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Gravity Probe B Relativity Mission

MISSION OPERATIONS CENTER

MOC Rebuild MOC Server
from
MOC -Crunch

P0900 Rev A

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Prepared By: Checked By:

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REVISION RECORD

REVISION	ECO	PAGES	DATE
A	1375	**Added Equipment Required section.** **50% rewrite of procedure. Complete change of Responsibilities section.**	**8/12/02**

Equipment Required:

- ESD Ground Straps

Scope:

In the event of a Mission Operations Center (MOC) system failure during mission operations, it is imperative that the System Administrator/Designee be contacted immediately.

The purpose of this document is to provide instructions for MOC personnel to follow in the event the MOC Server goes down and rebuild of a new MOC server is needed.

Applicability:

This procedure applies to all personnel involved MOC operations. The requirements outlined in this document are mandatory.

Quality Assurance

Quality Engineering is to be notified prior to performance of any hardware troubleshooting/replacement and will witness all actions. If Quality Engineering is not available they may delegate the Quality tasks to the MOC Mission Operations Manager. All actions taken will be documented in the MOC Test Anomaly Report.

Responsibilities:

System Administrator or Designee   Name _____   Date _____

- Moc-server rebuild (failed unit):   CHECK

    - In HEPL, shutdown moc-crunch (use key to physically   _____

turn off (turn counterclockwise 90°)

- If power is not already off moc-server, turn power off. _____

- Disconnect all cables from MOC server including the
  power cable. _____

- Open the server front panel and remove hard disks. _____

  1 - Remove moc-server from rack, put next to
      moc-crunch _____

  2 - Side by side, open front panel of both 250's
      with key. _____

  3.- Connect ESD ground strap to a suitable ground
      system. _____

NOTE
INDIVIDUAL PERFORMING REBUILD WILL
WEAR A ESD WRIST STRAP.

  4 - Remove <u>one </u>disk out of moc-crunch, label and
      set aside. _____

  5 - Do a slot to same slot transfer of disks from
      moc-server to moc-crunch. _____

  6 - Close and lock front panel door. _____

  7 - Put moc-crunch into rack. _____

  8 - Reconnect labeled cables. _____

  9 - Reconnect power Cables. _____

  10 - Power-up by turning switch to "vertical bar" _____

  11 - Reboot moc-sever clients. _____

  12 - Schedule repair of failed unit. _____

<u>Summary</u>:

Incorporation of the items in this procedure will ensure that all rebuild activities are kept

to a minimum and will prevent the unnecessary replacement of MOC hardware.

- Connect ESD ground strap to a suitable ground system.   _____

- Individual performing rebuild will wear an ESD wrist strap.   _____

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- Schedule to repair failed unit.   _____

- Moc-crunch rebuild (new Moc server):   CHECK

  - Power down Moc-crunch.

  - Connect ESD ground strap to a suitable ground system.   _____

  - Individual performing rebuild will wear an ESD wrist strap.   _____

  - Open front panel and remove internal hard disk. ESD wrap disks and store in appropriate area.   _____

  - Plug-in disks that were removed from failed server.   _____

  - Reinstall front panel.   _____

  - Reconnect cables.   _____

  - Restore Power.   _____

  - Reboot MOC-server clients.   _____

SUMMARY

12 Aug 2002

Incorporation of the items in this Procedure will ensure that all rebuild activities are kept to a minimum and will prevent the unnecessary replacement of MOC hardware .