- Modify EOB-2 back-plane to accept QM-ICU p.c.b's **1 day**

- Acceptance test of: **1 day**
  MSSL-EGSE_(S/C) / DEM-2(i.e. EOB-2 & QM-ICU)

- Upgrade & reconcile Sandia-EGSE to VXWorks 5.1.1(VXWorks 5.2 ?) **1.5 days**

- Acceptance test of: **0.5 day**
  Sandia-EGSE_(S/C) / DEM-2(i.e. EOB-2 & QM-ICU)

- Test Sandia-EGSE_(ssi-2) / EOB-1 **0.5 day**
  Test MSSL-EGSE_(ssi-2) / EOB-1

- Telescope-Simulator card test, verification and repair (as required) using: **1 day**
  MSSL-EGSE_(ssi-2) / Tele-Sim card / EOB-1
  Sandia-EGSE_(ssi-2) / Tele-Sim card / EOB-1

- Development of new Exposure scripts for new DEM-2 set up **5 days**
  to include:
  resolution of packet formats & de-packetising strategies.
  Adding of CRC calculations to Packets?
  synchronising of DPU-ICU timing ?

- Bring back EGSE_(ssi-1) card

PROPOSED PROGRAMME FOR THE INTEGRATION OF THE QM ICU WITH THE EOB-2 DPU AT SNL OCTOBER 1996

1. Aims of the Integration

1.1 To converge the development environment, thus providing 2 identical DPU development systems.

1.2 To integrate the QM ICU with the EOB-2 DPU, Backplane and PSU. This will test the ICU-DPU interface and demonstrate an exposure sequence with the ICU in the chain.

2. Hardware

2.1 To be transported to SNL by MSSL:-

Prototype electronic crate with 16 printed circuit boards (including QM ICU)
8 printed circuit boards and a power supply for VxWorks electronic crate
9 extender printed circuit cards
A small number of memory integrated circuits
2 Sun computer disk drives with software
Sparc CPU
CD ROM drive with CD
DAT tape and drive, with software
Oscilloscope and leads
Rahil's Personal Computer (CPU, keyboard & mouse only)
14 Operating manuals
Set of miscellaneous hand tools
Copy of the ICU portion of the mother board layout

2.2 To be supplied by SNL

2 channel digital storage scope (typically 400Msamples/sec)
Monitor for the EGSE crate(any dumb terminal - we use a Digital VT220)
3 bench PSU's
Sun monitor & keyboard
DEM extender cards
Monitor for Rahil's PC
VXWorks electronic crate

3. Activities

3.1 Arrival & Set up

Set up SUN host, EGSE crates, EOB-2, QM-ICU in 'H'-back-plane, & networking — **0.5 day**

3.2. QM-ICU - DPU Integration

- Carry out acceptance test of: MSSL-EGSE_(S/C) / QM-ICU using 'H'-back-plane / EOB-2 — **1 day**

- Add new ROM into EOB-2 — **1 day**
  Test MSSL-EGSE_(ssi-2) / EOB-2 working

XMM Optical Monitor

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INTEGRATION OF QM ICU WITH EOB-2 DPU, BACKPLANE & PSU

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