For electronics, the supplier shall establish and maintain an electrostatic discharge (ESD) control program IAW MIL-STD-1686 or ANSI/ESD-S20.20. The supplier shall establish and maintain an ESD Control Plan that describes planning and implementation of ESD Controls for electronics. As a minimum, the ESD control program shall address training, protected work area procedures and verification schedules, packaging, facility maintenance, storage, and shipping. Items furnished on this order are Electrostatic Discharge (ESD) sensitive and shall be handled during manufacture, assembly, and transportation per the requirements of ANSI/ESD S20.20 or MIL-STD-1686. The item(s) and its subassemblies and details shall be protected from ESD damage during the manufacture and delivery from sub tier suppliers and packaged in conductive or static-dissipative packages, tubes, carriers, conductive bags, etc., as appropriate for the item(s) being delivered along the entire supply chain to Northrop Grumman.

As a supplement to the MIL-STD-1686 and ANSI/ESD-S20.20 requirements, relative humidity (RH) shall be controlled from 30% to 70% and ionizers shall be used when the RH falls below 40%, with no device or circuit card handling allowed if the humidity falls below 25%. Alternative limits may be proposed to NGIS Parts, Materials, and Process Board for approval.

Unrestricted airflow between ionizer and the ESD sensitive (ESDS) item is required. For storage of ESDS devices the devices shall remain in ESD protective packaging and not handled outside of the ESD protective packaging, the relative humidity shall be monitored between 25% and 75%.

A check of the RH level in each ESDS area shall be performed at the start of the workday and the result shall be logged. Periodic observations of the RH level should be made to ensure continual compliance. The records of continual RH monitoring (chart recorders or data loggers) shall be retained as required by contract.

The supplier shall ensure that these requirements are flowed down through the supply chains for ESD sensitive items to be used on this order.