Narrative Statement of Test

Starks Aerospace request to test un-manned aircraft for the primary purpose of providing public safety and military applications.

The Datalink system facilitates the reliable transfer of all data to and from the Remotely Piloted Aircraft (RPA), and the Advanced Ground Control Station (AGCS), by means fo the ground-based Ground Data Terminal (GDT). And the Air Data Terminal (ADT). The commands transmitted from the ground-based units to the RPA, and data transmitted from the RPA to the ground based units, are transferred through the Datalink channels using a fixed-coded frame format. Ground to RPA communications are transferred via two Uplink (UPL) channels: a primary Uplink channel, UPL-1, and a secondary backup channel, UPL-2.

The Datalink is of the full duplex type, comprising two uplinks:
- a. C-band UPL-1 in the following frequencies:
  1) 4.4 to 4.65 GHz
  2) 4.85 to 5.1 GHz
- b. UHF band UPL-2 in the frequencies of 465 MHz to 510 MHz.

An in-flight selection of operating channels is provided for the two Uplinks and the Downlink and an Anti-jamming capability for the primary Uplink channel.

The Datalink features BIT facilities.

The major components of the Datalink system are the GDT and the ADT.

Flight tests of RPA after their manufacture will be 2500 feet altitude.