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PHYSICS DEPARTMENT		Effective: 08/12/2004	Page 1 of 1
Subject: ATF Darlington Transistor Power Supply Preventive Maintenance Procedure		Prepared by: Vitaly Yakimenko	
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ATF Darlington Transistor Power Supply Preventive Maintenance Procedure

The Darlington power supply system consists of a control chassis, a 12 or 24 channel Darlington transistor chassis (bipolar capability) and two DC power supplies that provide the current needs of the transistors.

1. Maintenance to be performed by qualified technicians, only.
2. Control Chassis. Turn power supply to off position and unplug power cord (120V AC).
3. Darlington Transistor Chassis. Turn off DC power supplies and unplug them (single phase-208V AC). Keep plugs in view during service procedure. Turn off control chassis power.
4. Check water cooling lines for deterioration and leakage. Replace/tighten as necessary.
5. Check tightness of all screw terminals. Retighten as necessary.
6. Check for frayed wiring. Check fan(s) on DC power supplies for proper operation. Replace as necessary.
7. Replace any faulty indicator lamps.
8. After servicing, reconnect AC plugs/connectors and check system for proper operation.