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(1) For the purpose of this section, the service radius of a base station may be calculated using the following formula:

$$d_{km} = 2.53 \times h_m 0.34 \times p^{0.17}$$

where d_{km} is the radial distance in kilometers,
 h_m is the antenna HAAT of the base station in meters, and
 p is the e.r.p. of the base station in watts.

(2) Alternatively, licensees may use any service radius contour formula developed or generally used by industry, provided that such formula is based on the technical characteristics of their system.

(f) Upon meeting the five and ten year benchmarks in paragraphs (a), (b), and (c) of this section, or upon meeting the substantial service alternative in paragraph (d), licensees shall notify the Commission by filing FCC Form 601 and including a map and other supporting documentation that demonstrate the required geographic area coverage, population coverage, or substantial service to the licensed area. The notification must be filed with the Commission within 15 days of the expiration of the relevant period.

(g) If the sale of a license is approved, the new licensee is held to the original build-out requirement.

(h) Failure by a licensee to meet the above construction requirements shall result in forfeiture of the license and ineligibility to regain it.

[59 FR 14118, Mar. 25, 1994, as amended at 65 FR 35852, June 6, 2000]

§ 24.104 Partitioning and disaggregation.

Nationwide, regional, and MTA licensees may apply to partition their authorized geographic service area or disaggregate their authorized spectrum at any time following grant of their geographic area authorizations.

(a) *Application required.* Parties seeking approval for partitioning and/or disaggregation shall apply for partial assignment of a license pursuant to § 1.948 of this chapter.

(b) *Partitioning.* In the case of partitioning, applicants and licensees must file FCC Form 603 pursuant to § 1.948 of this chapter and describe the partitioned service area on a schedule to the

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application. The partitioned service area shall be defined by up to 120 sets of geographic coordinates at points at every 3 degrees azimuth from a point within the partitioned service area along the partitioned service area boundary unless either an FCC-recognized service area is used (*e.g.*, MEA or EA) or county lines are followed. The geographical coordinates must be specified in degrees, minutes, and seconds to the nearest second latitude and longitude, and must be based upon the 1983 North American Datum (NAD83). In the case where FCC-recognized service areas or county lines are used, applicants need only list the specific area(s) through use of FCC designations or county names that constitute the partitioned area.

(c) *Disaggregation.* Spectrum may be disaggregated in any amount.

(d) *Combined partitioning and disaggregation.* Licensees may apply for partial assignment of authorizations that propose combinations of partitioning and disaggregation.

(e) *License term.* The license term for a partitioned license area and for disaggregated spectrum shall be the remainder of the original licensee's license term as provided for in § 1.955 of this chapter.

(f) *Coverage requirements for partitioning.* (1) Parties to a partitioning agreement must satisfy at least one of the following requirements:

(i) The partitionee must satisfy the applicable coverage requirements set forth in § 24.103 for the partitioned license area; or

(ii) The original licensee must meet the coverage requirements set forth in § 24.103 for the entire geographic area. In this case, the partitionee must meet only the requirements for renewal of its authorization for the partitioned license area.

(2) Parties seeking authority to partition must submit with their partial assignment application a certification signed by both parties stating which of the options they select.

(3) Partitionees must submit supporting documents showing compliance with their coverage requirements as set forth in § 24.103.

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(4) Failure by any partitionee to meet its coverage requirements will result in automatic cancellation of the partitioned authorization without further Commission action.

(g) *Coverage requirements for disaggregation.* (1) Parties to a disaggregation agreement must satisfy at least one of the following requirements:

(i) Either the disaggregator or disaggregatee must satisfy the coverage requirements set forth in §24.103 for the entire license area; or

(ii) Parties must agree to share responsibility for meeting the coverage requirements set forth in §24.103 for the entire license area.

(2) Parties seeking authority to disaggregate must submit with their partial assignment application a certification signed by both parties stating which of the requirements they select.

(3) Disaggregatees must submit supporting documents showing compliance with their coverage requirements as set forth in §24.103.

(4) Parties that accept responsibility for meeting the coverage requirements and later fail to do so will be subject to automatic license cancellation without further Commission action.

[65 FR 35853, June 6, 2000]

EFFECTIVE DATE NOTE: At 65 FR 35853, June 6, 2000, §24.104 was added. This section contains information collection and record-keeping requirements and will not become effective until approval has been given by the Office of Management and Budget.

§ 24.129 Frequencies.

The following frequencies are available for narrowband PCS:

(a) Eighteen frequencies are available for assignment on a nationwide basis as follows:

(1) Seven 50 kHz channels paired with 50 kHz channels:

- Channel 1: 940.00–940.05 and 901.00–901.05 MHz;
- Channel 2: 940.05–940.10 and 901.05–901.10 MHz;
- Channel 3: 940.10–940.15 and 901.10–901.15 MHz;
- Channel 4: 940.15–940.20 and 901.15–901.20 MHz;
- Channel 5: 940.20–940.25 and 901.20–901.25 MHz;
- Channel 19: 930.50–930.55 and 901.30–901.35 MHz; and
- Channel 20: 930.75–930.80 and 901.90–901.95 MHz.

(2) Three 50 kHz channels paired with 12.5 kHz channels:

- Channel 6: 930.40–930.45 and 901.7500–901.7625 MHz;
- Channel 7: 930.45–930.50 and 901.7625–901.7750 MHz; and
- Channel 8: 940.75–940.80 and 901.7750–901.7875 MHz;

(3) Two 50 kHz unpaired channels:

- Channel 9: RESERVED;
- Channel 10: 940.80–940.85 MHz; and
- Channel 11: 940.85–940.90 MHz.

(4) One 100 kHz unpaired channel:

- Channel 18: 940.65–940.75 MHz.

(5) Two 150 kHz channels paired with 50 kHz channels:

- Channel 21: 930.00–930.15 and 901.50–901.55 MHz; and
- Channel 22: 930.15–930.30 and 901.60–901.65 MHz.

(6) Three 100 kHz channels paired with 50 kHz channels:

- Channel 23: 940.55–940.65 and 901.45–901.50 MHz;
- Channel 24: 940.30–940.40 and 901.55–901.60 MHz; and
- Channel 25: 940.45–940.55 and 901.85–901.90 MHz.

(b) Five frequencies are available for assignment on a regional basis as follows:

(1) One 50 kHz channel paired with 50 kHz channel:

- Channel 12: 940.25–940.30 and 901.25–901.30 MHz.
- Channel 13: RESERVED.

(2) Four 50 kHz channels paired with 12.5 kHz channels:

- Channel 14: 930.55–930.60 and 901.7875–901.8000 MHz;
- Channel 15: 930.60–930.65 and 901.8000–901.8125 MHz;
- Channel 16: 930.65–930.70 and 901.8125–901.8250 MHz; and
- Channel 17: 930.70–930.75 and 901.8250–901.8375 MHz.

(c) Seven frequencies are available for assignment on an MTA basis as follows:

(1) Three 50 kHz unpaired channels:

- Channel 26: 901.35–901.40 MHz;
- Channel 27: 901.40–901.45 MHz; and
- Channel 28: 940.40–940.45 MHz.

(2) One 50 kHz channel paired with 50 kHz channel: