# Wireless Telecommunications Committee
# Annual Report for Calendar Year 2015

*Yellowstone National Park*
*January 1, 2015 to December 31, 2015*

The purpose of the Telecommunications Committee is to:

1. Receive and address requests for wireless service
2. Ensure proposals adhere to the wireless communications plan
3. Make recommendations to the Superintendent regarding any action to be taken.

| | Proposals Rcvd. | Date Received | Recommendation | Superintendent |
|---|---|---|---|---|
| 1 | YA Satellite ISP for PCI Compliant CC | 01/15/2015 | Approve | Approve |
| 2 | AT&T replace antennas at Mt Washburn | 02/12/2015 | Approve | Approve |
| 3 | Wi-Fi at Albright VC | 02/13/2015 | Approve | Approve |
| 4 | NorthWestern Washburn Antennas | 03/03/2015 | Approve | Approve |
| 5 | New NPS LMR Tower West Ranger | 06/16/2015 | Approve | Approve |
| 6 | New NPS LMR Tower Lake Ranger | 06/16/2015 | Approve | Approve |
| 7 | Phys Science Weather Stations | 08/17/2015 | Approve | Approve |
| 8 | Fire Watch Cam Mt Holmes, Sheridan | 08/05/2015 | Approve | Approve |

Recommended:

Bret De Young — APRIL 25, 2016
Wireless Committee Representative — Signature — Date

Approved:

Daniel N. Wenk — 4/25/2016
Superintendent — Signature — Date

Public comments were collected and considered throughout the scoping and planning process for the Wireless Communications Services Plan Environmental Assessment (EA). In lieu of public meetings, the NPS provides this annual report, available to the public, which includes; a list of proposals received/reviewed by the Wireless Telecommunications Committee (WTC), recommendations from the WTC to the Superintendent, action taken by the Superintendent, and a summary of each proposal. The Committee consists of four representatives from Park Planning, Resource Management, and Telecommunications and is led by the Supervisory Telecommunications Specialist.

## Summary of Proposals Received:

**1** – YA Satellite ISP for PCI Compliant CC

The Yellowstone Association requested approval to install satellite internet service in its bookstores at the Norris Geyser Basin Museum, Madison Info Station, West Thumb Contact Station, Grant Visitor Center, and Fishing Bridge Museum. The upgrade (from traditional phone lines) is necessary to comply with new EMV liability shift affecting credit card processing. The purpose of the satellite internet service is for credit card processing. WiFi services will not be provided to visitors.

**2** –Replace AT&T antennas on Washburn

AT&T requested approval to replace the existing three (3) 10' tall omni antennas at their Mount Washburn site with three (3) x 6' panel antennas (dimensions 72" x 12" x 6.3"). These sector panel antennas will direct nonionizing radiation away from the fire lookout residence and will be more effective at directing signals to desired locations in developed areas.

**3** – Wi-Fi at Albright VC

This proposal was submitted on behalf of NPS Information Resources for a service wide pilot program that would provide free public WiFi at the Albright Visitor Center. NPS Washington (WASO) Information Resources would provide the managed and configured Cisco Meraki access point and router.

**4** – NorthWestern Washburn Antennas

NorthWestern Energy proposed to install three 6' panel antennas on the Mount Washburn Fire Lookout to support their existing LMR and SCADA system which was described in the November 2013 Electric Transmission/Distribution System Communication and Automation Plan Environmental Assessment. One omni and one Yagi antenna from previous NorthWestern Energy installations were replaced.

**5** – New LMR Tower at West Ranger Station

The NPS radio shop requested approval to construct a twenty-five foot tower on the south west side of the West Entrance Ranger Station to replace the antenna mount attached to the Ranger Station eave. The new tower would provide a stable support for the existing NPS 16' omni antenna. The Ranger Station sits 166 yards from the West Entrance Road and is obscured by a mature Lodgepole pine and Douglas fir forest. The new tower would be hidden behind the ranger station opposite of the road.

**6** – New LMR Tower at Lake Ranger Station

The NPS radio shop proposed to construct a forty-five foot tower on the NW side of the Lake Ranger Station Fire Cache to replace the existing tower adjacent to the Ranger Station. The move will increase the tower's distance from the public roadway from 27 yards to 50 yards. The tower will have two 1'x1'x6" NPS network panels and a 10' omni antenna mounted on it for NPS land mobile (public safety) radio.

**7** – Weather Station Mount Washburn

Yellowstone's Physical Science Branch proposed to install one temporary NPS-owned weather station on the Mt. Washburn fire lookout building and a second in the Gardiner basin. Both stations would use satellite uplink equipment and are self-powered by solar arrays. The Mount Washburn installation is temporary until a permanent site can be proposed at the generator shed. The Gardiner basin station would be ground-based. Both stations will provide accurate, consistent, real-time data in key locations to help better understand local weather effects and long term climate trends.

**8** – Fire Watch Cam Mt Holmes, Sheridan

The fire cache requested approval to deploy automated cameras on the Mt. Holmes and Mt. Sheridan fire lookouts for fire incidents. Automated cameras on Mt. Sheridan and Mt. Holmes would allow the Fire Management Program to remotely monitor natural ignitions while decreasing the need for daily flights and the associated environmental impacts and exposure to risks. Two additional panel antennas will be placed on the Bunsen Peak communications tower to relay the signal from the Mammoth Fire Cache to Mount Sheridan, and Mammoth to Mount Holmes.