**Section 1250.1420 Need**

a) Criteria #1: What is the projected community need for the service?

b) Standard #1: There is adequate capability to treat all patients requiring therapeutic radiology. The capability of existing equipment should be sufficient to treat the volume of patients projected requiring treatment.

c) Data Factors:

1) Projected community need

2) Historical volume

3) Time Function Analysis Factors

A) Volume

B) Average time per treatment

C) Operation schedule

4) Demographics of area including age mix, poverty level and income of residents.

5) Projected number of cancer patients requiring therapeutic radiology.

d) Standard #2: Each program providing the service should have a minimum of 300 new cancer cases annually requiring treatment to support the program.

e) Data Factors:

1) Existing referral patterns.

2) Projected cancer cases by population characteristics.

3) Projected number of cancer patients by type within service area.

4) Actual number of new cancer treatment courses started in Illinois programs.

5) Actual number of new cancer treatment courses started on residents of each HSA.

6) Cancer patients requiring therapeutic radiology.

7) The actual volume of new cancer cases treated by facility.

8) The actual hours of operation of equipment (time per procedure).

9) The projected treatment time based on projected incidence of cancer patients requiring treatment.

f) Standard #3: Each piece of megavoltage therapeutic radiology equipment should operate at an optimum utilization of 7500 treatments annually.

g) Data Factors: Historical utilization volume per piece of equipment.