

# Wireless Telecommunications Committee Annual Report for FY14

## *Yellowstone National Park*

*January 1, 2014 to December 31, 2014*

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 Union Wireless collocation Lake	12/11/2013	Approve	Approve
2 Yellowstone Research Library Wi-Fi	1/16/2014	Approve	Approve
3 ATT COLT Old Faithful	03/19/2014	Approve	Pending
4 ATT Collocation Mammoth	05/12/2014	Reject	Reject
5 Xanterra Wi-Fi Roosevelt Employee Res	5/27/2014	Reject	Reject
6 UNAVCO Data Collectors	7/21/2014	Approve	Approve
7 ATT Collocation Grant	8/1/2014	Approve*	Approve*
8 ATT Collocation Lake	8/1/2014	Reject	Reject
9 Verizon Microwave on Mount Washburn Fire Lookout	9/29/2014	Reject	Reject
10 Verizon Microwave on new Tower at Mount Washburn	10/23/2014	Pending	Pending
11 Xanterra Wi-Fi Paintbrush dorm	11/18/2014	Approve	Approve

*\*Pending approved and permitted backhaul solution*

Recommended:

Bret De Young

Wireless Committee Representative

  
Signature

02/18/2015  
Date

Approved:

Steven lobst

Acting Superintendent

  
Signature

2/19/2015  
Date

## Descriptions of Proposals Received:

### 1 – Union Wireless collocation Lake

Union Telephone Company (UTC) proposed the addition of four (4) panel antennas to be mounted on the existing Verizon owned cellular tower located at the Lake facility. The panels measure 8'2"H x 1'W x 7.1"D and would be mounted at 75 feet from ground level. The Committee recommended approval and stated that the RF footprint must not increase coverage to the backcountry compared to existing services and that the highest signal strength should be directed towards the developed area. Union proposed no additional fence, buildings, or tower structures beyond what already exists. Finalization of any right-of-way permit is pending appraisal, signal propagation maps, and approval by the Regional Director.

### 2 – Yellowstone Research Library Wi-Fi

The Research Library submitted a request to install (DSL ISP) Wi-Fi for the patrons of the reading room located in the Heritage and Research Center (HRC) in Gardiner, MT. Various on-line library databases and resources, as well as the site used by Clemson University and Internet Archives to digitize the park's historic library material, require the fastest commercial ISP service available. Password protected Wi-Fi would be available only to library/archive patrons at the HRC who are conducting research in the collections. The Committee felt that this proposal was consistent with the Wireless Plan and recommended approval.

### 3 – ATT COLT Old Faithful

This AT&T GSM technology cell site proposal was for the temporary deployment of a Cell on Light Truck (COLT) that would be parked at the Old Faithful Water Treatment plant during the summer season. AT&T's intent was to analyze coverage data, evaluate the performance of a satellite uplink, gauge the visual impacts in the historic district, and determine the general feasibility of relocating the existing site to this location as was suggested in the Wireless EA. The Committee recommended that the Superintendent approve this request pending additional compliance and lease appraisal as it is consistent with the intent of the Wireless Communications Plan. Before the Superintendent could review, AT&T asked Yellowstone to suspend the proposal while they determine if they wish to submit an application for a permanent site instead.

### 4 – ATT collocation Mammoth

AT&T proposed collocation on the existing Elk Plaza (VZW) tower and the construction of a new communications facility and standby power at the existing Verizon Elk Plaza tower site. Their proposal included the expansion of the existing compound area by 1,000 square feet, new fencing, a new equipment building and a new backup generator/propane tank. 600 meters of additional CenturyLink fiber/cable would be buried from the meet point to the site. Twelve LTE antennas would be placed on the existing tower not higher than 80' from the base (ground). The new equipment ground shelter would be 11'5" x 20' with an 8' patio for generator/propane tank. The proposal also included the addition of exterior lighting on all three sectors. The Committee did not recommend that this proposal go forward as it needlessly expands the boundaries and infrastructure at the site and was inconsistent with goal of site clustering in the Wireless Plan. The proposal was rejected.

### 5 – Xanterra Wi-Fi Roosevelt Employee Residence

Xanterra Parks and Resorts proposed to install and provide wireless internet access to their employees for personal use at their Roosevelt living quarters. Access point antennas would be strategically located to restrict wireless coverage from extending in to the historic Roosevelt Lodge area and would be password protected so as not to be utilized by visitors. The Wireless Plan states that wi-fi will not be approved where most visitors are likely to expect a historic or rustic setting or experience. The Committee felt that such close proximity between employee housing and the Roosevelt Lodge and Cabins would make it impossible to confine the wi-fi signal to employee housing and that the presence of wi-fi within the historic setting would detract from the visitor's experience. The proposal was rejected.



## **6 – UNAVCO Data Collectors**

The Plate Boundary Observatory, operated by University NAVSTAR Consortium (UNAVCO) for the National Science Foundation in partnership with the Yellowstone Volcano Observatory proposed the addition of five (5) data collector/battery cabinets and monitor units at equal points along the shoreline of Lake Yellowstone. This equipment is used to monitor Yellowstone Lake seiche waves and associated crustal deformation for the purpose of providing data on subsurface magma characteristics. The monitors communicate with the cabinets via UHF radio. Minimum Requirements complete, and research permit issued. The Committee recommended approval.

## **7 – ATT collocation Grant**

AT&T proposed to co-locate GSM technology cellular equipment on the existing Grant Village Verizon cell tower and construct a new 12' x 24' equipment and generator room inside a 50' x 50' fenced area. Twelve (12) 8' panel antennas, nine (9) remote radio heads and three (3) surge protectors would be mounted on the existing monopole at RAD center 80'. This existing site is adjacent to the Grant Village water tank in an area that obscured by mature lodgepole forest. The Committee recommended approval pending lease appraisal, coverage map that indicates that this proposal meets the intent of the Wireless Plan, and an approved backhaul solution.

## **8 - ATT Collocation Lake**

AT&T proposed to co-locate equipment at the existing Fishing Bridge (Lake) Verizon Wireless 100' lattice tower with an antenna array of nine (9) 8' panel antennas, twelve (12) remote radio heads and three (3) surge protectors mounted at RAD center of 110'. A new 10' extension was proposed to be added to the existing 100' tower and a 24' x 11'5" concrete pad was proposed on the north side of the complex for the placement of a 16' x 11'5" equipment room and generator/propane tank. The Committee determined that the proposal to add 10' to the tower is not consistent with the tower height criteria in the Wireless Plan. The proposed (A) sector was not consistent with the Plan as it appears to deliver service to the backcountry. Recommend rejection.

## **9 – Verizon Microwave on Mount Washburn Fire Lookout**

In consideration of exploring alternatives to the concept of building a free standing tower on Mount Washburn, Verizon proposed installing an 8' microwave (MW) dish on the side of the fire lookout adjacent to the existing CenturyLink MW dishes. This would facilitate a transport link to the Denny Creek MW leg and support a bandwidth upgrade to the Mount Washburn cell site. After consulting with WY SHPO, the Committee recommended rejection of the proposal due to the potential adverse effects of attaching an 8' MW dish to the historic property.

## **10 – Verizon Microwave on new Tower at Mount Washburn**

In the interest of increasing bandwidth to their cell towers in the interior of Yellowstone, Verizon submitted a proposal to build an H-Frame self supporting structure adjacent to the fire lookout that is consistent with the 10% conceptual design developed by the NPS in 2012. The purpose of the proposal was to support a proprietary microwave path from West Yellowstone to Mount Washburn, then distributed to Grant Village and Lake Yellowstone (Fishing Bridge) sites. The proposal was lacking enough information for the Committee to consider and was tabled. The Committee asked Verizon for a full and complete package should they wish for the park to consider the proposal.

## **11 – Xanterra Wi-Fi Paintbrush Dorm**

Xanterra Parks and Resorts proposed to install fourteen (14) WiFi access points in the new Paintbrush Dormitory at Old Faithful for subscriber password protected ISP service for Xanterra employees residing in the dorm. The Committee determined that this proposal was consistent with the Wireless Plan and recommended approval.

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.

National Park Service  
U.S. Department of the Interior



Yellowstone National Park  
Idaho, Montana, Wyoming

## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by Applicant

**Date Submitted:** December 11, 2013

**Department:** Union Telephone Company

**Project Lead:** Patti Brockman – site acquisition

**Alternative 1:** Union Telephone Company (UTC) would like to add four 8'2"H x 1'W x 7.1"D Amphenol panel antennas mounted at 75' on center and 12 lines of coax to the existing Verizon Wireless WY3 tower at Lake. UTC submitted an SF299 request for right of way permit provide GSM cellular service at Lake. Propagation survey and engineering drawings attached.

**Alternative 2:** None provided

### List justification for preferred alternative:

The FONSI states that cell phone coverage will be allowed at the Lake developed area. UTC's GSM technology proposal meets the Wireless Plan objective to improve operational effectiveness of wireless communications in the park and safety for park visitors, employees, residents, contractors and concessioners. Antennas will be configured to minimize spillover into Yellowstone's backcountry. Union will utilize existing infrastructure and will locate their antennas 25' below the top of the tower to remain hidden from view of historic districts and area hiking trails.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☒ Yes ☐ No

<u>Reviewed By:</u>	<u>Name (print):</u>	<u>Signature:</u>	<u>Date:</u>
Telecomm Rep	Dustin Sene		1-22-14
Compliance Rep	Doug Madsen		1-16-14
Resource Mgmt. Rep	Dan Reinhart		1/16/14
Telecom Supervisor	Bret De Young		1/16/14



### Recommended action by the Committee:

- ☒ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☐ Reject the proposal

### Remarks from the Committee:

Click here to enter text.

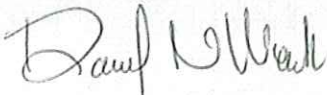
RF FOOTPRINT MUST BE COMPARABLE TO THE EXISTING PROVIDER WITH THE HIGHEST SIGNAL STRENGTH IN THE DEVELOPED AREA

## Section 3 - To be completed by the Superintendent

### Superintendent Action:

- ☒ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☐ Reject the proposal

**Signature:** Daniel Wenk



**Date:**

3/17/2014

### Comments:

Click here to enter text.

### Telecommunications Committee

This FONSI modifies Alternative C by clarifying the role of the Telecommunications Committee. To clarify, this committee will 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.

The committee will ensure that any new proposals follow the intent of the preferred alternative (i.e. proposals will need to fall within the actions and areas discussed in the alternative and adhere to the limitations imposed under the preferred alternative). Any new proposals to install additional wireless communications services, repeater sites, or equipment will be reviewed by the park Telecommunications Committee, which is led by the telecommunications specialist and comprised of members from compliance and resource programs. This committee will review each proposal for purpose and need, resource impacts, and adherence to the guidance established by this plan, NPS DO-53, frequency coordination, and permitting by the FCC. The committee will also determine whether each proposal meets the objectives of the plan. The committee will make recommendations to the superintendent regarding the allowance of new or altered Wireless Communications Facilities (WCFs). The committee will also update the criteria established in this plan based on technology changes, make recommendations based on new technology, and document all decisions regarding wireless communications projects. Also as a point of clarification, as a part of the committee process, site specific consultation for National Register listed or eligible property (such as Mt. Washburn, Old Faithful) will take place between the NPS and the Wyoming State Historic Preservation Officer (SHPO) to comply with Section 106 of the National Historic Preservation Act. The NPS will write a short annual report that will be available to the public, and include a list of proposals received, proposals reviewed, what decisions were made, and what actions were taken. If proposals are received that entail actions outside of the scope of the Wireless Communications Plan EA, a separate scoping and public review process will take place under a new NEPA document.

National Park Service  
U.S. Department of the Interior



Yellowstone National Park  
Idaho, Montana, Wyoming

## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by Applicant

**Date Submitted:** 01/16/2014

**Department:** YCR/Yellowstone Research Library

**Project Lead:** Colleen E. Curry

**Alternative 1:** This request is for DSL wireless service for patrons of the Yellowstone Research Library reading room, located in the HRC in Gardiner. Various on-line library databases and resources, as well as the site used by Clemson University and Internet Archives to digitize the park's historic library materials, require a much faster service than we currently have on the two non-networked public terminals. Researchers can also store and access their files on the Cloud. WiFi services with CenturyLink was encouraged by Andy Bilton as a solution.

**Alternative 2:** Click here to enter text.

### List justification for preferred alternative:

The WiFi (7M) would be a separate DSL (not part of the NPS network) installed by CenturyLink, through YA, and paid for by YA. It would only be available to library/archives patrons at the HRC conducting research in the collections (it would not be available to those who just want to check email or surf; our public terminals are also currently restricted in this way). Overall, the faster speed will remove former limitations and make the researcher's experience more pleasant and successful. The account will be password protected and changed periodically. We would like the WiFi, if approved, to be available by spring 2014. WiFi is currently offered at the SAFR and GRCA NPS Libraries.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☒ Yes ☐ No

<u>Reviewed By:</u>	<u>Name (print):</u>	<u>Signature:</u>	<u>Date:</u>
Telecomm Rep	Dustin Sene		2-20-14
Compliance Rep	Doug Madsen		2-20-14
Resource Mgmt. Rep	Dan Reinhart		2/20/2014
Telecom Supervisor	Bret De Young		2/20/2014



### Recommended action by the Committee:

- ☒ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☐ Reject the proposal

### Remarks from the Committee:

Click here to enter text.

REQUEST IS CONSISTENT WITH THE WIRELESS COMMUNICATIONS PLAN

(BOS)

### Section 3 - To be completed by the Superintendent

#### Superintendent Action:

- ☒ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☐ Reject the proposal

#### Signature:

Daniel Wenk

*Daniel Wenk*

#### Date:

3/13/2014

#### Comments:

Click here to enter text.

### Telecommunications Committee

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National Park Service  
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Yellowstone National Park  
Idaho, Montana, Wyoming

## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

<b>Applicant name:</b>	Rich Fenton	<b>Organization:</b>	NSA Wireless for New Cingular Wireless
<b>Date:</b>	3/19/2014	<b>Park Location:</b>	Yellowstone National Park
<b>Telephone:</b>	541-490-3497	<b>Email:</b>	Rich@fccminc.com
<b>Description of the Proposal:</b>	<p>This proposal consists of the COLT (Cell on Light Truck) system being temporarily deployed at the water treatment facility (44.454930°, -110.811015°) to the East of Old Faithful at Yellowstone National Park. AT&amp;T requests that this system be deployed during peak visitation. The purpose of this proposed COLT deployment is to analyze coverage data, visual impacts and the feasibility to relocate to this site. Access to the proposed site and water treatment facility will use existing roads from Grand Loop Rd. Proposed site is .96 miles at a heading of 104.62 degrees from The Old Faithful Education Center which is at an elevation of 7,375', the proposed site elevation is 7,580'.</p> <p><b>Visits by Technicians</b> Radio Technicians would typically visit this site two or less times per month. The exception to this is during weather related outages or technical emergencies. Technicians will notify YELL_Access@nps.gov 48 hours prior to accessing the site unless it is an emergency.</p> <p><b>Utility Design</b> The COLT would require a 200 amp panel, but run on 30 amp breakers. Back haul the COLT has a built in satellite back haul system no onsite back haul is required. The COLT tower is adjustable. The acceptable tower height will be determined by the NPS.</p>		

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☒ Yes ☐ No

<u>Reviewed By:</u>	<u>Name (print):</u>	<u>Signature:</u>	<u>Date:</u>
Radio/Telecomm	Dustin Sene		3/30/14
Compliance Rep	Doug Madsen		3/25/14
Resource Mgmt.	Dan Reinhart		3/25/2014
Chair (Telecom)	Bret De Young		3/25/2014



**Recommended action by the Committee:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☒ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☐ Reject the proposal

**Remarks from the Committee:**

FORWARDED TO SUPERINTENDENT UPON COMPLETION OF CLV APPRAISAL - BOY 6/5/14  
APPRAISAL INITIATED 08/14/2014

**Section 3 - To be completed by the Superintendent****Superintendent Action:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☐ Reject the proposal

**Superintendent Signature:****Date:****Comments:****Telecommunications Committee**

This FONSI modifies Alternative C by clarifying the role of the Telecommunications Committee. To clarify, this committee will 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.

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*From Page 2 of the WIRELESS COMMUNICATIONS SERVICES PLAN – FINDING OF NO SIGNIFICANT IMPACT, April 7, 2009*

National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

<b>Applicant name:</b>	Tory Garcia	<b>Organization:</b>	New Cingular Wireless PCS, LLC
<b>Date:</b>	5/12/2014	<b>Park Location:</b>	Mammoth
<b>Telephone:</b>	208-861-7517	<b>Email:</b>	tory.garcia@powderriverdev.com
<b>Description of the Proposal:</b> <i>Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.</i>	<p>In an effort to improve current network capabilities in and around Mammoth/Yellowstone, New Cingular Wireless PCS, LLC d/b/a AT&amp;T is proposing the installation of a new communications site and equipment to co-locate on the existing Verizon tower at Elk Plaza.</p> <p>To accommodate the new ground shelter, the compound fencing would be expanded by 1,000 square feet to contain the shelter, backup generator, and propane tank. CenturyLink fiber/cable would need to be upgraded via direct bury to site. Verizon has offered preliminary approval for antenna tops at 80 ft, including 12 LTE antennas, 9 radio remote heads, and 3 surge suppression systems. The equipment ground shelter will be 11'5" by 20' with an 8' patio for the generator and propane tank. Construction submittals indicate exterior lighting and antennas installed on all three sectors. Signal propagation maps were not included in the package but have been requested.</p>		

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan?

☐ Yes ☒ No

<b>Reviewed By:</b>	<b>Name (print):</b>	<b>Signature:</b>	<b>Date:</b>
Radio/Telecomm	Dustin Sene		8/4/14
Compliance Rep	Doug Madsen		8/12/14
Resource Mgmt.	Dan Reinhart		8/4/14
Chair (Telecom)	Bret De Young		8/11/14



### Recommended action by the Committee:

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☒ Reject the proposal

### Remarks from the Committee:

The expansion of the site boundaries by 1000 sf, and installation of a new shelter and generator in this application is not consistent with the Wireless Communications Plan and the Committee can not make a recommendation to approve the proposal to the Superintendent.

The inclusion of the Wireless Communications Plan criteria for Wireless Communications Facilities to co-locate was deliberate and intended to encourage clustering at sites.

"FONSI p44 Multiple proponents for proposed WCFs in the same area would be encouraged to enter into joint ventures to reduce impacts to the park and simplify the park's review process. To reduce the number of individual WCF sites, proponents would locate their proposed WCFs with other existing or proposed facilities, including those operated by other carriers, whenever feasible. New sites would, where feasible and consistent with other park objectives, be constructed so that they can accommodate co-location or clustering with future WCFs. Right-of-way permits would contain provisions for proportionate reimbursement of construction costs by future WCF proponents if subsequent co-location occurs."

## Section 3 - To be completed by the Superintendent

### Superintendent Action:

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☒ Reject the proposal

**Superintendent Signature:**

*David W. Webb*

**Date:**

*4/12/2014*

**Comments:**

### Telecommunications Committee

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*From Page 2 of the WIRELESS COMMUNICATIONS SERVICES PLAN – FINDING OF NO SIGNIFICANT IMPACT, April 7, 2009*

National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Jim McCaleb	Organization:	Xanterra Parks and Resorts
Date:	5/27/2014	Park Location:	Roosevelt Employee Cabins
Telephone:	307-344-5209	Email:	jmccaleb@xanterra.com

**Description of the Proposal:**

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

Xanterra Parks and Resorts requests approval from the NPS to install and provide wireless Internet access for Xanterra employees at their Roosevelt living quarters. Xanterra proposes careful placement of antennas in order to restrict signals from covering the historic lodge to protect the expected visitor experience. A map of the Roosevelt employee cabins is attached.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☐ Yes ☒ No

Reviewed By:	Name (print):	Signature:	Date:
Radio/Telecomm	Dustin Sene		6/2/14
Compliance Rep	Doug Madsen		5/30/14
Resource Mgmt.	Dan Reinhart		5/29/14
Chair (Telecom)	Bret De Young		5/29/2014



### Recommended action by the Committee:

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☒ Reject the proposal

### Remarks from the Committee:

Wi-Fi will not be approved where most visitors are likely to expect a historic or rustic setting or experience. By limiting authorized locations for Wi-Fi infrastructure under the park's and concessioners' control, the NPS is attempting to establish Wi-Fi free zones in most historic lodging areas.

Reference pages 6 and 7 of the Wireless Communications Services Plan Finding of No Significant Impact (FONSI).

## Section 3 - To be completed by the Superintendent

### Superintendent Action:

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☒ Reject the proposal

**Superintendent Signature:**

*Paul N. Wink*

**Date:**

*4/4/2014*

**Comments:**

*Requests: Look for alternatives for Xanterra Employees through  
Cell Service/Coverage*

### Telecommunications Committee

This FONSI modifies Alternative C by clarifying the role of the Telecommunications Committee. To clarify, this committee will 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.

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*From Page 2 of the WIRELESS COMMUNICATIONS SERVICES PLAN – FINDING OF NO SIGNIFICANT IMPACT, April 7, 2009*

National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by Applicant

Date Submitted: 21 July 2014

Department: Geology

Project Lead: Karen Luttrell and David Mencin of the Plate Boundary Observatory, operated by UNAVCO for the National Science Foundation in partnership with the Yellowstone Volcano Observatory

Alternative 1: Add 3 data collector/battery cabinet and monitor units (2 ea) at the locations indicated on the attached map in 2014 and 2 data collector/battery cabinet and monitor units (2 ea) at the locations indicated on the map in 2015. The purpose is for the characterization of subsurface magma in the Yellowstone Caldera by monitoring Yellowstone Lake seiche waves and associated crustal deformation. Seismic seiches are standing waves set up on rivers, reservoirs, ponds, and lakes when seismic waves from an earthquake pass through the area. Equipment will be installed after ice is off the lake and removed before travel on roads becomes difficult.

Alternative 2: Click here to enter text.

### List justification for preferred alternative:

All proposals in the YVO Monitoring Plan are equipment upgrades to existing facilities

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☒ Yes ☐ No

<u>Reviewed By:</u>	<u>Name (print):</u>	<u>Signature:</u>	<u>Date:</u>
Telecomm Rep	Dustin Sene		7/31/14
Compliance Rep	Doug Madsen		8/12/14
Resource Mgmt. Rep	Dan Reinhart		7/31/14
Telecom Supervisor	Bret De Young		7/31/2014



**Recommendation to  
Superintendent**

☒ Approve ☐ Deny ☐ Other (see remarks)

**Remarks from the Committee:** None

**Additional Compliance Review  
Required:**

MRA and Research Permit (ongoing)

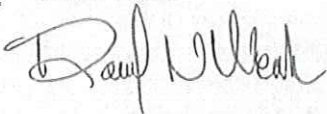
COMPLETE (BY)  
PER S. GUNTHER

**Section 3 - To be completed by the Superintendent**

**Superintendent approval**

☒ Approve ☐ Deny

**Signature:** Daniel Wenk



**Date:**

8/12/2014

**Comments:**

**Telecommunications Committee**

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National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Rich Fenton	Organization:	NSA Wireless for New Cingular Wireless
Date:	8/01/2014	Park Location:	Yellowstone National Park
Telephone:	541-490-3497	Email:	Rich@fccminc.com

#### Description of the Proposal:

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

The proposed site would collocate with the existing Grant Village Verizon Wireless 112' lattice tower and existing shelter with an antenna array consisting of (12) 8ft panel antennas, (9) remote radio heads and (3) surge protectors mounted at a RAD center 80'. New 50' by 50' compound lease area for a 24' by 11'5" equipment shelter, 500 gallon propane tank and generator.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan? ☒ Yes ☐ No

Reviewed By:	Name (print):	Signature:	Date:
Radio/Telecomm	Dustin Sene		9-16-14
Compliance Rep	Doug Madsen		9-11-14
Resource Mgmt.	Dan Reinhart		9/15/14
Chair (Telecom)	Bret De Young		9/11/2014



**Recommended action by the Committee:**

- ☒ Approve the proposal for service (no additional compliance or permitting is required)  
☒ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)  
☐ Reject the proposal

**Remarks from the Committee:**

Approve concept pending approval of coverage map.  
Pending and approved backhaul solution and associated compliance

**Section 3 - To be completed by the Superintendent**

**Superintendent Action:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)  
☒ Proceed with the permitting process  
☐ Reject the proposal

**Superintendent Signature:**

*Dan U. Webb*

**Date:**

*9/18/2014*

**Comments:**

**Telecommunications Committee**

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National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Rich Fenton	Organization:	NSA Wireless for New Cingular Wireless
Date:	8/01/2014	Park Location:	Yellowstone National Park
Telephone:	541-490-3497	Email:	Rich@fccminc.com

#### Description of the Proposal:

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

The proposed site would collocate on the existing Fishing Bridge (Lake) Verizon Wireless 100' lattice tower with an antenna array consisting of (9) 8ft panel antennas, (12) remote radio heads and (3) surge protectors mounted at a (vertical) RAD center of 110'. A new 10' extension would be added to the tower, and a 24' by 11'5" concrete pad would be added on the north side of the tower where AT&T would place a 16' by 11'5" equipment room and generator. A new 500 gal propane tank would be placed on a pad on the east side of the tower.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan?

☐ Yes ☒ No

Reviewed By:	Name (print):	Signature:	Date:
Radio/Telecomm	Dustin Sene		9-16-14
Compliance Rep	Doug Madsen		9-11-14
Resource Mgmt.	Dan Reinhart		9/15/14
Chair (Telecom)	Bret De Young		9/11/2014



**Recommended action by the Committee:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)  
☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)  
☒ Reject the proposal

**Remarks from the Committee:**

The proposal to add 10 feet to the tower is not consistent with the tower height parameters as defined in the Wireless Communications Plan EA and FONSI, nor is it consistent with the categorical exclusion. The A sector in the proposal is also not consistent with Plan whose intent is to not provide coverage in the backcountry.  
Any proposal would be dependent on an approved backhaul solution and additional compliance.

**Section 3 - To be completed by the Superintendent****Superintendent Action:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)  
☐ Proceed with the permitting process  
☒ Reject the proposal

**Superintendent Signature:****Date:****Comments:****Telecommunications Committee**

This FONSI modifies Alternative C by clarifying the role of the Telecommunications Committee. To clarify, this committee will 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.

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National Park Service  
U.S. Department of the Interior

Yellowstone National Park  
Idaho, Montana, Wyoming



## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Patricia Zittleman	Organization:	Wyoming 1 - Park Limited Partnership
Date:	9/29/2014	Park Location:	Mount Washburn
Telephone:	206-883-7031	Email:	patricia.zittleman@taec.net

#### Description of the Proposal:

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

Verizon Wireless will install an 8' microwave dish, at 10' centerline on the existing structure at Mt. Washburn, in Yellowstone National Park. The current permit 1570-02-0003 expired in 2013, and a new permit is being processed. The new permit did not take in to account the addition of this dish.

Photo sims and wireless paths are attached to this proposal. The application was received on 9/29/2014.

PURPOSE: To INCREASE BANDWIDTH TO VERIZON'S CELLULAR NETWORK IN YELLOWSTONE'S INTERIOR.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan?

☐ Yes ☐ No

Reviewed By:	Name (print):	Signature:	Date:
Radio/Telecomm	Dustin Sene		10/16/14
Compliance Rep	Doug Madsen		10/27/14
Resource Mgmt.	Dan Reinhart		10/16/14
Chair (Telecom)	Bret De Young		10/16/14



**Recommended action by the Committee:**

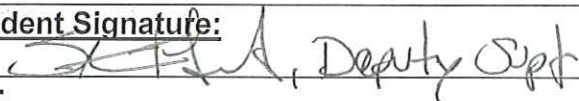
- ☐ Approve the proposal for service (no additional compliance or permitting is required)  
☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)  
☒ Reject the proposal

**Remarks from the Committee:**

The Committee recommends rejection of this proposal due to the potential adverse effects of attaching an additional 8' microwave dish to the historic property and that the preferred alternative in the Wireless Communications Plan FONSI included construction of a new structure to mount antennas already located on the Mount Washburn fire lookout building. The Park will consider all options to construct a new structure that would reduce visual intrusions on visitors and the historic structure, while at the same time addressing the needs of the Park and the safety and security aspects of the site's proximity to a highly-used visitor destination.

**Section 3 - To be completed by the Superintendent****Superintendent Action:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)  
☐ Proceed with the permitting process  
☒ Reject the proposal

**Superintendent Signature:****Date:**

10/29/2014

**Comments:****Telecommunications Committee**

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National Park Service  
U.S. Department of the Interior

DRAFT



Yellowstone National Park  
Idaho, Montana, Wyoming

## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Patricia Zittleman	Organization:	Wyoming 1 - Park Limited Partnership
Date:	10/23/2014	Park Location:	Mount Washburn
Telephone:	206-883-7031	Email:	patricia.zittleman@taec.net

#### Description of the Proposal:

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

Verizon Wireless proposes to install an 8' microwave dish on a new H-frame next to an existing structure at Mt. Washburn, in Yellowstone National Park. The new H-frame will be constructed to be robust enough for collocation, and will be in compliance with the historic preservation. The purpose is to provide a proprietary microwave transport path to deliver up to 600 MB wireless transport to interior Verizon sites to allow Verizon to provide 4G LTE service to Yellowstone Verizon customers.

An SF299 Application for Transportation and Utility Systems and Facilities on Federal Lands form, application fee, and drawings of the proposed antenna structure was included in this . The application was received on 10/23/2014.

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan?

☐ Yes ☐ No

<u>Reviewed By:</u>	<u>Name (print):</u>	<u>Signature:</u>	<u>Date:</u>
Radio/Telecomm	Dustin Sene		
Compliance Rep	Doug Madsen		
Resource Mgmt.	Dan Reinhart		
Chair (Telecom)	Bret De Young		



**Recommended action by the Committee:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)
- ☐ Reject the proposal

**DRAFT****Remarks from the Committee:**

The Committee recommends rejection of this proposal due to the potential adverse effects of attaching an additional 8' microwave dish to the historic property and that the preferred alternative in the Wireless Communications Plan FONSI included construction of a new structure to mount antennas already located on the Mount Washburn fire lookout building. The Park will consider all options to construct a new structure that would reduce visual intrusions on visitors and the historic structure, while at the same time addressing the needs of the Park and the safety and security aspects of the site's proximity to a highly-used visitor destination.

**Section 3 - To be completed by the Superintendent****Superintendent Action:**

- ☐ Approve the proposal for service (no additional compliance or permitting is required)
- ☐ Proceed with the permitting process
- ☐ Reject the proposal

**Superintendent Signature:****Date:****Comments:****DRAFT****Telecommunications Committee**

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U.S. Department of the Interior



Yellowstone National Park  
Idaho, Montana, Wyoming

## PROPOSAL for NEW WIRELESS SERVICE

### Section 1 - To be completed by the Applicant

Applicant name:	Don Clark Director IT	Organization:	Xanterra Parks and Resorts
Date:	11/18/2014	Park Location:	Old Faithful
Telephone:	Phone 307-344-5250	Email:	dclark@xanterra.com

#### Description of the Proposal:

*Describe your proposal and include the location, duration of the installation, and type of equipment. If you have photo simulations, drawings, and cut-sheets, they should be submitted with this form. Contact Bret De Young at (307) 344-2070 if you have questions about this submittal.*

Xanterra Parks and Resorts proposes to install 14 WiFi access points in the new Xanterra Paintbrush Dormitory at Old Faithful to provide subscriber password protected ISP service to Xanterra employees inside the dormitory.

Ruckus-7372 5GHz A access point  
Ruckus-7372 2GHz A access point

### Section 2 - To be completed by the Wireless Committee

Does this proposal adhere to the Wireless Communications Plan?

☒ Yes ☐ No

Reviewed By:	Name (print):	Signature:	Date:
Radio/Telecomm	Dustin Sene		11/20/14
Compliance Rep	Doug Madsen		11/20/14
Resource Mgmt.	Dan Reinhart		11/20/2014
Chair (Telecom)	Bret De Young		11/20/2014



**Recommended action by the Committee:**

- ☒ Approve the proposal for service (no additional compliance or permitting is required).  
☐ Approve pending additional compliance and/or permitting (right-of-way, NEPA, Section 106)  
☐ Reject the proposal

**Remarks from the Committee:****Section 3 - To be completed by the Superintendent****Superintendent Action:**

- ☒ Approve the proposal for service (no additional compliance or permitting is required)  
☐ Proceed with the permitting process  
☐ Reject the proposal

**Superintendent Signature:****Date:**

12/1/2014

**Comments:****Telecommunications Committee**

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