



SKYNET® TRANSPONDER SERVICES UPLINK ACCESS PROCEDURES

PRELIMINARY STEPS to be taken by uplinker:

1. **Obtain Cxr ID #** and Review Service Order
2. Antenna Pointed at Proper Satellite.
3. Transmitter Terminated in a Dummy Load or Disabled.
4. Transmitter Tuned to Proper Frequency.
5. Transmit Polarizer Set to Proper Polarization.
ALL TELSTAR satellites have orthogonal U/L & D/L Polarization)
6. Transmitter Set for LOW Power Operation, No Subcarrier, Unmodulated. (Also known as "CW")
7. Call the Hawley Center on (570) 226-6622 and **provide the CXR ID# to the Hawley operator.**

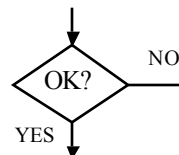
Hawley Procedures

Uplink Procedures

Hawley Access Center will verify **Cxr ID#**, Customer order for correct times, satellite, transponder, and the uplink provider.

Hawley directs the uplink operator to illuminate the transponder.

Hawley attempts to verify presence of the carrier at proper frequency and polarization.



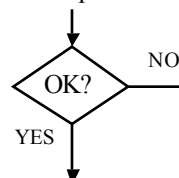
Uplink transmits with low power (~10 W), unmodulated, and no subcarrier. (Energy dispersal is required for C-band)

Hawley will direct uplink operator to increase power to saturation.

NEW USER: Uplink will gradually increase power in 1dB steps until Hawley determines the saturation power. (Reference 3.4.1)

REPEAT USER: Uplink will adjust transmitter to the saturating output power level. (Reference 3.4.2)

Hawley measures cross polarization isolation.



Uplink will adjust polarizer as necessary. (Hawley determines if isolation is sufficient.)

Hawley requests uplink to modulate carrier.

Uplink will modulate the carrier .

Hawley will verify signal bandwidth .

UPON COMPLETION (End of Service) , THE UPLINK WILL TERMINATE THE EQUIPMENT AND NOTIFY HAWLEY OF THE TRANSMITTER TERMINATION TIME.