Procedure for Restoring the DMC if the User Monitor is Lost!!!

This document list instruction for restoring the DMC rack if the **USER MONITOR** does not load and the controller status comes back as **UNLOADED**.

The HUMB will boot from any quad that is strapped to Segment 2, Offset 0000, and Enabled. The jumpers to achieve this are as follows (assuming quad D): JD=EN, J11D=EN, All other jumpers =DIS. There are five more jumpers on the HUMB board that need to be set. J1 needs to be set to "IN". JSA, JSB, JSC, and JSD need to be set to 4.

Procedure for restoring system

Using the Chip Writer locate the Firmware at N:\Firmware\DS38\DMC_RACK\HUMB(DMCC). Burn a new set of firmware using Intel HEX translation. **(MUST USE HEX TRANSLATION!)**

Install the new firmware in the HUMB card and be sure the quad is enabled.

Check the jumpers on the HMPK. They should be as follows: BJ1=NOT 1, BJ2=2, BJ3=4, BJ4=NOT 8, BJ5=NOT 10, BJ6=GND.

!!!NOTE: IF THE HMPK IS NOT CORRECTLY STRAPPED THE PROCESSOR WILL NOT LOAD THE APPLICATION PROGRAM FROM THE HUMB!!!

Install the HMPK and HUMB.

Restore power and the system should boot with the **USER MONITOR** intact and the controllers **ONLINE**.

After system initialization the HUMB should have a RED LED illuminated on the top of the card. The HMPK card should have the IMOK LED illuminated and its red TEST LED illuminated.

The monitor should read "SELFTEST DONE"

Short TP1 to TP2 to reset the system and verify that the system selftest displays the following:

DMC SELFTEST

PROM CSUM—OK

BASE RAM—OK

8087 CHECK –OK

SYSTEM RAM –OK

APP CSUM –OK

SELFTEST DONE

Press the enter key and verify the following:

DMC MONITOR

Rev. x.xx Date xx/xx/xxxx (x=don't care)

Sys ID = VERSION_0

Procedure for imaging EEPROM's already installed on HUMB from known good EEPROM's

Be sure the controller status is OFFLINE or UNLOADED. If the system asks for a password it is **PS2.**

Enter the monitor mode of the DMC and do a restore (X, R, Y). The restore writes the contents into RAM on the DMPK card.

Bring the controller back ONLINE (O, C, ON)

DO NOT POWER DOWN THE RACK!!!

With the system on remove the HUMB card from the rack.

Disable the set of Firmware that you just restored from and enable a different quad on the HUMB card that is loaded with EEPROMS. (Be sure the quad is Enabled)

Reinstall the HUMB card.

In the DMC monitor execute a Save (X, S, Y). Monitor should say "constants saved".

Now execute a .C table save (C).

Reset the system by shorting TP1 to TP2.