

SHORT-HAUL RADIO FACILITIES ASSIGNMENT OF CONTROL OFFICES

1. GENERAL

1.01 This section describes the assignment of control offices for the operation and maintenance of short-haul radio facilities. It conforms to the concept of receive end controls. It is limited to the radio portion of the transmission facility in terms of:

- (a) Radio sections.
- (b) Switching sections.

1.02 It applies only to short-haul radio facilities. Long-haul microwave radio control office assignments are covered in Section 660-095-916PT.

1.03 The responsibilities of control offices for the operation and maintenance of short-haul radio facilities are covered in Section 660-095-917PT.

1.04 The assignment of a Radio (R) Unit control office is covered in Section 660-095-913PT.

2. DEFINITIONS

2.01 Short-haul Radio Facility: Generally a base-band system consisting of one or more radio links connected in tandem. The repeaters are composed of terminals connected through back-to-back at base-band frequency. The radio links may or may not be protected by automatic protection switching, (e.g., TJ, TL, TM, Lenkurt 74 and 76, Motorola, RCA, Farinon, etc.).

2.02 Radio Link: The radio facility between two radio repeaters. For the purpose of this practice, generally, a radio link and a switching section are the same. However, there may be some special cases when the switching section includes two or more radio links in tandem.

2.03 Radio Unit (R Unit):

- (a) On protected channels, it extends from the input of the switching section at the transmitting end to the output of the switching section at the receiving end.
- (b) On non-protected channels, it extends from the input of the radio transmitter to the output of the radio receiver of each radio link.

2.04 Radio Section: For the purpose of this practice, it consists of the multiplexed radio facility between the point where the multiplex channels enter the radio facility and the point where the multiplex channels leave the radio facility.

2.05 Switching Section: Includes all the radio facilities between the beginning and the end of the protection switching channel. In the case of non-protected channels, it is each radio link.

2.06 Protection Channel: One or more radio links providing a protection facility between the input and the output of a switching section.

2.07 Radio Section Control Office: The receive terminal office of a radio section.

2.08 Switching Section Control Office: The receive end radio station of a switching section. It also controls the protection and any plant maintenance channels in that direction of transmission.

2.09 Maintenance Center Office: The home office of the force which maintains the equipment in one or more of the designated radio stations. This office should be selected with the concurrence of the Division Plant Manager (Toll), Division Toll Manager, or Plant Manager.

2.10 Alarm Center Office: A fully attended office where the alarm or alarms from one or more radio stations terminate. A central office where the alarms are received from a radio station located on the premises is considered an alarm center. In addition to the terminating of alarms, the alarm center may initiate remote operations at the served radio stations. This office should be selected with the concurrence of the Division Plant Manager (Toll), Division Toll Manager, or Plant Manager.

3. SELECTION OF CONTROL OFFICES

3.01 The rules outlined for selecting control offices should be followed. However, if deviations are necessary, they shall be authorized by the Division Plant Manager (Toll), Division Toll Manager, or Plant Manager.

Radio Section Control Office

3.02 Radio section control offices are selected according to the following priorities:

- (a) Receive end controls.
- (b) A Bell System office normally controls both directions of transmission when one terminal is in an independent company office.

Switching Section Control Office

3.03 Switching section control offices are selected according to the following priorities:

- (a) At fully attended switching section offices, the receive end controls all maintenance and operational functions.
- (b) At partially attended switching section offices, generally, the receive end controls maintenance functions at all times and operational functions during attended hours. During unattended hours, the switching section control office may delegate to the alarm center office:
 - Switching operations
 - Granting of releases
- (c) At partially attended switching section offices where extenuating conditions exist, these conditions shall be reviewed and referred to the Division Manager according to 3.01. He may assign the alarm center for the receive end as the control office for all maintenance and operational functions.
- (d) A Bell System office normally controls both directions of transmission if one end terminates in an independent company office.