

BROOKHAVEN NATIONAL LABORATORY PHYSICS DEPARTMENT		Number: PO-P-ATF-0009	Revision: 1.1
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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.