

REQUEST FOR ANTENNA TOWER

Organization: American Red Cross
1221 N. Maple
Rapid City, SD

RECEIVED

JUN 19 2007

Response to: Zoning item No. 07SR022
June 21

Rapid City Growth
Management Department

300 6th St.

Purpose of Antenna

The Black Hills Regional Chapter of the American Red Cross is responsible for providing disaster response to the western portion of the state of South Dakota. This area roughly covers all counties west of the Missouri River.

In order to effectively meet this response capability, dependable communications will be necessary to meet our response requirements. During power outages effecting landlines and internet communications, the Red Cross will need to be able to communicate to its field volunteers, other Red Cross units and Red Cross Service Area Headquarters. Our primary responsibility in disaster response is mass care and this activity could be fully supported through proper communications.

Allowing the installation of this tower will satisfy this requirement and secure a communications network in order to respond to our community disasters and clients in a timely manner.

Service Area

The tower will serve all county communications in Western South Dakota. The specific counties include. The attached map specifies these locations.

Tower Specifications

Support Configuration: VHF Low band - VHF High band - UHF T-Band -
MHZ requirement: 47.42mhz

Antennas for local area disaster and administrative communications are used for licensed Red Cross frequencies.

Long wire multi-band dipole antenna- used for licensed Red Cross long ranged HF frequencies and internet communications.

See attached photos for size and proportions.

Design Features and Mounting Requirements of Antenna

The design of this tower is

Height: 62 Feet. Self Supporting Tower
Tower has 8 Ft. Sections that reduce in size when assembled

A Flagpole type of tower would not safely support the types of antennas that we need to erect even if it were feasible to mount a multi-band dipole on said tower.

Location

Since our communications equipment is not remote controllable, the physical location of the tower will need to be located at the Red Cross Chapter house.

The tower would be bordered to the South by the Rapid City Fire Department [RCFD] Station 7, to the North and across the street by an open field and to the East and across the street the parking lots of the Bethel Assembly of God church. Our building and its parking lots would be to the West.

- Building Permit- Prior to installing this tower, a building permit will be obtained with plans for the tower stamped by a Registered Professional Engineer.
- Setbacks will need to be met per Section 17.18.050

Chapter License and Associations:

Black Hills Chapter has a working agreement with the Pennington Co. ARES (Amateur Radio Emergency Services) and also holds a station license from the Amateur Radio Service.

Chapter possesses necessary equipment to operate the licensed station.

Thank you for your consideration.


Respectfully submitted

Scot Davison, Interim Executive Director
Black Hills Area Chapter
American Red Cross, NHQ
Chapter Solutions Manager



- Black Hills**
- Bennett**
- Butte**
- Corson**
- Custer**
- Dewey**
- Fall River**
- Haakon**
- Harding**
- Jackson**
- Jones**
- Lawrence**
- Meade**
- Mellette**
- Perkins**
- Shannon**
- Todd**
- Ziebach**