



"Kevin Howell"  
<khowell@digitalskylines.com

To <Dustin\_Sene@nps.gov>

cc

>  
11/09/2009 10:06 AM

bcc

Subject RE: FW: Fishing Bridge 150' tower\_

History: This message has been replied to.

She was worried without the height that she could not cover the hotel very well.

She also said without the added height, she had no chance at getting signal to Bridge Bay where the boats are.

I am still trying to get an answer on the fake tree.

Thanks,

Kevin

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Please visit our updated website!

-----Original Message-----

From: Dustin\_Sene@nps.gov [mailto:Dustin\_Sene@nps.gov]  
Sent: Monday, November 09, 2009 10:00 AM  
To: Kevin Howell  
Subject: Re: FW: Fishing Bridge 150' tower\_

Kevin,

I will take this to the wireless committee meeting this month and see where they would like to go. I am sure that I will have to take it to the superintendent for review. Can I tell her that Verizon is willing to put up a "tree" tower like the one on the Madison? Also, just so I have a good idea here to explain to everyone, why do we have to go higher than the original plan? The engineer is aware that the wireless plan calls for service at the fishing bridge area and the lake hotel area only, we are not looking for service at bridge bay. I just want to make sure this is all clear before I take this to Suzanne.

I got the checks today, I am working on a Qwest proposal right now, I will get on these 299's as soon as I can.

Thanks man,

DS

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**Wireless Telecommunications Committee**  
Meeting Agenda for Wednesday, January 20, 2010

Location: YCR Conference Room  
Time: 9:00AM

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**Old Business**

**Solicitor review of Alltel SF-299 application to Co-Locate with Verizon at Elk Plaza – Technology Services** received an SF 299 Application for Utility Systems on Federal Lands from Digital Skyline (Alltel) to co-locate at the Elk Plaza site with Verizon. The Committee suggested the word “road” be changed to the more descriptive “access route” in regards to Alltel’s responsibility for damages and rehabilitation to the access route that leaves the old Gardiner Road near the Beaver Ponds trailhead. The Committee reviewed all of the solicitor’s recommended changes to the application form. Once amended, Technology services will forward the SF 299 form to the Superintendents’ office with a recommendation to submit to the Regional Director for signature. As this is a migration and is not considered new wireless service, a new wireless proposal was not submitted to the Wireless Telecommunications Committee (WTC).

**New Business**

**Cellular Courtesy Signage types/locations, develop proposal for Superintendent–** The Committee agreed to invite Carolyn Duckworth and Lori Gruber to the February 17 meeting to discuss the inclusion of cellular courtesy messages in the spring edition of the park newspaper, and cellular courtesy signage construction, wording, and installations. The Committee will formulate a proposal for the Superintendent for a pilot cellular courtesy notification program in 2010 after the February 17 WTC meeting.

**Informational Updates**

**Lake Verizon Cell Tower SF-299 Application for Utility Systems on Federal Lands –** The Park received an SF 299 from Verizon for the Lake Wireless Communication Facility on January 19, 2010. The Park has 120 days from January 19 to (among other requirements defined by RM 53 Special Park Uses) contact other cellular providers in the area, publish a notice in the Federal Register, submit for FOTSC review, and respond to Verizon with a decision, to, or not to, go forth. FOTSC stands for Field Operations Technical Support Center, a field office of the Washington Park Facility Management Division located in Denver, Colorado (303-969-2084). To initiate FOTSC technical review, the park will send a copy of the application and all drawings showing RF coverage, location of tower and or antenna array, and other information needed to base a technical opinion on, to the Chief of Radio Frequency Management, FOTSC, Denver. The FOTSC review will determine if the proposed use will conflict with communications facilities and technologies, not only for the currently applied for use, but those applications proposed in the future as well.

Verizon is proposing a one-hundred foot tower which, according to the submitted propagation surveys, would adequately provide coverage to the Lake developed area. The Committee expressed concerns that the one-hundred foot tower could be more than twenty feet above the existing trees, and would require additional justification in accordance with the FONSI.

**OF Cell Tower Migration Update –** The Park will contact Verizon and inform them that the Old Faithful cell tower migration will be included in the next (Old Faithful WCF) right of way (ROW) agreement. The current ROW for the Old Faithful WCF expires in September 2010. The FONSI states that the Old Faithful cell tower will be relocated to an area near the water treatment plant when it becomes feasible.



Doug Madsen/YELL/NPS  
01/22/2010 08:28 AM

To Bret DeYoung/YELL/NPS@NPS  
cc Bret DeYoung/YELL/NPS@NPS, Dan  
Reinhart/YELL/NPS@NPS, Dustin Sene/YELL/NPS@NPS  
bcc  
Subject Re: First Draft of the Jan 20 Meeting Minutes

History: This message has been replied to.

FOTSC stands for Field Operations Technical Support Center, a field office of the Washington Park Facility Management Division located in Denver, Colorado (303-969-2084). To initiate FOTSC technical review, the park will send a copy of the application and all drawings showing RF coverage, location of tower and or antenna array, and other information needed to base a technical opinion on, to the Chief of Radio Frequency Management, FOTSC, Denver. The FOTSC review will determine if the proposed use will conflict with communications facilities and technologies, not only for the currently applied for use, but those applications proposed in the future as well.

Re: Meeting Minutes, New Business, should be Lori Gruber, not Linda Gruber, FYI, Lori has been invited to our Feb. 17 meeting and has agreed to attend. Should we state anything about the committee not completely comfortable with a 100 foot tower for Lake? Tower should be kept to absolute minimum height needed to provide coverage for developments only. Otherwise meeting minutes look good.

Doug Madsen  
Outdoor Recreation Planner  
P.O. Box 168  
Yellowstone National Park  
Wyoming 82190  
307-344-2017  
Bret DeYoung/YELL/NPS



Bret DeYoung/YELL/NPS  
01/21/2010 06:36 PM

To Dan Reinhart/YELL/NPS@NPS, Doug  
Madsen/YELL/NPS@NPS, Dustin Sene/YELL/NPS@NPS,  
Bret DeYoung/YELL/NPS@NPS  
cc  
Subject First Draft of the Jan 20 Meeting Minutes

WTC,

Could you all please look over these draft minutes, and comment/correct as necessary.

- Dustin, please make sure I didn't destroy the SF299 process in the Lake WCF piece.
- Can anyone explain the long form of the acronym FOTC? I can't seem to find anything. - thanks.

Thanks,

Bret

Bret De Young

A2435  
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Wireless Telecommunications Committee  
Meeting Minutes from Thursday, April 14, 2011  
Location: Tech Services Conference Room  
Time: 8:30 A.M.

**WTC Members in Attendance:**

Bret De Young, Supv. Technology Services  
Dustin Sene, Radio Technician  
Dan Reinhart, Resource Mgmt. Ops. Coordinator  
Doug Madsen, Compliance Outdoor Recreation Planner

**Proposals**

PTP Wireless Network Bridging Equipment: Andy Bilton submitted a proposal for Motorola Wireless equipment to be installed on the Old Faithful Ranger and Emergency Services Buildings (ESB) to improve network and telephone services to the ESB. The panel antenna will be mounted on the roof of the Ranger Station on the side facing away from the geyser basin. The panel antenna on the ESB will be mounted where least visible and safely accessible. Visibility is less of a concern at the ESB as it is located in the OF service area. The Committee recommended approval to the Superintendent. Install a wireless network bridge from the Old Faithful Ranger Station and ESB\Maintenance buildings at Old Faithful. Remove the existing mesh antenna and mount a 15" x 15" X 5" panel antenna on the existing antenna mast on the roof. At the ESB, we would be mounting a 15" x 15" X 5" panel antenna on the existing LMR antenna tower on the back side of the building. Equipment proposed is identical to the equipment installed on the approved proposal for the Motorola PTP from Telecom to Garage received in 2011.

RAWS Weather Station Proposal:

Becky Smith, Fire Ecologist, has submitted proposals to the Wilderness Committee for consideration of new RAWS sites. Once the Wilderness Committee and Wilderness Coordinator make their determinations, the Wireless Committee can expect to see their proposals.

Relocation of the Lake Butte YVO Research Webcam:

There have been discussions regarding moving the YVO Webcam from Lake Butte to the Biscuit Basin. The Wireless Committee had a preliminary discussion regarding adherence to the Wireless Plan at the considered locations, however no formal request have been received. The original approval conditions from 12/20/09 Proposal include: *1. The park geologist and Wireless Telecommunications Committee would be notified prior to moving unit to a new location to seek park input. 2. Any deployment of this equipment would be consistent with Appendix A of the Wireless Communications Plan FONSI. 3. Backcountry deployments would occur with input and approval from park staff, Images from backcountry deployments would not be made public.*

**Informational Updates**

Washburn Antenna Migration Engineering

Bret and Dustin went over the current revisions to the draft Statement of Work. The Engineering contract will go out to bid to technically qualified firms. A sources sought was sent out in February. Several interested A& E firms responded. Bret demonstrated a project overview that can be presented to management, operators, and the public.

Lake Cellular WTF site

Kevin Howell Skyline (Verizon) called Bret in March to express concern about the 10ft above canopy height restriction for the tower and that it eliminates co-location with other providers. 10' to 16' of separation is required to eliminate cross signal. Kevin felt that the EA requirement may limit the Lake area to one provider. The Committee felt that the antenna array at the Washburn telecom site demonstrates clearly that antennas operating on similar frequencies can be spread out horizontally and

A2435  
xD5027

**Wireless Telecommunications Committee**

Meeting Minutes from Thursday, June 16, 2011

Location: Tech Services Conference Room

Time: 8 A.M.

WTC Members in Attendance: Bret De Young, Supv. Technology Services

Doug Madsen, Compliance Outdoor Recreation Planner

Dustin Sene, Radio Technician

**Proposals:**

Fire Webcam – Proposal to consider for fire monitoring on Mount Washburn, would be viewed from Fire Dispatch and not made available to the public. Actually portable, mounted on a tripod and would stand on top of lookout. Committee recommended that proposal be reworded with actual details of camera deployment purposes. Cite FONSI page 31 NPS response to question regarding response to wildfires. Committee discussed page 9 of FONSI regarding minimizing visibility of camera by camouflage or building an enclosure around it and that they should seek guidance from cultural resources to avoid damaging historic structure. Committee stated that proposal should address whether camera is permanent or mobile.

RAWS –Proposal not received in time for meeting.

**Business:**

Lake Cellular WTF Site – Committee viewed final engineering plan and photo simulations. Three companies should be able to co-locate on tower and stay within the 20 feet above tree height criteria. Right-of-way permit (ROW) will contain specific language regarding visibility, i.e. should be non-reflective and blend with surroundings. NPS Telecom will complete the draft ROW and walk it around for editing.

**Informational Updates**

Qwest Generator at Grant – Forwarded to the Compliance committee as there are no Wireless EA components.

WAMP Phase 1 –Contracting thinks it would be difficult and restrictive to write a work statement to develop three alternative antenna platforms. Contracting recommended that language be changed to state more than one alternative proposal. Would need conceptual and developmental alternative and construction drawings from NPS preferred alternative. Money has to be obligated in FY 11.

Construction money programmed for FY 12 - 13 but could be pushed back. The Committee recommended that fire suppression system be added to contract to address priority #2 in the Historic Structures Report.

Qwest Fiber PSC to Gardiner – Suggest that Qwest waste excess material on site. Anticipate Skyline Construction (Qwest Sub) to return on around July 1. Will need to contact NPS prior to work. Need to bury three handholds, bore under Reese Creek and the removed trestle, and blow in fiber.

PTP Wireless Network Bridging Equipment – NPS project update on the WTC and superintendent approved Old Faithful Ranger Station to ESB/Maintenance wireless project, this is being installed in the next week.

South (Sheridan) Repeater – Radio Shop scheduled flight next week to install temporary antenna and restore repeater service.

Purple Mountain Antenna Removal Report – Committee agreed that this should be put in the annual report as an example of good stewardship.

**Roundtable – Non Agenda items**