NuMI – AEM Dec.19 ’05

S. Childress

- No beam during the week. STARTING UP NOW
- Previous week-end (Dec.9-10) diagnostics for likely source of tritium seen in MINOS sump holding tank
  - « Find very significant levels in condensate from chiller in target chase forced air cooling system.
  - « Condensate flow 2.5 Gal/hr. But ~ matches levels seen in sump holding tank once scaled for very large flow volume differences
- Shut down to design and implement a system for collecting this condensate.
- System completed and then tested over the weekend.

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Chiller Condensate Collection System

- 300 gal. holding tank in target hall
  - « Storage for several days of operation
- Pumped on demand to barrel filling station located outside interlock area – near MI-65 elevator shaft.
  - « Barrel filling coordinated by ES&H personnel
- Instrumentation includes dual holding tank level floats, level indicator, ACNET readout and beam permit system monitoring

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Holding Tank for Chiller Condensate

Located in target hall.
(Picture during installation)

Gravity feed from chiller to tank. Pumped on demand to barrel receiving station.

Farmers may recognize suppliers for tank and secondary confinement

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NuMI Beam: Current Status

- Start-up of low intensity beam ~ 1500 for target scan
- Working in parallel to replace a pressure transducer for the horn PEI power supply. Horn power off for target scan.
- After successful completion of the scan, and readiness for the horn PS will resume normal NuMI beam operation.
  - « Anticipate this by ~ 1700-1800.

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Detector Status

- Ready for beam. Some routine maintenance during beam off time.
  - Far:
    - Investigations of low rate on one plane
  - Near:
    - Routine electronics maintenance
    - Problems with one Rack Protection System
    - Reading out false temperature status, replaced on Saturday