

From:



To:

Sent: 12/1/2020 12:00:39 PM

Subject: RE: System Hardening Projects for Filsinger Visit December 14-16

What would you like here? "Auburn/Grass Valley" is a pretty gigantic area.

Auburn is served by Auburn and Placer subs. The highest ranking zone is Placer 1103 LR 284874 which is #745 on the list which puts it in the 9000th mile. The rest score much lower

feeder_name	device_operating_number	primary_length_m	primary_length_m_hftd_23
PLACER 1103	284874	7928.042267	3450.770959 2.14466

Grass Valley is primarily served by Brunswick, which according to an old tracker of mine had ~127 miles that we put together to be hardened. The MAVF score on the highest zone on any Brunswick circuit is 715.

feeder_name	device_operating_number	primary_length_m	primary_length_m_hftd_23
BRUNSWICK 1106	2790	17696.04197	16028.20283
BRUNSWICK 1104	2112	31201.90164	31201.90164
BRUNSWICK 1106	7099	12439.43872	12439.43872

The area in between Auburn and Grass Valley is primarily served by Bell & Higgins. We didn't have any hardening jobs, but we did have one wire down job on Higgins that we converted to 08W accounting for about 3500 feet. The MAVF score on many Bell/Higgins zones is higher than Auburn or Brunswick zones:

feeder_name	device_operating_number	primary_length_m	primary_length_m_hftd_23
BELL 1108	5703	12751.57052	8525.058627 5.29835
BELL 1108	2202	53635.09318	52339.43628 32.5291
HIGGINS 1109	CB	37179.85472	36440.09888 22.6476
HIGGINS 1109	50072	68212.36565	68212.36565 42.3942
BELL 1107	50172	30233.91029	28142.3136 17.4905
HIGGINS 1109	50078	77925.00155	77925.00155 48.4307
BELL 1107	2400	44680.55493	41414.83486 25.7394
BELL 1108	CB	9628.758198	0
HIGGINS 1109	594	23079.04472	23079.04472 14.3437
HIGGINS 1110	51794	6308.416651	6303.844559
BELL 1109	CB	5601.540156	484.8416387 0.30133
BELL 1110	946229	3345.193843	352.391237 0.21901
HIGGINS 1107	746082	1306.131802	1306.131802 0.81176
HIGGINS 1103	9753	3306.116589	3306.116589 2.05476
HIGGINS 1103	CB	45692.92596	45174.68385 28.0762
HIGGINS 1104	CB	18716.51105	18050.1072 11.2182

I can put together a slide for the Higgins job, but it will take a bit more time to do one for Brunswick since there is so much we did out there. I don't see much use in doing a slide for Placer/Auburn...

Let me know what you'd like me to do.

Thanks,

From: [REDACTED]
Sent: Tuesday, December 01, 2020 11:23 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: System Hardening Projects for Filsinger Visit December 14-16

[REDACTED],

Can you help me out with this? I think you know the Auburn Grass Valley area better than most of us.

From: [REDACTED]
Sent: Tuesday, December 01, 2020 11:20 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: System Hardening Projects for Filsinger Visit December 14-16
Importance: High

[REDACTED]

Thank you for this, very helpful. Filsinger also asked for a couple of projects in the in the Auburn/Grass Valley area, even if they are not in top 50 miles (let's say in top 100 miles). Could you please look into that?

Thanks,

From: [REDACTED]
Sent: Tuesday, December 01, 2020 9:44 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: RE: System Hardening Projects for Filsinger Visit December 14-16

Here is some information slides for the locations discussed yesterday.

From: [REDACTED]
Sent: Monday, November 30, 2020 8:22 AM
To: [REDACTED]
Cc: [REDACTED]
Subject: Fwd: System Hardening Projects for Filsinger Visit December 14-16

[REDACTED]

FYI.

[REDACTED] will be scheduling a call with us on this request since [REDACTED] is out.

[REDACTED]

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From: [REDACTED]
 Sent: Sunday, November 29, 2020 7:36:10 PM
 To: [REDACTED]
 Subject: System Hardening Projects for Filsinger Visit December 14-16

Filsinger will be conducting another field observation visit December 14-16 and they would like to visit one or two System Hardening project locations. These projects should be from the top 50 miles of CPZs (please see below) and should be CPZ targeted in 2021 based on the new risk model. They do understand that the actual projects are not yet scoped – they do, however, want to visit the locations to better understand the risk drivers and potential mitigations. They requested to have a Safety Specialist join them for the visit to discuss the wildlife risk drivers and potentially someone from the execution / planning team to understand the possible SH mitigations. If we already have the projected scoped and know what we'll be doing (undergrounding, OH reconducting, etc.), that's even better.

From the list below – which CPZs / locations would you recommend for inclusion in the visit? We need a couple of projects and a back-up options (there are definitely weather / altitude considerations, so ideally we want projects back-up options in the lower altitude / interim zones). In addition to these projects, they will be visiting the Calistoga substation for the demo of the Rapid Earth Fault Current – they mentioned that there 2020-2021 projects in the Fitch Mountain area or fire impacted areas that they also visit while in that area.

Thanks!
 [REDACTED]

Protection Zone Name	Miles	Cumulative Miles	Mean MAVF Score	Total CPZ Mavf	% total risk reduced (62%)
OREGON TRAIL 1103CUS391	0.02	0.02	3.16	3.16	0.01%
CALPINE 1144276-G	0.01	0.03	1.88	1.88	0.01%
MARIPOSA 210190130	0.08	0.12	1.69	1.69	0.02%
SHEPHERD 2111688294	0.01	0.13	1.44	1.44	0.02%
MIDDLETOWN 1103CB	0.05	0.18	1.30	5.20	0.03%
UPPER LAKE 1101CB	1.00	1.17	1.26	3.77	0.04%
KESWICK 11011586	6.66	7.83	1.25	48.84	0.17%
MIDDLETOWN 1102302610	4.21	12.04	0.92	48.56	0.29%
KONOCTI 1102965078	5.61	17.65	0.88	51.70	0.42%
MARIPOSA 2102241564	0.64	18.29	0.77	10.81	0.44%
BUCKS CREEK 1101CB	4.29	22.58	0.73	9.55	0.47%
DEL MAR 2109378446	0.09	22.67	0.73	2.19	0.47%
MIDDLETOWN 1102CB	0.42	23.08	0.72	8.70	0.49%
MIDDLETOWN 1103830	24.80	47.88	0.72	151.83	0.87%