UPLINK PROCEDURE

Before your transmission - what do you need to know?

- Your transmission reference (also called “synopsis number”, eg. 19-123456)
- Your transmission timings (in UTC) and the transmission parameters confirmed for your booking:
  - Satellite and transponder
  - Channel name
  - Uplink and downlink frequency
  - FEC
  - Symbol rate, pilot insertion
  - TS value
  - Encoding standard, aspect ratio
  - Encryption key

STEP-BY-STEP LINE-UP PROCEDURE:

- Using satellite beacon frequency, point your antenna to the satellite.
- Set your spectrum analyzer to the downlink frequency in order to monitor the carrier.
- Set the transmitter to standby mode at maximum attenuation.
- Set your equipment (main and backup transmission chains):
  - enter parameters into the encoder and connect source of the signal to its input,
  - clearly identify your main and backup uplink chains by service name (eg. SNG CODE_1 & SNG CODE_2),
  - connect the encoder TS output to the modulator,
- prepare your modulator for given TS and symbol rate/FEC.
- 20 minutes before the transmission call EVC Geneva (please have your transmission reference ready) to verify the transmission parameters.
- The EVC Geneva will confirm whether you can access the satellite channel.
- 15 minutes before the transmission call the satellite provider (see contact phone numbers above) and follow the line-up procedure. You will be asked to provide:
  - earth station registration code,
  - satellite, transponder, frequency slot allocation, and uplink polarization.
- Be ready to follow satellite operator’s instructions:
  - transmit signals at different power levels (both unmodulated and modulated),
  - peak the transmit antenna, and rotate/adjust the transmission antenna polarizer.
- When the line-up is completed call back EVC Geneva and test your transmission settings including encryption of both main and backup chains and do your transmission.
- Make sure that the EVC Operator has your phone number for further use.

DURING THE TRANSMISSION:

- Never leave your station. Make sure that you are always reachable by phone.
- Permanently monitor your downlink (audio/video) and spectrum analyzer.
- Do not forget to inform EVC about any changes of schedule, extension etc.
- SNG must respect the power levels given during the line-up procedure.

AFTER THE TRANSMISSION:

- Check with the production on site and make sure that program is finished.
- Call EVC to “goodnight” your transmission and reconfirm the end timing (in UTC).
- Make sure that your carrier is de-activated and the transmit chain is switched off.

* Extract from the ITU-R.SNG-1710 Universal Access Procedures.

This document is provided to SNG operators as a reminder. It is highly recommended the official ITU-R.SNG-1710 is studied in detail in order to understand the line-up process and avoid any unintentional access and possible interference caused by incorrect access.