

Appendix 18 – IFLOWS

Integrated Flood Observation and Warning System

Motorola will provide the Commonwealth with eight (8) analog conventional repeaters called “IFLOWS” to allow for IFLOWS data communications among the nine IFLOWS data repeater tower sites (collocated with STARS) in the Commonwealth’s IFLOWS network. Each IFLOWS data repeater will consist of a Quantar conventional analog radio repeater with a factory-installed duplexer. Also, a triple circulator will be provided and mounted on a peripheral tray.

Refer to Appendix 5 for detailed technical specifications regarding the analog conventional Quantar repeater.

Motorola System Integration will install, program, optimize, and test for proper operation an IFLOWS Data Quantar at each of the following tower site locations:

- Beamer Knob – Site 1404
- Bear Den Mtn. – Site 1308
- Big A Mtn – Site 1407
- High Knob – Site 1409
- Hogback Mtn. – Site 1206
- North Mtn. – Site 1609
- Poor Mtn. – Site 1602
- White Top Mtn. – Site 1405

Motorola will connect the Quantar’s factory-installed duplexer to the Commonwealth’s existing antenna network and the Quantar’s wireline interface to the Commonwealth’s existing microwave interfaces (four-wire E&M circuits). The Commonwealth will be responsible for the performance of the existing Commonwealth IFLOWS antenna network and the existing Commonwealth microwave network equipment at each IFLOWS tower site in the Divisions that STARS has not yet reached.

The IFLOWS replacement equipment will support the existing rain gauge data operation. Please refer to the migration plan regarding microwave migration details.