

MEMORANDUM

Date: 3 April 1987  
Serial: 219

To: Commander, Activities Europe  
Via: Chief, Engineering Division *uu 4/6*  
Chief, Comptroller Division  
Chief, LORAN Division  
Deputy Commander, Activities Europe

From: LCDR Turner

Subj: TRIP REPORT FOR LORSTA KARGABURUN, 30 MAR - 1 APR

1. I met at Kargaburun with Mr. Dinesh Patel (Army's project manager) and two representatives of Telexcopic Engineering (the A/E firm chosen by the Army) concerning the barracks rehab. We thoroughly reviewed the scope of services and I am satisfied that they all understand what we want. They spent the remainder of Tuesday and Wednesday documenting the existing condition of the barracks and COQ as well as asking many questions on functions of rooms and related subjects.

2. The following is the design schedule agreed between Mr. Patel and the A/E:

7 Apr	A/E proposal to Army
15 Apr	Contract signing and NTP
30 Apr	Concept presentation to ACTEUR
22 May	35% submission
18 Jun	95% submission
25 Jun	100% submission

I tried to shorten this, but Mr. Patel said that he could not get to NTP much before 15 Apr. He also conceded several U.S. and German holidays to the A/E as not counting towards the 60 day contract period. Mr. Patel's estimate of the contractors fee is \$25-28K (not counting \$5K admin fee) based on 1.7 DM = \$1. He says he has to award the contract in DM.

*I am the  
considering  
Army as the  
agency respons  
for not being higher  
for construction of  
A/E contract  
was \$25K  
But we will  
go to 6.000  
to 125.000  
including just  
cost.*

3. The A/E representatives asked for the original specifications for the station, information on the fire alarm system and a sample CG drawing title block. I said we would send these items but we wanted everything except the title block back.

4. In response to questions I gave the following guidance to the A/E representatives:

a. We do not want to pay for a complete energy audit and budget for the buildings (standard on Army contracts). Energy costs should be included in comparison of life cycle costs for various architectural alterations considered during the design.

b. In several areas ductwork is lower than the top of the windows making installation of suspended ceilings difficult. Do not spend relatively large sums rearranging ductwork merely to accommodate a suspended ceiling. In these cases, look at other types of ceilings.

c. It is not necessary nor desirable to rebuild vestibules.

5. CWO Holland, MKC Byrd, EMI Farmer and I spent several hours discussing their power problems. They have at least three problems:

a. The cables to the exciter control panel, from both the generator and the exciter, are old and brittle. There is a hinged terminal board which must be opened to meggar these cables as part of the PM work. The frequent flexing of these old cables as the hinged board is opened and closed, along with engine vibration have broken these cables repeatedly (0 times on #1, 3 times on #2, and 2 times on #3). The station wants to open the terminal board and construct a steel frame and plexiglass box around it. This would eliminate the cable fatigue caused by opening and closing the hinged board every 250 hours. I told them to do it to one genset to see if it will stop the problem. This is only a temporary solution. The cables must be replaced entirely on the next generator overhaul cycle. In fact, if the problem continues, it may be necessary to overhaul the generators early to avoid frequent periods of unusable time.

b. The air circuit breakers have been malfunctioning. During the recent off-air periods the station replaced one breaker (#1) with their spare. They repaired the other two (mechanical components on #2 and contacts on #3). Later, on 29 March, number 3 breaker malfunctioned again. They opened the cover, found nothing obviously wrong, then closed the cover. It then worked fine. The ACTEUR project will replace all 3 breakers with a newer model. The three new breakers are already on board. I feel the obvious solution is to replace all 3 breakers as soon as possible. Unfortunately Mr. Fair cannot devote the needed time to this project for several more months. Therefore we have two choices: decide if the station personnel have the necessary expertise to do the job and direct them to do it, or have another ACTEUR engineer write a performance specification and contract for the work. Mr. Fair disagrees with the first alternative. I feel it may be possible for the station to accomplish and intend to discuss the installation with the manufacturer before I make up my mind. If the station can do it, the installation can be done much sooner than if done by a contractor.

*we will  
p.s.e. this  
note*

c. The station experiences an intermittent power load of 210-230 KW (normal load is 160 KW). MKC Byrd said that it happens usually after rain or snow falls. Sometimes it lasts several hours then goes away. The logical deduction is that ground water causes an intermittent short circuit. This may or may not be true. The only way to find out is to do some tests while the anomaly is happening. I recommended to the STO, MKC and EMI that the next time it happens they should methodically secure circuit breakers one at a time to pinpoint the fault. Because of redundant equipment (except

timer room circuit) this can be done while on-air. They had made some attempts at this, but not thoroughly and methodically, so they have not found the problem yet. We should also send them a recording ammeter to assist them in their search.

*G. R. Turner*  
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