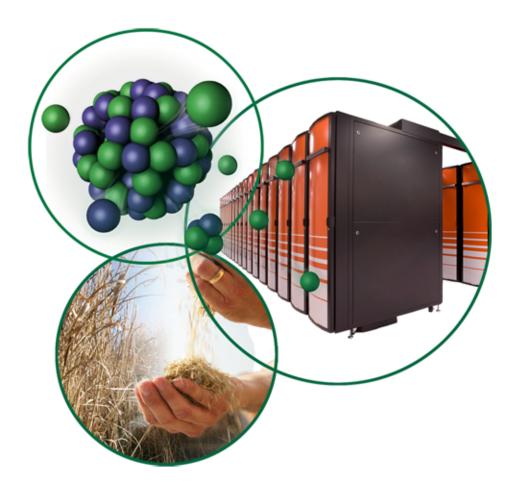
#### **Follow-on MERIT Testing at ORNL**



Van Graves



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### **New Capabilities at ORNL**

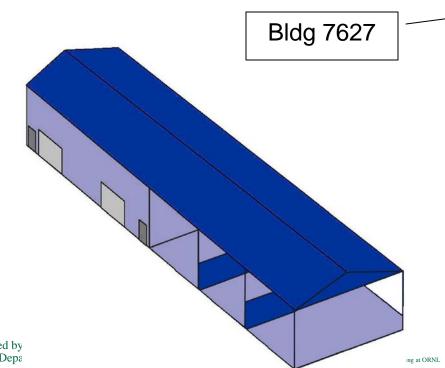
- Discussions with Tim Bigelow, ORNL Fusion Energy Division, indicate some existing experimental power supplies will be moved from Y-12 to ORNL
- Some of the power supplies will have capability to power MERIT solenoid
  - 650V peak
  - 15,000A pulsed > 5sec
  - Voltage and/or current can be controlled by SCR gate waveform control



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# 7627 Power Supply Building

- New building
- Final design complete
- Located behind 7625



Bldg 7625



Schedule completion: Sept 2008

Several power supplies will be installed



## Bldg 7625

- Pit capable of housing MERIT experimental equipment
- LN2 dewar in place
- 20T overhead crane

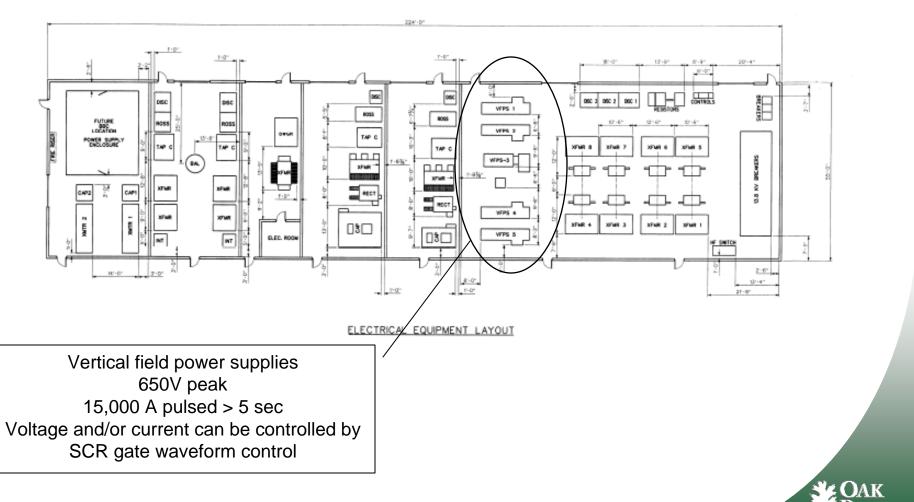






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### **Equipment Layout 7627**



#### Comments

- Major infrastructure should be available in late 2008, but connection costs may be incurred
- Hazard analysis (radiation, Hg, LBE) will have to be performed, but no major obstacles envisioned
- Other power supplies will be available (capabilities unknown at this time) that might be useful for other HEP experiments in the future

