupy and allow it to separate more readily from the rock. A cat walk should be rigged around the discharge chute below the vibrating grizzly on the 75 TPH primary unit and push poles employed to keep material from clogging chutes. Product pile will contain quantities of decomposed granite, but it is acceptable as a road base coarse material. If allowed to dry, this product can be recycled through a tandem crusher to provide an acceptable concrete aggregate.

**Discussion:** In rough quarry sites or those where deep sand is present the movement of wagon drills is difficult.

**Observation:** Increased mobility can be obtained by mounting the wagon drill on the back of a 5 ton M 52 tractor truck. This will also extend the reach of the drill for boring horizontal "snake" holes, but reduces depth when boring vertical holes. A primary advantage of this type mounting is that the drill can be operated and moved by a two man crew.
SUBJECT: Section III, Lessons Learned (con't) 14 March 1966

Discussion: During the use of 5 ton dump trucks to feed the Eagle 75 TPH primary crusher from the headwall, the 10 horse-power electric motor for the shaker box is exposed to damage from rock spilling over the side of the hopper.

Observation: An improvised steel shelter installed over this motor prevents damage.

FOR THE COMMANDER:

WALTER P ROBERTSON
1st Lt, CE
Adjutant
1. In accordance with message 748502 Department of the Army, dated 252232 2 January 1966; subject: Lessons learned (JOMI), the subject report is forwarded for the 36th Engineer Battalion (Construction).

2. Reference Paragraph 1. Since the end of the reporting period, units have been authorized to frame tentage as materials become available.

3. Concur in all other Observations.

FOR THE COMMANDER:

[Signature]

J. M. HERBIE
Capt, CE
Asst Adjutant
AVIR-3 (13 Mar 66) 2nd Ind Capt Flora/trs/A-610
SUBJECT: Command Report for Quarterly Period Ending 31 December 1965

HEADQUARTERS, 18th Engineer Brigade, APO US Forces 96507 30 April 1966

TO: Commanding General, United States Army Vietnam, ATTN: AVC, APO US Forces 96507

1. Forwarded herewith is the original and copy one (1) of the 864th Engineer Battalion (Const) Lessons Learned as required by para 5.a, letter, your headquarters, subject: Lessons Learned (RCS AVG (OT) 36), dated 1 March 1966.

2. Concur in principle.

FOR THE COMMANDER:

[Signature]
ROBERT A. CONNOLLY
Major, CE
Adjutant
AVC (14 Mar 66) 3d Ind

SUBJECT: Lessons Learned

HEADQUARTERS, UNITED STATES ARMY, VIETNAM, APO US Forces 96307 7 MAY 1966

THRU: Commander in Chief, United States Army, Pacific, ATTN: GPOP-MH, APO US Forces 96307

TO: Assistant Chief of Staff for Force Development, Department of the Army, Washington, D.C. 20310


2. Based on the requirements for lessons learned in message, paragraph 1 above, this headquarters requested a one-time report of lessons learned, as Section III to the Quarterly Command Reports for the period ending 31 December 1965, from those units submitting that report. All preparing units have been directed to include the lessons learned in the Operational Report on Lessons Learned commencing with the report for the period ending 30 April 1966.

3. The inclosed report on lessons learned is forwarded for your information.

FOR THE COMMANDER:

R. J. THORNTON III
1st Lt, AGC
Asst Adjutant General