

## DZero Monitor/Download System Procedures

### **1. Purpose:**

The purpose of this procedure is to inform an operator/ experimenter how to start a Monitor/Download System. There is no explanation of trouble shooting download problems or equipment readback or control problems.

### **2. Prerequisites:**

The Monitor/Download System consists of three (3) major components. (1)The VME crate containing all the cards to do processing, Token Ring networking, vertical interconnect downloading, and I/O interfacing. (2)The rack monitors which interface to monitoring equipment like power supplies, temperature sensors, water flow, etc. (3)The console which displays locally parameters of devices throughout the system using different applications.

### **3. Procedure:**

The procedures for turning on these three (3) components are as follows.

(1) The VME crate only need be powered up. It automatically inserts on the Token Ring Network and begins data acquisition. One precaution is to make sure the top options switch on the Crate Utility card is to the left position. Having it in the right position will cause the system to come up in monitor program for local debugging. When the system is running, the lites on the Crate Utility card should be flashing. Also when the system is inserted on the Token Ring network (which takes about 1 min. after power up) the FRAQ and INSRT lites on the Token Ring card should be on.

(2)The rack monitor is similar in that it only need be powered up. All the voltage indicating lites should be on. If the VME crate that controls the rack monitor is on, then data acquisition should start. If no controller activity is there then the rack monitor will reset approximately every ten seconds.

(3)The console is also similar in that it only need be powered up. The console is used to interface the keyboard and knob to the system. The activity lite on the front panel should be flashing if the VME crate is talking to the console. The VME crate generates the video for the console. So no video will be seen unless the VME crate is powered up. If, when the VME crate is powered a message

```
TOO MANY ABORTS.  
SBUG 02/22/80  
CMDS: B,D,G,L,M,P,R,W  
*
```

appears, this indicates that there is a problem with the VME crate and an expert should be called.

### **4. References:**

(1)The VME crate applications are documented and located in a notebook in the control room.

(2)The rack monitor is D0 note 1051.

(3)The use of the console is refered to in the applications documents on the VME crate.