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PRELIMINARY
RBH → AHS
DLM

Interoffice Communication

To : J. A. Dixon
From : R. B. Harned
Date : March 22, 1982
Subject: FIXED POINT MONITOR COMPUTER
(AFE 9680)

In order to complete this project, some details need to be resolved. DLM, AHS, and I discussed several questions and came up with the following:

COMPUTER SOFTWARE/HARDWARE CHANGES

1. Install 32 KB ~~MOS~~ Memory - (To be done by P-E serviceman about 4/1). This should improve system reliability.
2. The turn on threshold for the beacons needs to be resolved (1 ppm as per the design is not acceptable).
3. Program for and install a leak alarm.
4. Change leak numbering system such that leaks are numbered sequentially for the month. (if possible)
5. Modify the software to continue data logging if the printer goes down. (if possible)
6. Program and install a computer failure alarm. (if possible)
7. Try to make the system more resistant to operator shutdown. Some possibilities are:
 - a) Disable the keyboard with a locking switch.
 - b) Put the CRT terminal behind the panel and put a video display beside the printer.
8. Purchase diagnostic programs and scratch floppies.
9. Purchase parallel/serial and parallel/serial converters to improve communications from the computer to the printer.

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SUGGESTED PROCEEDURAL CHANGES

1. Manual logging of G.C. data only when the computer is down.
2. Train instrument people to restart ^{THE} computer.
3. Operations responsible for writing a work order when the computer goes down.
4. Use multi-copy leak repair forms (to be designed by AHS and DLM).
5. Vinyl Operations Supervisor ^{RESPONSIBLE} for distributing reports. Distribution to include JF, CRM, PEM, AHS, DLM.

At this point, the main question to be resolved is the beacon turn on threshold. This needs to be resolved so that programming revisions can commence. Also, we will incur additional charges from CSD for the additional programming against the AFE. The project has almost \$30M remaining, so this should not be a problem. Also, the procedural changes need to be ~~revised~~ and modified, if necessary. ^{REVIEWED}

R. B. Harned

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c: JF, CRM, PEM, VFM, DLM, SJV, AHS,
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