

The video conference meeting was attended by Coles Sibley and Ernest (sorry, didn't get your last name) at Oak Ridge, and John Smith, Brian Oerter, Johnny Tang, Loralie Smart, and Dan Weiss (off camera for the most part) at BNL.

The meeting began with a slide presentation on the Machine Protection System (MPS) by Coles. The functionality of the Beam Permit System (BPS) and Fast P(?) System (FPS), Dump modes, hardware design (LANL), subsystem inputs, and system timing were addressed.

The discussion included valve closure timing - what aperture is reached when the open limit switch breaks, how much time that takes, and how it impacts beam dumping. The Fast Valve controller should generate an input to the MPS.

MPS inputs included signals from valves, pumps, and vacuum pressures. Loralie recommended that only the valve closure be included in the MPS. The signal(s) to the MPS will be generated by the PLCs. Other EPICS diagnostics should be used to monitor and generate alarms for pumps and pressures. There will be further dialogue between Vacuum and Coles, including an ICD. The machine mode MPS loop definitions need to be distributed.

Johnny Tang presented his slides on RS-485 interface options. There are PLC, VME, and PMC/PCI interface options available. Brian voiced concerns over past grounding/shielding issues with the VME IP modules. Johnny recommended using the PMC interface with VME carrier (based in part on future viability). John Smith recommended ordering a module & testing it.

There was a discussion on the MPS module configuration, and some detailed discussion on system timing - how beam stored for minutes impacts timing.

#### Action Items:

- Distribute the MPS Machine Mode loop definitions (Coles).
- Define the PLC to MPS signals at each support building location for inclusion in the MPS ICD (Johnny/Loralie?).
- Circulate the MPS ICD for review & comment (Collaboration).
- Copies of slides will also be distributed, right?

Comments, additions and corrections to these minutes are welcome!