

City Council Staff Report	
Subject:	Discussion of Rocky Mountain Power's Substation Location
Authors:	
Authors.	Matthew Cassel, P.E., City Engineer Thomas Eddington, Planning Director
Date:	November 15, 2012
Type of Item:	Informational

Recommendations:

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This discussion is about the final location of the Park City Substation currently located in the Bonanza Park (BoPa) re-development area and proposed to be moved to the 1555 Lower Iron Horse Drive location. Staff recommends that Council discuss and provide direction to relocate the substation to 1555 Lower Iron Horse Drive or to expand the existing substation.

Topic/Description:

With the existing Park City substation nearing capacity, Rocky Mountain Power's (RMP) goal is to have the expanded/relocated Park City substation on line by the fall of 2015. To meet this timetable, RMP is looking for direction by the end of January to either upgrade the existing substation or relocate the substation to 1555 Lower Iron Horse Drive.

Background:

Rocky Mountain Power (RMP) owns the Park City Substation in the Bonanza Park area which is critical to the City's power grid. It takes transmission line energy and converts it to distribution level charges that flow to homes and businesses in a significant portion of Park City. The substation is currently running nearly full. According to state law, RMP is under obligation to provide service and has determined that the Park City power grid must be upgraded. The upgrades are according to a regional power grid improvement and service area upgrade master plan that area officials helped shape about three (3) years ago.

RMP created a Summit Wasatch Electrical Task Force in 2009, which spent over a year developing a long range plan for Summit and Wasatch Counties. Park City was represented on this task force. The purpose of the plan was to integrate local government's long-term land use development plans with future electrical network requirements. Principles from this plan may not necessarily reflect the position of each particular jurisdiction, but those involved support it as a good-faith effort to balance community and regional quality of life and economic development consideration with the need to ensure that all jurisdictions in Summit and Wasatch Counties have a safe, adequate and reliable supply of electricity.

This discussion is the first phase of a much larger discussion concerning the future of overall power in Park City. This phase focuses entirely on the relocation/expansion of the existing PC substation located in the Bonanza Park area. Once the substation location is determined, staff will be returning to City Council with the next phase, which will address power pole alignment to the substation, power pole height through Old Town, and the upgrade of the Judge Substation.

RMP approached the City approximately eighteen (18) months ago indicating that the Park City Substation is extremely close to capacity and is in need of expansion. The goal is to have the substation expansion occur within the next two (2) years – to be up and running in 2015. Staff recognized that this was the opportunity to investigate the possibility of moving the substation. Discussion took place concerning relocation options available for Park City including:

- If the substation is moved less than a ¼ mile from its current site, the magnitude of the cost impacts might be reasonable.
- The possible combination of the Judge Substation (located at the top of Daly Avenue) and the Park City Substation into one and relocating it to the Judge Site. RMP saw this as a very expensive option because the new transmission lines would need to be routed up to the site and new distribution lines would need to be routed out from the substation.
- The possible combination of the Judge Substation and the Park City Substation into one and relocating it to a "better" site. Again, RMP saw this as a very expensive option because the new transmission lines would need to be routed up to the new site and new distribution lines would need to be routed out from the substation.

As staff has continued to work through this process, the goals of PCMC for the Bonanza Park area were taken into account. Staff recognized the importance of ensuring that all infrastructure projects are well thought out and planned to effectuate the City's BoPa Plan. Moving the substation is an important first step in this ongoing process. Accordingly, RMP, staff and community stakeholders identified seven (7) possible sites within a ¼ mile of the existing substation. It should be noted that staff site selections only included un-developed or partially developed sites. The proposed sites included:

- Current location looking to expand to the north (Recycle Center);
- Current location looking to expand to the west (Mark Fischer's property);
- 2125 Monitor Drive directly behind the cemetery (to the northeast of the Boothill Water facility);
- 1100 Snow Creek between Snow Creek Shopping Center and behind Zion's Bank;
- A site adjacent to our Aeries water tank;
- Powdr Corporation's property off Munchkin Road; and
- 1185 Lower Iron Horse (the property located at the end of Lower Iron Horse).

Each of these sites was rated by staff using the Summit Wasatch Electrical Plan Scorecard provided in the RMP Long Range Plan. Once the sites were selected and evaluated, the scorecard was turned over to RMP so they could start their analysis of each site. With four (4) staff members scoring, the site rankings using the RMP score sheet are as follows (the higher the score, the more desirable):

٠	Existing location (Recycle Center or Mark Fischer's Property)	104
٠	2125 Monitor Drive	93
٠	1100 Snow Creek	92
٠	Site adjacent to Aerie tank	86
٠	Powdr Corporation's property	85
٠	1185 Lower Iron Horse	54

After an April 25, 2011 meeting between local land owners and RMP, Mark Fischer offered his property located at 1555 Lower Iron Horse Drive as a potential location for the substation. Staff prepared GIS drawings for RMP showing zoning, property lines, setback requirements and other environmental concerns. After RMP had a chance to review the maps, staff and RMP visited each of the sites on Mark Fischer's property to determine the feasibility (as determined by RMP criteria) of each. Through their evaluation, RMP eliminated all but two (2) sites. A map is included in the exhibits showing the location of these two sites.

The two (2) final sites identified do have a total of three (3) alternatives as described below:

- 1555 Lower Iron Horse Drive with the incoming transmission power lines remaining in their existing alignment,
- 1555 Lower Iron Horse Drive with the incoming transmission power lines moved to the east of Bonanza Drive, and
- Expansion of the existing substation.

On September 12, 2011, the Mayor, City Council Member Simpson and the City Manager asked RMP to consider moving the substation to1555 Lower Iron Horse Drive. This request was consistent with recent discussions about Bonanza Park redevelopment. While Park City has been working with Rocky Mountain Power on the analysis of the two (2) identified sites, Mark Fischer has also been dealing directly with Rocky Mountain Power. Park City is not involved with Mark Fischer's deal negotiation with RMP.

On December 1, 2011, RMP and staff provided information to City Council during the work session. This discussion included how the final two sites were selected, why the substation needs to be expanded/relocated, how the sites might look, positives and negatives of the sites and the next steps to be taken in the process.

Since the December 1, 2011 meeting, RMP has been evaluating these two (2) sites and three options, including site visits, survey and trying to fit their pieces of equipment on

both sites. RMP has worked cooperatively with staff evaluating these sites and indicated that they do not have a preference between either site. A lot of work has been done over this last year, and in September 2012, staff was finally comfortable that the information was robust enough to start the stakeholder and public meetings and to come to Council for further discussion.

RMP, though, is pushing for a decision by January 1, 2013 so they can then change their focus to the alignment design for the overhead power lines coming into the substation. Until the final substation site is determined, RMP has indicated that they cannot start on the overhead power line alignment design.

October 11 Study Session – The study session with City Council was the first opportunity for staff to discuss the layout and cost of each site. RMP had supplied this information just a couple of weeks before the meeting.

October 15 Stakeholder Meeting – Staff and RMP representatives prepared a presentation to stakeholders immediately surrounding the proposed 1555 Lower Iron Horse Substation. The question and answer discussion focused on the two sites and the advantages and disadvantages of each site.

October 23 Community Meeting – The community meeting was held in an open house format with a total of five stations providing a varying amount of information. The five stations included:

- 1. Why there is consideration for both sites,
- 2. Expansion of the existing substation,
- 3. Relocation of the substation to 1555 Lower Iron Horse Drive,
- 4. Other valuable information including EMF data and an estimate of construction costs,
- 5. A sign-in and comment card station.

Numerous comment cards were received back from attendees and are attached to this staff report.

Analysis:

The following analysis provides summary information with numerous exhibits to tell the full story.

Why should the City Consider Moving the Substation?

The reasons for considering the relocation of the substation include:

- The City's Planning Department completed the Bonanza Park Area Plan in January 2012,
- The Plan recommends the creation of a mixed-use (e.g. commercial and residential uses) neighborhood for this area,
- The current substation is in the heart of the Bonanza Park Area Plan and impacts past and future decisions for this Area Plan,

• This is the most opportune time to consider moving the substation. When expanded/relocated, the new substation will have a life of up to 100 years. If after the substation is expanded and then there is a decision to move it, the cost would significantly increase.

Site Layout of Proposed and Existing

Included in the exhibits are the site layouts and renderings for both the 1555 Lower Iron Horse Drive site and the existing site. The exhibits include:

- 1555 Lower Iron Horse Drive Site
 - Site plan of substation site,
 - o Existing view looking north on Bonanza Drive,
 - o Rendered view looking north on Bonanza Drive,
 - Existing view looking north from Fireside parking lot, and
 - Rendered view looking north from Fireside parking lot,
- Existing Site
 - Site plan of substation site,
 - Existing view looking south from Munchkin Drive,
 - Rendering view looking south from Munchkin Drive,

RMP has recently confirmed that the modified layout of the 1555 Lower Iron Horse Drive will work, which will allow for the access drive for the Iron Horse apartments to be located to the north of the substation. In the development of this substation site, staff identified four possible alignments for the access road around the substation and servicing the Iron Horse apartments. These alignments will be shown during the work session meeting but their order of preference is as follows:

- 1. Aligning the road between Silver Creek and the proposed substation with egress either at the original Lower Iron Horse Drive location or at the Upper Iron Horse Drive location,
- 2. Aligning the road between the hillside and the proposed substation with egress either at the original Lower Iron Horse Drive location or at the Upper Iron Horse Drive location,
- 3. Aligning the road between Silver Creek and the proposed substation with egress near the intersection of the Rail Trail and Bonanza Drive, and
- 4. Construct a bridge across Silver Creek and the Rail Trail. The bridge's approximate location would be just east of the Iron Horse apartments and would land in the Prospector Square just west of Lot G.

Because of the technical nature of this project, staff has hired Steve Nash with ICPE to assist the city in reviewing the technical and cost information provided by RMP. Because they have just been hired, they are busy getting up to speed on the project but will be available during the work session meeting to help clarify issues for Council

Positives and Negatives of the Expansion/Relocation

During the December 1, 2011 work session meeting with Council, staff provided a list of positive and negatives for both the expansion in the current location and for relocation to 1555 Lower Iron Horse Drive. This list is included below for Council's reference.

RC	OCKY MOUNTAIN POWER'S SUBSTATION LOC	ATION
IMPACTS FOR 1555 LOWER IRON HORSE DRIVE	POSITIVES	NEGATIVES
The property at 1555 Lower Iron Horse Drive is currently a fueling station and laundry facility.	The substation will significantly decrease traffic in the area.	Higher structures located in the substation will need to be mitigated.
	Without traffic & other outdoor uses, the noise levels will significantly reduce.	The traditional walking shortcuts used by the neighborhood would be lost to the substation.
	Substation would have a minimum amount of light, thus helping to meet our night sky ordinance.	Aeries subdivision, Iron Horse Condos and Fireside Condos will see the substation facility if not properly screened and landscaped.
	EMF Issue - This substation location could have a larger buffer from existing resident.	Economic justice issues related to lower income housing that could be impacted.
	This site would not locate the substation in a view corridor.	The potential public costs to the City if the relocation plan is more expensive.
	Because of the potential to shorten the length of transmission lines into the substation, the opportunity to bury more power lines appears to be greater.	Development of an alternative access road to the apartment complex would be required.
	A good wall/fencing/screening system could hide the substation at ground level.	The large fenced or walled substation may be susceptible to vandalism such as graffiti.
		The substation will create a different sense of place in the immediate location of the property.

RC	OCKY MOUNTAIN POWER'S SUBSTATION LOC	ATION
IMPACTS FOR EXISTING SUBSTATION SITE	POSITIVES	NEGATIVES
The existing substation location is currently in the heart of the future BoPa redevelopment	Without traffic and other outdoor uses on the property, the noise levels will significantly reduce.	Higher structures will be located in the substation, which will be potentially visible throughout the BoPa re-development.
	The substation would have a minimum amount of light and thus assist in meeting our night sky ordinance.	EMF Issue - It is highly likely that residents will be increasingly closer in this location as the re-development attempts to maximize footprint usage and thus reduce the buffer area around the substation.
	A good wall/fencing/screening system could hide the substation at ground level.	The existing substation is in a view corridor.
		Expansion of the existing substation location would be right in the heart of the BoPa re- development and thus not allowing the re- development to reach its full potential.

RC	OCKY MOUNTAIN POWER'S SUBSTATION LOC	ATION
IMPACTS TO CITY	POSITIVES	NEGATIVES
Is this a positive or negative deal for Park City to move the substation?	Minimal costs for expansion at existing location for RMP.	Cost to move existing substation to 1555 Lower Iron Horse location.
	Opens up BoPa for opportunities with relocation to 1555 Lower Iron Horse location.	BoPa Area Plan would have to be revisited with expansion at existing location.
	Contaminated soil cost at existing location for RMP.	Additional distribution lines may be required.
	Power lines into 1555 Lower Iron Horse can remain overhead while power lines out may be buried.	Cost to bury overhead power lines will be greater at existing location.
	Less transmission poles and lines may be installed by RMP at 1555 Lower Iron Horse location.	Access development required for apartment complex at 1555 Lower Iron Horse location.

RC	OCKY MOUNTAIN POWER'S SUBSTATION LOCA	ATION
IMPACTS TO MARK FISCHER	POSITIVES	NEGATIVES
Mark Fischer is the 3rd party involved. He offered his property at 1555 Lower Iron Horse Drive. Is this a positive deal for him?	Existing substation property adjacent to his BoPa parcel.	Contaminated soils cost at 1555 Lower Iron Horse Drive location.
	Greater potential for the existing substation property adjacent to his BoPa parcel.	Loss of revenue from 1555 Lower Iron Horse Drive if this location is used.
	Clear his property in the BoPa area of power poles and lines.	

Property Ownership Adjacent to 1555 Lower Iron Horse Drive

The properties with ownership surrounding the proposed location at 1555 Lower Iron Horse Drive (Ironhorse Industrial) include:

- Rail Trail (Park City Municipal Corporation)
- Iron Horse Park (Iron Horse Apartments),
- Iron Horse Condominiums (individually owned),
- Fireside Condominiums (individually owned),
- Ironhorse Park Commercial Subdivision (Wintzer-Wolfe Properties), and
- Bonanza Place (Mark Fischer is now owner).

One issue that is being worked through between the Iron Horse Apartments owner and 1555 Lower Iron Horse owner is the ownership of a section of Lower Iron Horse Drive. The most recently recorded plats show the road to be an easement across the Ironhorse Industrial Subdivision while the owners of Iron Horse Apartments indicate that they own the road.

Economic Impacts

While a detailed analysis of the existing site's development potential has not been completed, a quick-back-of-the-napkin analysis indicates the .83 acre lot that the current substation sits upon could house approximately 144,000 SF of development based upon the proposed Bonanza Park Area Plan. Assuming the building contained the following uses and layout, one could anticipate annual property (real estate) and sales taxes generated to be approximately \$913,000 per year (\$220,000 for Park City specifically):

	% of Bldng	SF	\$ / SF (sale)	Actual	Assessed
Retail	20%	28,800	175	5,040,000	5,040,000
Office	20%	28,800	175	5,040,000	5,040,000
Residential (Affordable)	20%	28,800	200	5,760,000	3,168,000
Residential (Primary)	30%	43,200	325	14,040,000	7,722,000
Residential (Second Home)	10%	14,400	500	7,200,000	7,200,000
		144,325		37,080,000	28,170,000
		Pro	operty (Real Estate)	Taxes	
		DC Chara			
Area Real Estate Tax Rate	0.009546	PC Share 0.001431			
PCMC, School District, Summit County		0.001451		Total	PC Share
PC Fire, Weber Basin, and Mosquito Abatemen		Estimated An	uual RE Taxes	\$268,911	\$40,311
rerne, neber basin, and mosquito rusatemen		Local de la contra		\$200,511	010/011
			Sales Taxes		
Commercial - Retail SF	28,800				
Estimated \$ / SF per Design Workshop Study	250				
Utah General Sales Tax	0.047				
Summit County Options Sales Tax	0.0047				
Summit County Options Sales Tax Summit - Recreation, Arts, and Parks Tax	0.0025				
Summit - Restaurant Tax	0.001				
Summit - Motor Vehicle Rental Tax (NA)	0.025				
Summit - Transient Room Tax (NA)	0.03	PC Share			
Resort Sales Tax Rate (2012+)	0.016				
Local Option Sales Tax	0.01				
Mass Transit Tax	0.003	0.003			
				Total	PC Share
		Estimated Ani	nual Sale Taxes	<u>\$644,400</u>	<u>\$180,000</u>
			Total Taxes		
				Total	PC Share
		Total Annual 1	Faxes Estimated	\$913,311	\$220,311

Note that this is a very rough analysis; however it is indicative of the loss of revenue that would occur if the substation remained in its current location. In addition to this direct loss of revenue, the negative externalities of the substation in its current location include eliminating development opportunities surrounding it. One could conclude that no restaurants (high dollar revenue generators at \$400/SF) would locate directly surrounding the substation. It is highly unlikely that any development would take place directly adjacent to or across the street from the substation with the exception of possible storage, archival, similar spaces that would not require windows/views out toward the facility. Assuming this area was the length of the two sides of the substation boundary (the other side is the proposed park per the Bonanza Park Area Plan where development is not proposed), this would equate to

approximately 620 linear feet and assume a depth (or setback) of 35 feet for lost development opportunities. This would equate to an area that is approximately a half acre in size. Using the same back-of-the-napkin analysis noted above, this would equate to an additional \$132,000 in lost property and sales tax revenues (annually) for the City. The total lost revenue for the City (for the RMP site and the area immediately surrounding the site) would be approximately \$352,000 annually. This does not take into consideration additional losses that cannot be predicted; such as an estimate of the overall impacts to the Bonanza Park area given that the substation maintains an "industrial" look and feel. Many new developments may stay away from this overall area as they look at location, location, location challenges.

In addition to the economic/revenue losses for the City are the qualitative losses for the City in terms of aesthetics, streetscape, and park layout/design. The proposed Bonanza Park Area Plan envisions this area as one of lively streets, an open park area, mixed use development opportunities, etc. If the substation remained, the impact on the streetscape would be severe; likely to the point of severely decreasing walkability on the streets surrounding it. In addition, the aesthetics of the area would be severely compromised as the views of the substation from future buildings as well as the park would be undesirable. There are no hillside slopes or natural buffers to mitigate these views in its current location. Ultimately, the substation at its existing location would compromise the entire Bonanza Park Area Plan; the proposed park/open space would have to be relocated, building setbacks would have to be altered, and the proposed mix of uses would be reduced for the area surrounding the substation.

Previous Move of the Substation from Lower Main Street

On December 15, 1983, Park City Municipal Corporation entered into an agreement with Utah Power and Light (currently RMP) to move the electrical substation from its location near Park Avenue and the Depot to its current location. One consideration of the agreement was that Utah Power and Light abandon its plans to relocate the electrical substation to a location near the intersection of SR-224 and Holiday Ranch Loop Road. In recent meetings with RMP, they have indicated that Park City initiated the move, but the May 19, 1983 City Council meeting minutes do not shed more light on the issue. Information found does not indicate why the substation was moved.

Electric and Magnetic Fields

During the October 23 Community Meeting, the fourth information station had a discussion item concerning the effects of electric and magnetic fields (EMF) created by power lines. Margaret Oler, from RMP, staffed the station and provided information to those attending the meeting. The board provided at the meeting is attached in the exhibits. The following information was provided on the board:

"What have scientists concluded about EMF and health?

Respected scientific organizations have not concluded that EMF is known to cause any disease. Neither have these organizations proposed any exposure limits nor required new measures to reduce EMF exposures in community settings. These conclusions are the results of more than 30 years of extensive studies conducted by large groups of scientists in numerous national and international organizations. These organizations include:

- U.S. National Institute of Environmental Health Sciences
- National Academy of Sciences
- International Agency for Research on Cancer
- Health Council of the Netherlands"

Buried versus overhead

Throughout the discussions concerning the substation, buried power lines versus overhead power lines has been for the most part, set to the side. This section discusses this issue and attempts to put a very approximate cost to this alternative. There four sections of power lines to be evaluated; transmission power into and out of 1555 Lower Iron Horse Drive site and transmission power into and out of the existing substation site. Included in the exhibits is a map showing the two potential routes into and out of the proposed 1555 Lower Iron Horse Drive site and the transmission lines into and out of the existing site.

1555 Lower Iron Horse Drive Substation Site

- The transmission line into this site will be moved to the east of Bonanza Drive. With this overhead transmission line outside of the BoPa area, it is staff's recommendation that this line remains overhead.
- The transmission line out of this site could be buried because it does cross through the BoPa area. It is approximately 1,057 feet from this proposed substation site across Bonanza Drive and then north to SR-248. RMP is estimating the cost to bury transmission lines at a minimum of \$8,000,000 per mile. The estimate to bury this section of transmission line is \$1,601,500.

Existing Substation Site

- The transmission line into this site will remain to the west of Bonanza Drive. It is recommended that the transmission line be buried starting at the intersection of Iron Horse Drive and Bonanza Drive and ending at the existing substation. It is approximately 1,048 feet from this intersection to the existing substation. At \$8,000,000 per mile, the estimate to bury this section of transmission line is \$1,587,900.
- The transmission line out of this site could be buried because it does cross through the BoPa area. It is approximately 1,100 feet from the existing substation site and then north to SR-248. At \$8,000,000 per mile, the estimate to bury this section of transmission line is \$1,666,700.

Cost Discussion

Included in the exhibits is the comparison cost estimate for the expansion/relocation of the substation. These numbers have been provided by Rocky Mountain Power and have not yet been reviewed by our consultant. The bottom line cost from the spreadsheet is summarized below along with other potential costs of the project that need to be acknowledged:

	Expansion at Existing Site	Relocation to 1555 Lower Iron Horse site (Power lines west of Bonanza)	Relocation to 1555 Lower Iron Horse site (Power Lines east of Bonanza)
Cost to expand/relocate substation	\$0	\$2,553,456	\$3,770,056
Cost to move road, utilities, construct retaining walls	\$0	\$865,000	\$865,000
Total Cost to either expand or relocate Substation	\$0	\$3,418,456	\$4,635,056
Bury transmission lines out of 1555 Lower Iron Horse site	\$0	\$1,601,500	\$1,601,500
Bury transmission lines into existing site	\$1,587,900	\$0	\$0
Bury transmission lines out of existing site	\$1,666,700	\$0	\$0
Option 1			
Cost with all overhead transmission lines	\$0	\$3,418,456	\$4,635,056
Cost with buried transmission lines	\$3,254,600	\$5,019,956	\$6,236,556
Option 2			
If land costs do not materialize for each option	-\$0	-\$150,000	-\$954,600
Cost with all	\$0	\$3,268,456	\$3,680,456

overhead transmission lines			
Cost with buried transmission lines	\$3,254,600	\$4,869,956	\$5,281,956
Option 3			
If construction costs paid upfront	-\$0	-\$82,765	-\$111,963
Cost with all overhead transmission lines	\$0	\$3,335,691	\$4,523,093
Cost with buried transmission lines	\$3,254,600	\$4,936,191	\$6,124,593
Option 4			
If land costs do not materialize and construction costs paid up front	-\$0	-\$232,765	-\$1,066,563
Cost with all overhead transmission lines	\$0	\$3,185,691	\$3,568,493
Cost with buried transmission lines	\$3,254,600	\$4,787,191	\$5,169,993

Funding for this project has not been currently identified. Preliminary discussions with RMP about funding options offered by the utility revealed that they do not provide any programs that help municipalities to finance projects. Staff recognizes that funding strategies for this project will need to be a key item for discussion.

Next Steps

RMP needs a decision to be made by January 1, 2013 so they can maintain their schedule. Once a decision is made to expand/relocate the substation RMP next two steps will be:

- RMP will submit an application for a CUP, which will go before the Planning Commission; and
- RMP would then turn their focus on the overhead power lines alignment and pole location.

Staff's Recommendation

Staff is requesting council discussion and direction on the following issues/questions:

• What additional information does Council need? (Staff is already planning on returning to Council with a detailed discussion of costs, once our consultant has had an opportunity to do that analysis.)

- Does Council support the relocation of the substation?
- Under what conditions would Council support the relocation?

Department Review:

This report has been reviewed by City Manager, Planning, Sustainability and Legal. All comments have been integrated into this report.

Significant Impacts

	World Class Multi- Seasonal Resort Destination	Preserving & Enhancing the Natural Environment	An Inclusive Community of Diverse Economic & Cultural Opportunities	Responsive, Cutting- Edge & Effective Government
	(Economic Impact)	(Environmental Impact)	(Social Equity Impact)	Coronnoni
Which Desired Outcomes might the Recommended	+ Unique and diverse businesses	 Managed natural resources balancing ecosystem needs 	+ Residents live and work locally	+ Fiscally and legally sound
Action Impact?	+ Safe community that is w alkable and bike-able	 Economically and environmentally feasible soil disposal 	+ Cluster development w hile preserving open space	+ Well-maintained assets and infrastructure
	 Balance betw een tourism and local quality of life 	 Abundant preserved and publicly-accessible open space 	 Physically and socially connected neighborhoods 	
Assessment of Overall Impact on	Very Positive	Positive	Very Positive	Very Positive
Council Priority (Quality of Life Impact)	1	仓	1	1
Comments:				

The above recommendation grid is based on the substation being moved to the 1555 Lower Iron Horse Drive location. The significant impacts from moving the substation include:

- By moving the substation to a location that currently houses a fueling station and laundry facilities, the open space in in BoPa can be fully realized,
- Locating the substation near the rail trail and along Bonanza Drive will create challenges in trying to soften and/or hide the proposed facility to reduce its visual impacts to the trail users and those entering the City,

Recommendation:

This discussion is about the final location of the Park City Substation currently located in the Bonanza Park (BoPa) re-development area and proposed to be moved to the 1555 Lower Iron Horse Drive location. Staff recommends that Council discuss and provide direction to relocate the substation to 1555 Lower Iron Horse Drive or to expand the existing substation.

Exhibits – *EXHIBIT A* - Comments from October 23 community meeting *EXHIBIT B* - Map of both sites (provided by RMP)

1555 Lower Iron Horse Drive site information including:

EXHIBIT C1 - Site plan of substation site

EXHIBIT C2 - Existing view looking north on Bonanza Drive

EXHIBIT C3 - Rendered view looking north on Bonanza Drive

EXHIBIT C4 - Existing view looking north from Fireside parking lot

EXHIBIT C5 - Rendered view looking north from Fireside parking lot

Existing site information including:

EXHIBIT D1 - Site plan of substation site

EXHIBIT D2 - Existing view looking south from Munchkin Drive

EXHIBIT D3 - Rendering view looking south from Munchkin Drive

EXHIBIT E - Map of Power Line Routes (provided by RMP)

EXHIBIT F - EMF Discussion Panel (provided by RMP)

EXHIBIT G - Rocky Mountain Power cost evaluation (provided by RMP)

	TUESDAY, OCTOBER 23, 2012 EXHIBIT
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ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012

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ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012

Comments, Questions, Suggestions

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Your Comments, Questions, & Suggestions are greatly appreciated. Thank you.

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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
Comments, Questions, Suggestions	
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
AFter att seein, the I agree is this a Fron Horse much bett also am Park done will be 4 Seasons	ending the 3 meetings on this topic + extensive research done by sity staff, that relocating the power substation communities best option. The new entire site shields the power station or than at its convent location. I excited to see the redevoloped Boranza to its fullest potential. That development injoyed to by visitors and locals during all
Your Com	nents, Questions, & Suggestions are greatly appreciated. Thank you.
	Optional Name: Matt Kelly Email or Phone: matte transaction expertise. com PARK CITY Neighborhood: Park meadow

	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
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	Optional Name: hawah hawits
	Email or Phone: 1/20/2015 20 yahoo.com
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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Your Com	ments, Questions, & Suggestions are greatly appreciated. Thank you. Optional Name:

	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING
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PACIFICORP	Neighborhood: <u>PARK MEADOU</u>

ROCKY MOUNTAIN POWER SUBSTATION
COMMUNITY MEETING
TUESDAY, OCTOBER 23, 2012

Comments, Questions, Suggestions

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Your Comments, Questions, & Suggestions are greatly appreciated. Thank you.

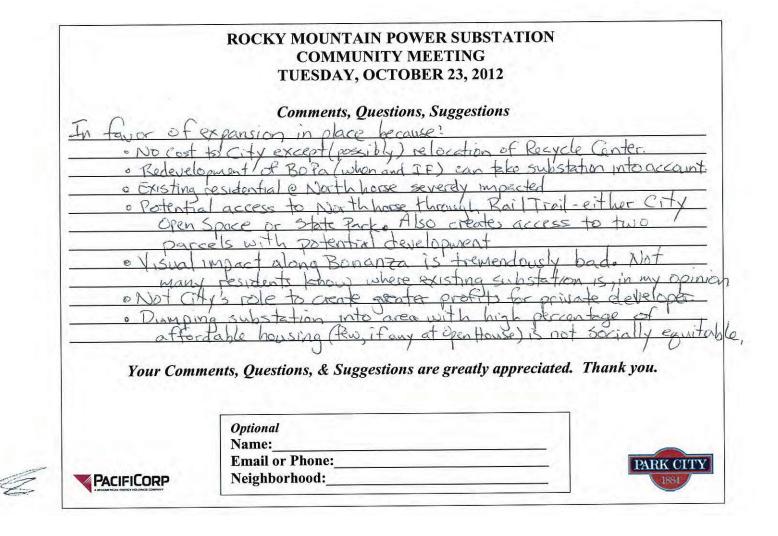
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	Comments, Questions, Suggestions
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	Optional Name: Michael Lynch Email or Phone:

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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ATTON & COMMUNICATION IS KEY IN REASSORING THAT NS & RUALITY OF LIFE WILL BE ADDLESS ments, Questions, & Suggestions are greatly appreciated. Thank you.
	K YOU FOR THIS COMMONITY MEETIN
	Optional Name: Email or Phone: Neighborhood:

	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING
	TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
As pro	perty manager of Suncreek Condos, 1885 Prospector
Ave., o	und as an owner of a condo at Suncreek, and and on
the be	half of the Suncreek Condos HoA and it's board, I
1.1	strongly disapprove of any re-location of the substatio
SUNCARD	in condos and lot G to provide ingress/egress for the
Ticolalarre	e endor relidents/guests. This is entirely too much
addition	al vehicle traffic divested onto Prospector Ave (a side street is already heavily to prospector Ave (a side street
Vour Com	ments, Questions, & Suggestions are greatly appreciated. Thank you.
Ioni Com	
	Optional Name: Scott Sherwood / Wasatch Mtn Properties
	Email or Phone:435-659-8362PARK CITYNeighborhood:Prospector2

	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
haure -	the Power Plant. Bonanza Park Be All that it can be.
Your Comn	nents, Questions, & Suggestions are greatly appreciated. Thank you.
Your Comn	nents, Questions, & Suggestions are greatly appreciated. Thank you.

ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012

121	Comments, Questions, Suggestions	11.4
+ I would love	to see the power station move on, Having a proper downtown	
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	Neighborhood:	

	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING
	TUESDAY, OCTOBER 23, 2012
	Comments, Questions, Suggestions
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012	
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING
	TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012	
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
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ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012

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	1 other open? (operivation? Renewable? 1)d d significantly note for a project that forward (sustainability) versus die same do nents, Questions, & Suggestions are greatly appreciated. Thank you.
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	ROCKY MOUNTAIN POWER SUBSTATION COMMUNITY MEETING TUESDAY, OCTOBER 23, 2012
lecisions m this? undo out what ab ron Horse	Comments, Questions, Suggestions just be made rapidly - How would know pay for proposed seems to be prohibitatively expensive - and the EMF ramifications for the lower neighborhood?
nobrobly m	Dia-year construction project affect Bonanz
Verre Com	manky ou)
Your Com	nents, Questions, & Suggestions are greatly appreciated. Thank you.

EXHIBIT B



IRON HORSE / PARK CITY SUBSTATIONS







DATE: 9/19/2012 TIME: 05:45 PM CAMERA LENS LENGTH: 50mm. VIEW LOOKING: East

IRON HORSE SUBSTATION





DATE: 9/19/2012 TIME: 05:45 PM CAMERA LENS LENGTH: 50mm. VIEW LOOKING: East

IRON HORSE SUBSTATION



KOP 2

DATE: 9/19/2012 TIME: 10:23 AM CAMERA LENS LENGTH: 28mm. VIEW LOOKING: North

IRON HORSE SUBSTATION



KOP 2

DATE: 9/19/2012 TIME: 10:23 AM CAMERA LENS LENGTH: 28mm. VIEW LOOKING: North

IRON HORSE SUBSTATION

D POWER

PACIFICORP

EXHIBIT D1

FUTURE SITE PLAN OF EXISTING SUBSTATION SITE





Existing RMP Substation Location

EXHIBIT D2

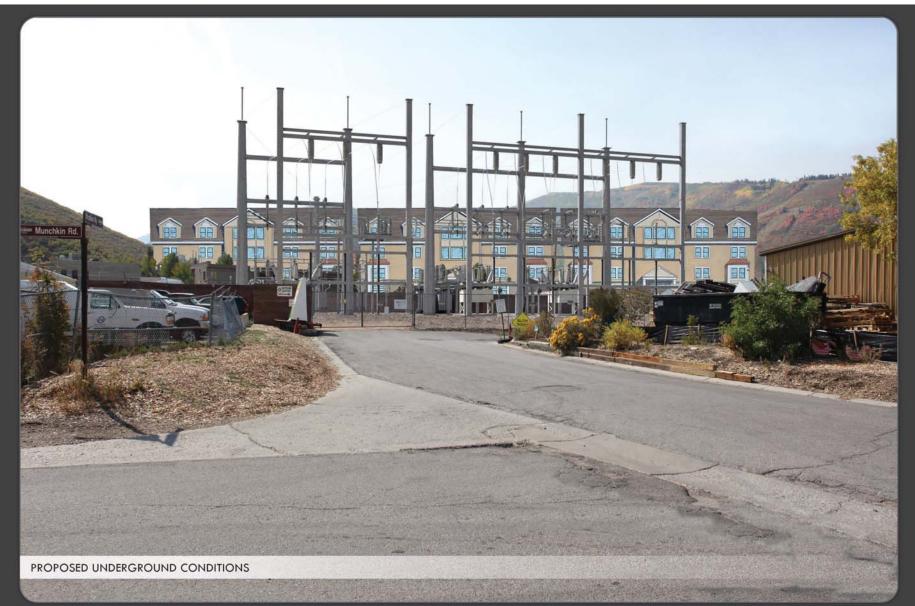




DATE: 9/20/2012 TIME: 11:53 AM CAMERA LENS LENGTH: 28mm. VIEW LOOKING: South

PARK CITY SUBSTATION

EXHIBIT D3





DATE: 9/20/2012 TIME: 11:53 AM CAMERA LENS LENGTH: 28mm. VIEW LOOKING: South

PARK CITY SUBSTATION

POWER ENGINEERS PACIFICORP

Park City Substation Options (with transmission line routes)

EXHIBIT E

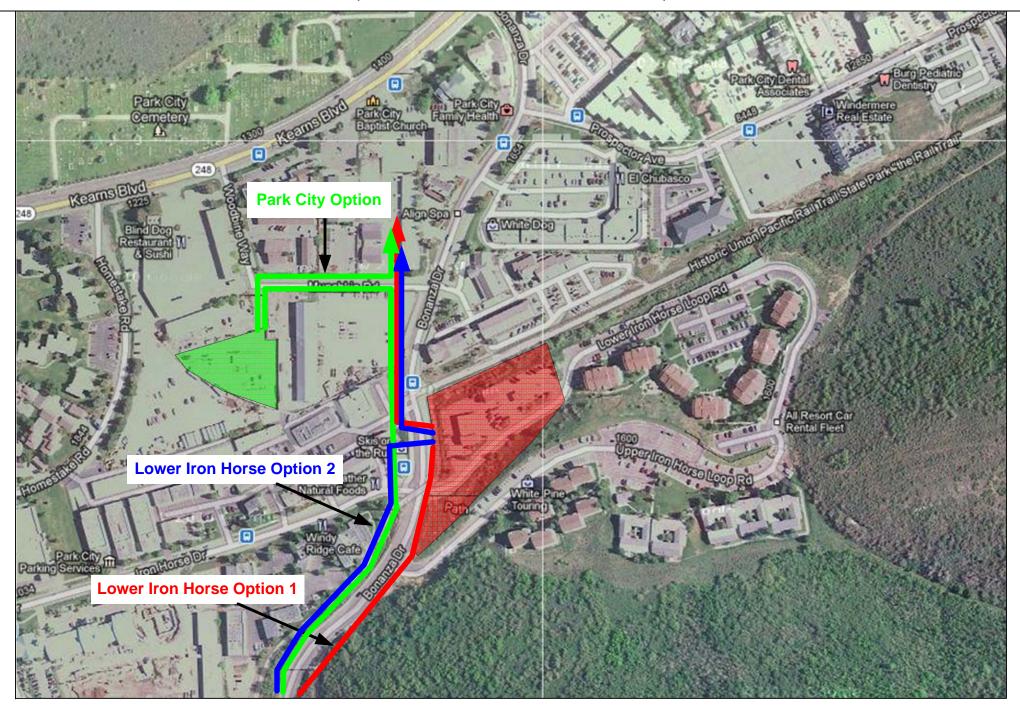
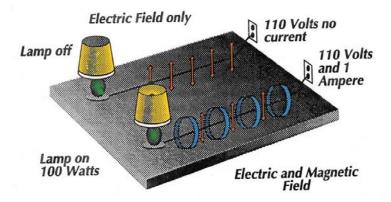


EXHIBIT F

Electric and Magnetic Fields

How are they produced?

Electric fields are created by voltage and are found near any electrical device that is plugged into an electrical outlet. For example, plugging an appliance (lamp, hair dryer) into an electrical wall outlet applies voltage to the cord, which is then surrounded by an electric field. Electric fields are stongest closest to the source.



Magnetic fields are created by flowing current and are found near the cord and electrical device (appliance) plugged in and operating. For example, turning on the appliance creates a flow of current that causes a magnetic field. Magnetic fields are greater for appliances that draw more current. Magnetic strength decreases rapidly as you move away from the source.

What are typical fields?

The strength of the field depends on the amount of current flowing through the electrical device and the voltage level. Fields are strongest immediately surrounding an electric wire or device. Field levels rapidly weaken as you move farther from the source. Electric fields are measured in units of volts per meter, while magnetic fields are measured in gauss or milligauss (1/1,000 gauss).

Electrical Device	1.2 inches away	12 inches away	39 inches away
Microwave oven	750 to 2,000	40 to 80	3 to 8
Clothes washer	8 to 400	2 to 30	0.1 to 2
Electric range	60 to 2,000	4 to 40	0.1 to 1
Fluorescent lamp	400 to 4,000	5 to 20	0.1 to 3
Hair dryer	60 to 20,000	1 to 70	0.1 to 3
Television	25 to 500	0.4 to 20	0.1 to 2

SOURCE: Adapted from Gauger 1985 NOTE: Measurements are in milligauss

Typical values of fields around distribution and transmission lines

	Distribution lines	1 to 80 milligauss under the line				
	Transmission lines	1 to 300 milligauss edge of right-of-way				
	NOTE: Maximum values may be lower for some utilities					

What have scientists concluded about EMF and health?

Respected scientific organizations have *not* concluded that EMF is known to cause any disease. Neither have these organizations proposed any exposure limits nor required new measures to reduce EMF exposures in community settings.

These conclusions are the results of more than 30 years of extensive studies conducted by large groups of scientists in numerous national and international organizations. These organizations include:

- U.S. National Institute of Environmental Health Sciences
- National Academy of Sciences
- International Agency for Research on Cancer
- Health Council of the Netherlands



GATEWAY SOUTH TRANSMISSION PROJECT

EXHIBIT G

Park City Substation Relocation Cost Evaluation

Rocky Mountain Power Cost Evaluation

DRAFT v10.05.2012	Park City Conversion	Lower Iron Horse (East Route)	Variance to Park City (East Route)	Lower Iron Horse (West Route)	Variance to Park City (West Route)		
	RMP Costs	RMP Costs	RMP Costs	RMP Costs	RMP Costs	Numbers Provided By	Variability Driver
1 Substation Material	\$2,451,421	\$3,294,208	\$842,787	\$3,126,209	\$674,788	RMP	
2 Substation Equipment not transformer) 3 Transformers 4 Equipment Salvage*** 5 Transmission Cost	\$486,991 \$1,692,430 -\$8,000 \$280,000	\$1,443,778 \$1,692,430 -\$10,000 \$168,000	\$956,787 -\$2,000 -\$112,000	\$1,443,779 \$1,692,430 -\$10,000 \$0	\$956,788 -\$2,000 -\$280,000	RMP RMP RMP RMP	Commodity Price Transformer Market Salvage Value Commodity Price
Labor (Engineering, Project Management, Internal 6 Crews)	\$450,924	\$596,714	\$145,790	\$558,806	\$107,882	RMP	Labor Rate
7 Contract Labor	\$3,422,297	\$4,045,698	\$623,401	\$3,882,210	\$459,913	RMP	Labor Rate
8 Distribution (Material, Labor, Construction)		\$1,077,165	\$1,077,165	\$1,077,165	\$1,077,165	RMP	Commodity Price / Labor Rate
9 Land Acquisition	\$350,000	\$500,000	\$150,000	\$500,000	\$150,000	RMP/Park City	
(1) Park City Substation Property (0.838 Acres @ \$30/sq ft. = \$1,095,090) Cost to Vacate Existing Property and Remove Equipment		\$500,000	\$500,000	\$500,000	\$500,000	RMP	Land Value Disposal Cost / Labor Rate
12 Cost to remove equipment and stay at Park City. 13 (2) Lower Iron Horse Property * Land Value Difference from Park City (2.06 Acres @ \$15/sq ft. = \$1,346,000)	\$350,000	\$0	-\$350,000	\$0	-\$350,000	RMP	Land Value
14 Construction Overhead	\$792,867	\$919,180	\$126,313	\$876,575	\$83,708	RMP	
15 AFUDC (Interest During Construction)	\$516,916	\$628,879	\$111,963	\$599,681	\$82,765		•
16 Transmission ROW (Substation Interconnect Only)	\$0	\$804,600	\$804,600	\$0		RMP	Land Value
17 Sub Totals 18 Actual Excess Cost for Relocating Substation Actual Excess Cost for Relocating Substation if Paid	\$7,467,509	\$11,237,565	\$3,770,056	\$10,020,965	\$2,553,456		
19 Upfront (~7% Cost Savings)			\$3,506,152		\$2,374,714		

* Park City/Mr. Fischer will be providing the Lower Iron Horse property + bank owned property as one parcel to RMP. The site is expected to be at grade, existing structures removed and the existing road relocated. The company will vacate the existing Park City Substation upon completion. Park City will be responsible for the cost difference between the Park City substation site and the Lower Iron Horse property.

 $\ast\ast$ The site is expected to disturb 2777 cubic yards.

*** Transformers and distribution breakers will be kept as spare inventory. The remaining equipment will be salvaged. Current market price for scrap steel is \$200 a gross ton.

**** These costs do not reflect any costs associated with a block wall or landscaping at either site.

Draft – The figures represented are very high level estimates only and are strictly for discussion purposes only.