

FEB 06 2019

Agenda Item # 7A

To: Napa County Planning Commission and John McDowell, Planner

Re: Sage Canyon Telecommunication Facility P18-00397-UP

Date: February 6, 2019

The following observations, considerations and recommendations are provided to the Napa County Planning Commission regarding the proposed Sage Canyon Telecommunication Facility P18-00397-UP.

1. The power level of 100 watts (W) in the basic information sheet seems incorrect for the proposed LTE antenna array; that number could be per antenna panel and would need to be multiplied by the number of panels in each antenna array (e.g. nine) and by the ultimate number of antenna arrays that may be mounted on the proposed tower (e.g. up to 12) for $100 \times 9 \times 12 = \sim 10,800$ W. Personal concerns about RF exposure levels for this facility are negligible as the LTE technology is well established.
2. Consider halving the height of the tower from 127 feet, as it is already 630 feet on a ridgeline above Hwy 128.
3. Suggest the tapered broad-leaf pine antenna design over the cylindrical, ugly silo-shaped design.
4. Consider the potential impact of high winds on the broad-leaf antenna design as wind speeds in excess of 90 mph were recorded on Atlas Peak during the recent wine-country fires in October of 2017.
5. Recommend avoiding a metallic antenna shaft coating and give strong preference to a brown or tan shaft coloration similar to the antenna near the open field that is 5-6 blocks east of downtown Napa.
6. While electrical power passageway to the antenna facility seems not to be a part of the proposed design, please avoid any new power poles up the rather steep hillside from the highway. Alternatives include a) running power poles or trenching next to the proposed access road along the top of the ridge (with no power poles or trenching added to the hillside) and b) installing a suitably sized solar panel array with battery storage and diesel generator backup to provide off-grid operation to avoid potential fire-causing power lines up the hillside and cutting of trees under the power lines.
7. Ensure FAA lighting requirements are met for such a high structure.

Thank you for your consideration.

David W. Burns

APN 032-460-005 (unimproved parcel the east of the subject parcel)