

point_id	site_id	digital_datetime	digital_milliseconds	digital_state	state_desc	state_zero
4552	MC	9/8/20 12:35	0	4	Event is 1	TRIPPED
4551	MC	9/8/20 12:35	0	4	Event is 1	TRIPPED
4553	MC	9/8/20 12:35	0	3	Event is 0	TRIPPED
4553	MC	9/7/20 17:41	0	5	Event 0	TRIPPED
4552	MC	9/7/20 12:35	0	4	Event is 1	TRIPPED
4551	MC	9/7/20 12:35	0	4	Event is 1	TRIPPED
4553	MC	9/7/20 12:35	0	4	Event is 1	TRIPPED
4552	MC	9/6/20 12:35	0	4	Event is 1	TRIPPED
4551	MC	9/6/20 12:35	0	4	Event is 1	TRIPPED
4553	MC	9/6/20 12:35	0	4	Event is 1	TRIPPED
4552	MC	9/5/20 12:35	0	4	Event is 1	TRIPPED
4551	MC	9/5/20 12:35	0	4	Event is 1	TRIPPED
4553	MC	9/5/20 12:35	0	4	Event is 1	TRIPPED

state_one	event
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED

substation	description	date_added	nominal_voltage	device_type	digital_id	id_desc
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT A	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT I	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT A	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT I	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	1000	11/14/02 0:00	115	DSC	STTS	STTS
CARMEN_S	1000 TO COUC	11/14/02 0:00	115	LSD	STTS	STTS
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	1000 COUGAR	9/7/97 0:00	115	PCB	_STT	_STT
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1014	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1012	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1018	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1000 COUGAR	11/14/19 0:00	115	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1003 XF2	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1001 XF1	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	1000 TO COUC	11/14/02 0:00	115	LSD	STTS	STTS
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1000 COUGAR	9/7/97 0:00	115	PCB	_STT	_STT
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1000 COUGAR	11/14/19 0:00	115	PCB	STTS	STTS

CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT A	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT F	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT F	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT A	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	1000	11/14/02 0:00	115	DSC	STTS	STTS
CARMEN_S	1000 TO COUG	11/14/02 0:00	115	LSD	STTS	STTS
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT C	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	1000 COUGAR	9/7/97 0:00	115	PCB	_STT	_STT
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1014	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1012	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1018	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1000 COUGAR	11/14/19 0:00	115	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1003 XF2	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1001 XF1	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	PSC 115KV CSN	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	115KV CSMT N	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT A	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN

CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	115KV CSMT	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	1000	11/14/02 0:00	115	DSC	STTS	STTS
CARMEN_S	1000 TO COUG	11/14/02 0:00	115	LSD	STTS	STTS
CARMEN_S	115KV CSMT	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	115KV CSMT	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1000 COUGAR	9/7/97 0:00	115	PCB	_STT	_STT
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1014	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1012	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1018	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1000 COUGAR	11/14/19 0:00	115	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1003 XF2	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1001 XF1	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 12.5KV CS	10/16/19 0:00	12.5	AGC	CEQP	COMM. EC
CARMEN_S	PSC 115KV CS	10/16/19 0:00	115	AGC	CEQP	COMM. EC
CARMEN_S	115KV CSMT	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	AGC	EQPF	EQUIPMEN
CARMEN_S	115KV CSMT	10/16/19 0:00	115	AGC	EQPF	EQUIPMEN
CARMEN_S	1000	11/14/02 0:00	115	DSC	STTS	STTS
CARMEN_S	1000 TO COUG	11/14/02 0:00	115	LSD	STTS	STTS
CARMEN_S	115KV CSMT	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	115KV CSMT	10/16/19 0:00	115	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM

CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	12.5KV CSMT	10/16/19 0:00	12.5	METER	CCUT	COMM
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1000 COUGAR	9/7/97 0:00	115	PCB	_STT	_STT
CARMEN_S	1010 GEN1	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1014	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1012	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1018	6/5/01 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1010 GEN1	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	1000 COUGAR	11/14/19 0:00	115	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	12.5KV GEN 1	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING
CARMEN_S	115KV	10/16/19 0:00	115	SUBSTN	MPOT	METERING
CARMEN_S	1003 XF2	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1001 XF1	6/5/01 0:00	115	TD	STTS	STTS
CARMEN_S	1020 GEN2	6/5/01 0:00	11.5	PCB	_STT	_STT
CARMEN_S	1020 GEN2	11/14/19 0:00	11.5	PCB	STTS	STTS
CARMEN_S	12.5KV GEN 2	10/16/19 0:00	12.5	SUBSTN	MPOT	METERING

point_id	site_id	digital_datetime	digital_milliseconds	digital_state	state_desc	state_zero
176000	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
175999	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
175997	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
175998	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
175987	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
176001	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
176003	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
176002	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
176004	NULL	9/8/20 13:35	0	3	Event is 0	NORMAL
65563	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
65562	MC	9/8/20 13:35	0	3	Event is 0	TRIPPED
176005	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
176006	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
176007	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
176010	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
176008	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
176009	NULL	9/8/20 13:35	0	3	Event is 0	CUTIN
8340	MC	9/8/20 13:35	0	3	Event is 0	TRIPPED
59566	MC	9/8/20 13:35	0	3	Event is 0	TRIPPED
59564	MC	9/8/20 13:35	0	3	Event is 0	TRIPPED
59565	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
59561	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
59562	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
176355	NULL	9/8/20 13:35	0	3	Event is 0	TRIPPED
176356	NULL	9/8/20 13:35	0	3	Event is 0	TRIPPED
176354	NULL	9/8/20 13:35	0	3	Event is 0	TRIPPED
176012	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
176013	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
176011	NULL	9/8/20 13:35	0	4	Event is 1	NORMAL
59569	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
59568	MC	9/8/20 13:35	0	4	Event is 1	TRIPPED
176000	NULL	9/8/20 1:18	0	6	Event 1	NORMAL
175999	NULL	9/8/20 1:18	0	6	Event 1	NORMAL
175997	NULL	9/8/20 1:18	0	6	Event 1	NORMAL
176000	NULL	9/8/20 1:18	0	5	Event 0	NORMAL
175997	NULL	9/8/20 1:18	0	5	Event 0	NORMAL
175999	NULL	9/8/20 1:18	0	5	Event 0	NORMAL
175997	NULL	9/8/20 1:17	0	6	Event 1	NORMAL
176000	NULL	9/8/20 1:17	0	6	Event 1	NORMAL
175999	NULL	9/8/20 1:17	0	6	Event 1	NORMAL
65562	MC	9/7/20 20:38	0	5	Event 0	TRIPPED
176011	NULL	9/7/20 17:25	0	6	Event 1	NORMAL
8340	MC	9/7/20 17:25	0	5	Event 0	TRIPPED
59564	MC	9/7/20 17:25	0	5	Event 0	TRIPPED
176011	NULL	9/7/20 17:25	0	5	Event 0	NORMAL
176354	NULL	9/7/20 17:24	0	5	Event 0	TRIPPED

176355	NULL	9/7/20 17:24	0	5	Event 0	TRIPPED
176012	NULL	9/7/20 17:24	0	6	Event 1	NORMAL
176011	NULL	9/7/20 17:24	0	6	Event 1	NORMAL
175997	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
175999	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176000	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
175998	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
175987	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176001	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176002	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176003	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176004	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
65563	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
65562	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
176005	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
176007	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
176006	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
176010	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
176009	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
176008	NULL	9/7/20 13:35	0	3	Event is 0	CUTIN
8340	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59566	MC	9/7/20 13:35	0	3	Event is 0	TRIPPED
59564	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59565	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59561	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59562	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
176355	NULL	9/7/20 13:35	0	4	Event is 1	TRIPPED
176356	NULL	9/7/20 13:35	0	3	Event is 0	TRIPPED
176354	NULL	9/7/20 13:35	0	4	Event is 1	TRIPPED
176012	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
176013	NULL	9/7/20 13:35	0	4	Event is 1	NORMAL
176011	NULL	9/7/20 13:35	0	3	Event is 0	NORMAL
59569	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59568	MC	9/7/20 13:35	0	4	Event is 1	TRIPPED
59564	MC	9/7/20 10:03	0	6	Event 1	TRIPPED
176355	NULL	9/7/20 10:03	0	6	Event 1	TRIPPED
176012	NULL	9/7/20 10:02	0	5	Event 0	NORMAL
176013	NULL	9/7/20 9:57	0	6	Event 1	NORMAL
176013	NULL	9/7/20 9:55	0	5	Event 0	NORMAL
59564	MC	9/6/20 23:30	0	5	Event 0	TRIPPED
176355	NULL	9/6/20 23:30	0	5	Event 0	TRIPPED
176012	NULL	9/6/20 23:30	0	6	Event 1	NORMAL
175997	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
176000	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
175999	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
175998	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
175987	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL

176001	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
176003	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
176002	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
176004	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
65563	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
65562	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
176005	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
176006	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
176007	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
176010	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
176008	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
176009	NULL	9/6/20 13:35	0	3	Event is 0	CUTIN
59566	MC	9/6/20 13:35	0	3	Event is 0	TRIPPED
8340	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59564	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59565	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59561	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59562	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
176355	NULL	9/6/20 13:35	0	4	Event is 1	TRIPPED
176356	NULL	9/6/20 13:35	0	3	Event is 0	TRIPPED
176354	NULL	9/6/20 13:35	0	4	Event is 1	TRIPPED
176012	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
176013	NULL	9/6/20 13:35	0	4	Event is 1	NORMAL
176011	NULL	9/6/20 13:35	0	3	Event is 0	NORMAL
59569	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59568	MC	9/6/20 13:35	0	4	Event is 1	TRIPPED
59564	MC	9/6/20 12:07	0	6	Event 1	TRIPPED
176355	NULL	9/6/20 12:06	0	6	Event 1	TRIPPED
176012	NULL	9/6/20 12:06	0	5	Event 0	NORMAL
59566	MC	9/5/20 22:29	0	5	Event 0	TRIPPED
176013	NULL	9/5/20 22:29	0	6	Event 1	NORMAL
176356	NULL	9/5/20 22:29	0	5	Event 0	TRIPPED
175999	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176000	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
175997	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
175998	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
175987	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176001	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176002	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176003	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176004	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
65563	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
65562	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
176005	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN
176007	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN
176006	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN
176010	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN

176009	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN
176008	NULL	9/5/20 13:35	0	3	Event is 0	CUTIN
59566	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
8340	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
59564	MC	9/5/20 13:35	0	3	Event is 0	TRIPPED
59565	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
59561	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
59562	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
176356	NULL	9/5/20 13:35	0	4	Event is 1	TRIPPED
176355	NULL	9/5/20 13:35	0	3	Event is 0	TRIPPED
176354	NULL	9/5/20 13:35	0	4	Event is 1	TRIPPED
176013	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
176012	NULL	9/5/20 13:35	0	4	Event is 1	NORMAL
176011	NULL	9/5/20 13:35	0	3	Event is 0	NORMAL
59569	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
59568	MC	9/5/20 13:35	0	4	Event is 1	TRIPPED
59566	MC	9/5/20 13:06	0	6	Event 1	TRIPPED
176356	NULL	9/5/20 13:06	0	6	Event 1	TRIPPED
176013	NULL	9/5/20 13:05	0	5	Event 0	NORMAL

state_one	event
FAILURE	Still FAILURE
FAILURE	Still FAILURE
FAILURE	Still FAILURE
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
FAILURE	Still FAILURE
FAILURE	Still FAILURE
FAILURE	Still FAILURE
CLOSED	Still CLOSED
CLOSED	Still CLOSED
FAILURE	FAILURE
FAILURE	FAILURE
FAILURE	FAILURE
FAILURE	NORMAL
FAILURE	NORMAL
FAILURE	NORMAL
FAILURE	FAILURE
FAILURE	FAILURE
FAILURE	FAILURE
CLOSED	TRIPPED
FAILURE	FAILURE
CLOSED	TRIPPED
CLOSED	TRIPPED
FAILURE	NORMAL
CLOSED	TRIPPED

CLOSED	TRIPPED
FAILURE	FAILURE
FAILURE	FAILURE
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
FAILURE	Still NORMAL
FAILURE	Still FAILURE
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	CLOSED
CLOSED	CLOSED
FAILURE	NORMAL
FAILURE	FAILURE
FAILURE	NORMAL
CLOSED	TRIPPED
CLOSED	TRIPPED
FAILURE	FAILURE
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL

FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
FAILURE	Still NORMAL
FAILURE	Still FAILURE
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	CLOSED
CLOSED	CLOSED
FAILURE	NORMAL
CLOSED	TRIPPED
FAILURE	FAILURE
CLOSED	TRIPPED
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CUTOUT	Still CUTIN

CUTOUT	Still CUTIN
CUTOUT	Still CUTIN
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
FAILURE	Still NORMAL
FAILURE	Still FAILURE
FAILURE	Still NORMAL
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	CLOSED
CLOSED	CLOSED
FAILURE	NORMAL

substation	description	date_added	nominal_voltage	device_type	digital_id	id_desc
HOLDEN_C	7101	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7102	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7163	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7161	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7190	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7101	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7102	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7161	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7163	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS

HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7101	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7102	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7163	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7161	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7101	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7102	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	DSC	STTS	STTS
HOLDEN_C	7150	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7161	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7163	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7170	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7180	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	11/28/18 0:00	115	LSD	STTS	STTS
HOLDEN_C	7190	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7170	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7180	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7160	5/9/18 0:00	115	PCB	STTS	STTS
HOLDEN_C	7150	5/9/18 0:00	115	PCB	STTS	STTS

point_id	site_id	digital_datetime	digital_milliseconds	digital_state	state_desc	state_zero
172577	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172579	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172578	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172582	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172581	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172580	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172583	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172587	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172586	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172585	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172584	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
172588	NULL	9/8/20 19:00	0	4	Event is 1	TRIPPED
169893	MC	9/8/20 19:00	0	3	Event is 0	TRIPPED
169889	MC	9/8/20 19:00	0	3	Event is 0	TRIPPED
169890	MC	9/8/20 19:00	0	4	Event is 1	TRIPPED
169891	MC	9/8/20 19:00	0	3	Event is 0	TRIPPED
169892	MC	9/8/20 19:00	0	3	Event is 0	TRIPPED
169889	MC	9/8/20 16:27	0	5	Event 0	TRIPPED
169893	MC	9/8/20 16:27	0	5	Event 0	TRIPPED
169890	MC	9/7/20 21:08	0	6	Event 1	TRIPPED
169889	MC	9/7/20 21:08	0	6	Event 1	TRIPPED
169891	MC	9/7/20 20:26	0	5	Event 0	TRIPPED
169892	MC	9/7/20 20:25	0	5	Event 0	TRIPPED
169889	MC	9/7/20 20:07	0	5	Event 0	TRIPPED
169889	MC	9/7/20 20:03	0	6	Event 1	TRIPPED
172577	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172578	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172579	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172582	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172580	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172581	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172583	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172584	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172585	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172586	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172587	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
172588	NULL	9/7/20 19:00	0	4	Event is 1	TRIPPED
169893	MC	9/7/20 19:00	0	4	Event is 1	TRIPPED
169890	MC	9/7/20 19:00	0	3	Event is 0	TRIPPED
169889	MC	9/7/20 19:00	0	3	Event is 0	TRIPPED
169891	MC	9/7/20 19:00	0	4	Event is 1	TRIPPED
169892	MC	9/7/20 19:00	0	4	Event is 1	TRIPPED
169890	MC	9/7/20 17:55	0	5	Event 0	TRIPPED
169889	MC	9/7/20 17:55	0	5	Event 0	TRIPPED
169892	MC	9/7/20 17:25	0	6	Event 1	TRIPPED
169891	MC	9/7/20 17:25	0	6	Event 1	TRIPPED

169891	MC	9/7/20 17:25	0	5	Event 0	TRIPPED
169892	MC	9/7/20 17:25	0	5	Event 0	TRIPPED
172577	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172579	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172578	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172582	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172581	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172580	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172583	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172587	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172586	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172585	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172584	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
172588	NULL	9/6/20 19:00	0	4	Event is 1	TRIPPED
169893	MC	9/6/20 19:00	0	4	Event is 1	TRIPPED
169889	MC	9/6/20 19:00	0	4	Event is 1	TRIPPED
169890	MC	9/6/20 19:00	0	4	Event is 1	TRIPPED
169892	MC	9/6/20 19:00	0	4	Event is 1	TRIPPED
169891	MC	9/6/20 19:00	0	4	Event is 1	TRIPPED
172577	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172578	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172579	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172582	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172580	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172581	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172583	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172584	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172585	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172586	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172587	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
172588	NULL	9/5/20 19:00	0	4	Event is 1	TRIPPED
169893	MC	9/5/20 19:00	0	4	Event is 1	TRIPPED
169891	MC	9/5/20 19:00	0	4	Event is 1	TRIPPED
169892	MC	9/5/20 19:00	0	4	Event is 1	TRIPPED
169890	MC	9/5/20 19:00	0	4	Event is 1	TRIPPED
169889	MC	9/5/20 19:00	0	4	Event is 1	TRIPPED

state_one	event
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	TRIPPED
CLOSED	TRIPPED
CLOSED	CLOSED
CLOSED	CLOSED
CLOSED	TRIPPED
CLOSED	TRIPPED
CLOSED	TRIPPED
CLOSED	CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
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CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still CLOSED
CLOSED	Still CLOSED
CLOSED	TRIPPED
CLOSED	TRIPPED
CLOSED	CLOSED
CLOSED	CLOSED

substation	description	date_added	nominal_voltage	device_type	digital_id	id_desc
TRAILBRG	1030 GEN	6/5/01 0:00	11.5	PCB	STTS	STTS
TRAILBRG	1030 GEN	6/5/01 0:00	11.5	PCB	STTS	STTS
TRAILBRG	1030 GEN	6/5/01 0:00	11.5	PCB	STTS	STTS
TRAILBRG	1030 GEN	6/5/01 0:00	11.5	PCB	STTS	STTS
TRAILBRG	1030 GEN	6/5/01 0:00	11.5	PCB	STTS	STTS

point_id	site_id	digital_datetime	digital_milliseconds	digital_state	state_desc	state_zero
59567	MC	9/8/20 7:30	0	4	Event is 1	TRIPPED
59567	MC	9/7/20 19:25	0	6	Event 1	TRIPPED
59567	MC	9/7/20 7:30	0	3	Event is 0	TRIPPED
59567	MC	9/6/20 7:30	0	3	Event is 0	TRIPPED
59567	MC	9/5/20 7:30	0	3	Event is 0	TRIPPED

state_one	event
CLOSED	Still CLOSED
CLOSED	CLOSED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED
CLOSED	Still TRIPPED

COUGAR:

177406

177407 (MW)

177408

177409 (MW)

87135 (MW)

87136

87137

8337

8338

8339

8341

119290

119291

8342

107898

107899

HOLDEN CREEK:

172577

172578

172579

172580

172581

172582

172583

172584

172585

172586

172587

172588

169889

169890

169891

169892

169893

170638

170634

170635 (MW)

170639

170636

170637 (MW)

CARMEN SMITH:

175984 (MW)

175985 (MW)

175986 (MW)

176060 (MW)

176350

59518

175988

175989

175990

175991

175992

175993

176351 (MW)

53507
176352
176353 (MW)
59519
59521
176357
176358 (MW)
129421
129423
176359
176360 (MW)
129424
129426
175997
175998
176001
176002
175999
176000
175987
176003
176004
65563
65562
176005
176006
176007
176008
176009
176010
176354
8340
176355
59564
59561
59565
59562
176356
59566
176011
176012
176013
59568
59569

TRAILBRIDGE:

59567
129922
176365 (MW)
129924

BLUE RIVER:

4552
4551
4553

The following items were aggregated and submitted by Transmission Technology:

TT originally placed more of the question into our scope than we answer for with evidence. After further review of the sites and consulting with other organizations we have reduced what we can report. TO will be providing Dispatch Logs and outages for the station as opposed to TT, they have more knowledge on the data and will provide a better data pull. Additionally there is no SER (Provides data to the Control Center (CC) SEMM), FLAR, Synchrophaser, or RAS located in this area so no data is available for these systems.

Unless otherwise noted the scope of our review is Cougar, Holden Creek, Blue River, Trailbridge, and Carmen Smith sites.

Any and all documents related to Supervisory Control and Data Acquisition (SCADA) records in the one year immediately preceding and including the day of the fire for the equipment located in the area from Cougar Reservoir to the town of Leaburg, Oregon.

Site_keys.txt = This file has the unique point identifiers that pertain to the requested sites.

The following data sets are from our SCADA Masters at our Control Centers, it was pulled from our OPI system:

Format: SHIP (SCADA Historical Information Portal).(Digital or if Analog either FiveMinute or TwoSecond data points).(Station Name).(Date)

SHIP-Digital.BlueRiver.9_7_2019-9_13_2020_all_event_types.xlsx

SHIP-Digital.CarmenSmith.9_7_2019-9_13_2020_all_event_types.xlsx

SHIP-Digital.Cougar.9_7_2019-9_13_2020_all_event_types.xlsx

SHIP-Digital.HoldenCreek.9_7_2019-9_13_2020_all_event_types.xlsx

SHIP-Digital.Trailbridge.9_7_2019-9_13_2020_all_event_types.xlsx

SHIP-FiveMinute.CarmenSmith.9_7_2019 TO 9_7_2020.xlsx

SHIP-FiveMinute.CarmenSmith.9_7_2020 TO 9_13_2020.xlsx

SHIP-FiveMinute.Cougar.9_7_2019 TO 9_7_2020.xlsx

SHIP-FiveMinute.Cougar.9_7_2020 TO 9_13_2020.xlsx

SHIP-FiveMinute.HoldenCreek.9_7_2019 TO 9_7_2020.xlsx

SHIP-FiveMinute.HoldenCreek.9_7_2020 TO 9_13_2020.xlsx

SHIP-FiveMinute.Trailbridge.9_7_2019 TO 9_13_2020.xlsx

SHIP-TwoSecond.CarmenSmith.9_7_2020 TO 9_9_2020.xlsx

SHIP-TwoSecond.Cougar.9_7_2020 TO 9_9_2020.xlsx

SHIP-TwoSecond.HoldenCreek.9_7_2020 TO 9_9_2020.xlsx

SHIP-TwoSecond.Trailbridge.9_7_2020 TO 9_9_2020.xlsx

The following files contain 2 second SCADA data the sites and points listed in site_keys.txt. Each file represents 1 months of data. This information comes from our PI system.

LitigationHoldPIData_July2020.xlsx

LitigationHoldPIData_June2020.xlsx

LitigationHoldPIData_March2020.xlsx

LitigationHoldPIData_May2020.xlsx

LitigationHoldPIData_Nov2020.xlsx

LitigationHoldPIData_Oct2019.xlsx

LitigationHoldPIData_Sept2019.xlsx

LitigationHoldPIData_Sept2020.xlsx

LitigationHoldPIData_Apr2020.xlsx

LitigationHoldPIData_Aug2020.xlsx

LitigationHoldPIData_Dec2019.xlsx

LitigationHoldPIData_Feb2020.xlsx

LitigationHoldPIData_Jan2020.xlsx

SCADA_Alarms_09072019_0913202.xlsx & SCADA_Alarms_Trailbridge_BlueRiver.xlsx – Contains SCADA alarms from the requested sites. Review the message column for SCADA message. This data is retained in our Splunk system. Due to search length we limited the scope to around the request time.

Scope_Picture.png – SCADA one line of the scope we searched. This one line was taken from our SCADA system.

Other:

Voice Recordings

The following files contain voice recordings from two consoles at our Munro Control Center (MCC). These two consoles are MCC Console 5 (Dispatcher responsible for this area) and MCC Senior (Senior Dispatcher responsible for MCC). The voice recordings are presented in two formats, format 1 is the entire day exported as a wav file and format 2 is the NICE (voice recording software) sequence for the called. For format 2 you can use the xml files to fine the times associated with the item, the individual wav files also contain the recorded date and time.

Format 1:

MCC_SR&Console5_Sept6_2020.wav

MCC_SR&Console5_Sept7_2020.wav

MCC_SR&Console5_Sept8_2020.wav

MCC_SR&Console5_Sept9_2020.wav

MCC_SR&Console5_Sept10_2020.wav

MCC_SR&Console5_Sept11_2020.wav

MCC_SR&Console5_Sept12_2020.wav

Format 2 (Folders):

MCC_SR&Console5_Sept6_2020

MCC_SR&Console5_Sept7_2020

MCC_SR&Console5_Sept8_2020

MCC_SR&Console5_Sept9_2020

MCC_SR&Console5_Sept10_2020

MCC_SR&Console5_Sept11_2020

MCC_SR&Console5_Sept12_2020

Helicopter Log

DART-HeliLog-Sept 7 2019 - Sept 13 2020.csv Contains logs from any helicopter flight (that is recorded in the dispatch helicopter log) that mentioned any of the sites listed on the one line from Sept 7 2019 – Sept 13 2020. This data was pulled from the DART SQL Database.

Systems List

Holiday Farm Memo -SCADA_signed.pdf & RE SCADA Date subject to the PRESERVATION OF RECORDS REQUESTLITIGATION HOLD PERTAINING TO HOLIDAY FARM FIRE.msg – Memo signed by Fred Bryant detailing that BPA doesn't have equipment at any of these sites.

No planned outages initiated during the period 2020_09_05 00:00 through 2020_09_08 23:59, inclusive, for the following equipment:

Holden Creek-Thurston No 1 115kV line	No planned outages, only automatic
Cougar-Holden Creek No 1 115kV line	No planned outages, only automatic
Blue River: Lane Elec Coop 115kV Feeder 1	No planned outages, only automatic
Blue River: 115/12.5kV Transformer 1	No planned or automatic outages
Carmen PH: EWEB (Eugene OR) 115kV Feeder 1 outages	No planned outages, only automatic

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OPS Trouble Report

Dispatcher and Reference Information

Equipment Name Cougar-Holden Creek No 1 115kV line	Out Datetime 09/07/2020 17:25	In Datetime
Station Cougar Substation	Headquarters Alvey	Dispatch Cause Weather
	Responsible System BPA	Total Miles 27.26
		OutageID 215806

Component: TRANSMISSION EQUIPMENT
Cause: ...Tree blown
Responsible System: BPA
Dfr/Osc Operated: Does Not Apply
Fault Location (from reporting station): 5 Miles
Local Weather: Stormy
Temperature: 80's
Reported By: C. Meloy

Trouble Report Last Update:

Save Reset Cancel

PCB Information

Modify or Delete row	PCB LBD	PCB Present Count	# Of Fault Operations	Is Reclosing Relay In?
Modify/Delete	B-1396	431	1	Does not apply

Add New PCB

Target Information

Modify or Delete row	Set	Type	Target
Modify/Delete	Set #1	GCY & RPM	AØ - BØ, Zone 1

Add New Target

Transfer Trip Information

No Transfer Trip data has been entered.

Add New Transfer Trip

Associated POD Outages

Modify row	POD Name	Is Load Interrupted	Responsible System
Modify	Carmen PH: EWEB (Eugene OR) 115kV Feeder 1	<input checked="" type="checkbox"/>	BPA

POD Name
 Carmen PH: EWEB (Eugene OR) 115kV Feeder 1

Is Load Interrupted

Responsible System
 BPA

Edit Reset Cancel

Comments

09/17/2020 Spc(CUGR)
 Edit
 Received GCY targets from Operations for Cougar relaying report. Also received SEL event reports from EWEB for Holden Creek. Holden Creek tripped correctly for AB fault with zone 2 time delay. The first reclose at HC was in 8 seconds and failed. The second fault was also AB and tripped by zone 2 time. The second reclose attempt (occurring after the Blue River sectionalizer can complete) occurs at 28 seconds and was successful, heating Blue River back up. Carmen Smith and Cougar remained out at this time with the tree in the line on the Carmen Tap.

09/17/2020 Spc(CUGR)
 Edit
 The Cougar-Holden Creek 115kV line would be manually de-energized at Holden Creek approx. 3 hours later for fire mitigation after reports of a fire near Blue River came in.

09/21/2020 Ops(CUGR)
 Edit
 Extreme weather was present on the Evening of September 7th. Winds from the East were reported to be gusting close to 70 MPH. Response was delayed by 4 days due to the Holiday Farm Fire. At the point of first inspection There were trees at Structures 2/2, 2/5, 5/2, and 6/1. Relay Data Modeled in Aspen placed the initial A-BØ fault at Structure 5/2 where a large Western Hemlock tree had fallen from Off ROW and pinned the AØ conductor to the ground. From Relay data, it appears that the tree pushed A&B phases together for the initial fault and reclose attempt, then at some later point the tree-top broke or moved enough to release BØ.

New Comment

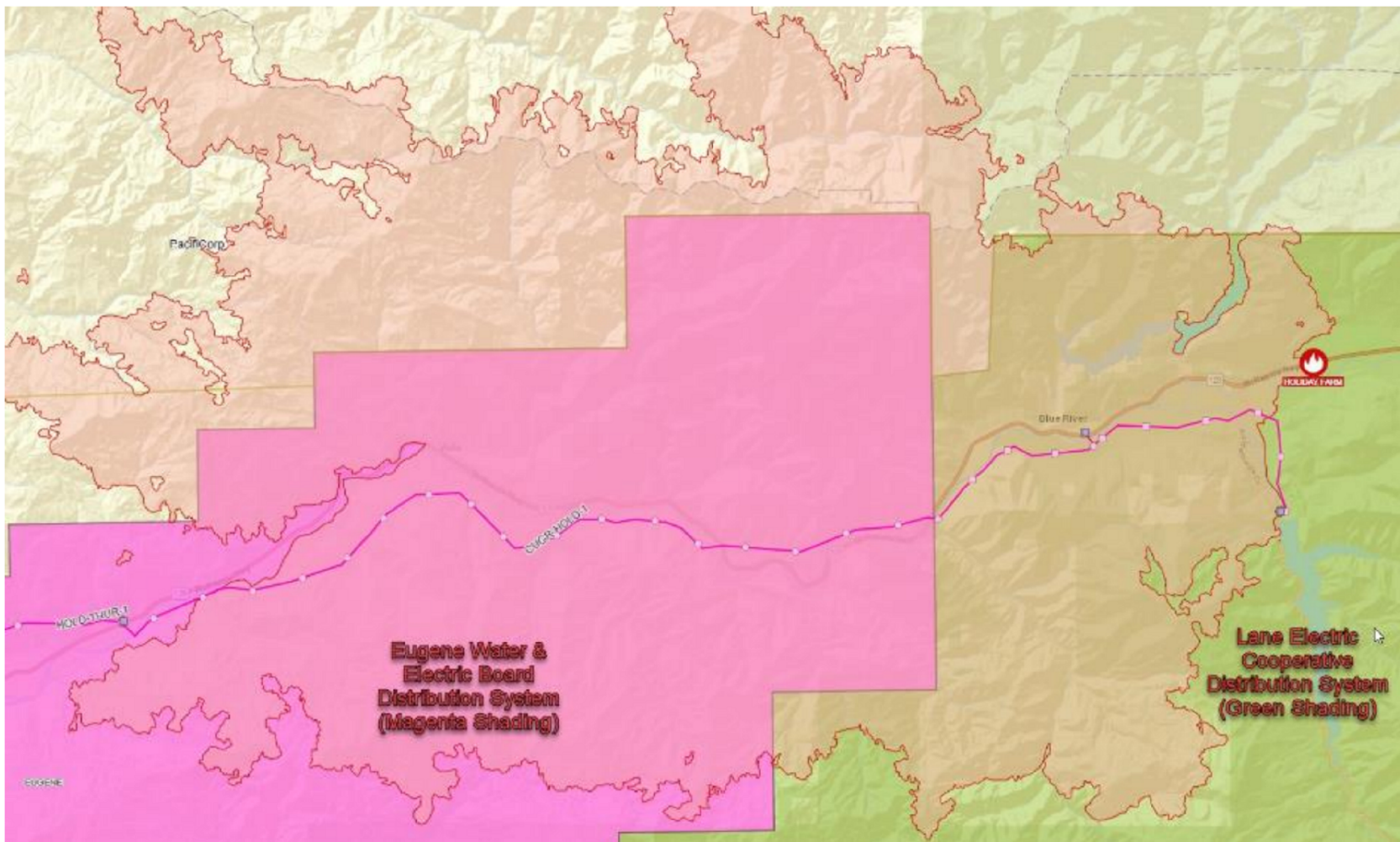
Add Comment

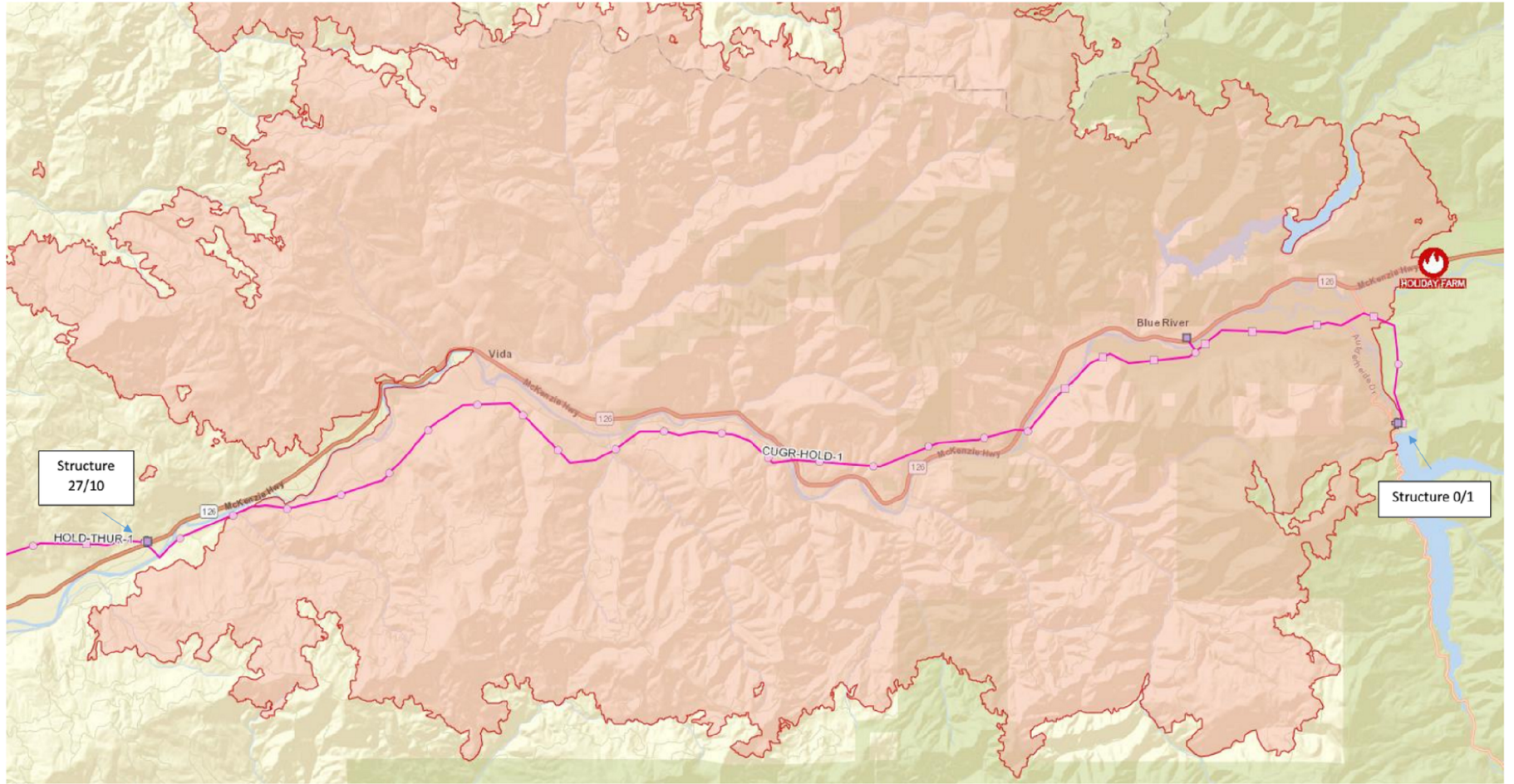
Trouble Report Selector

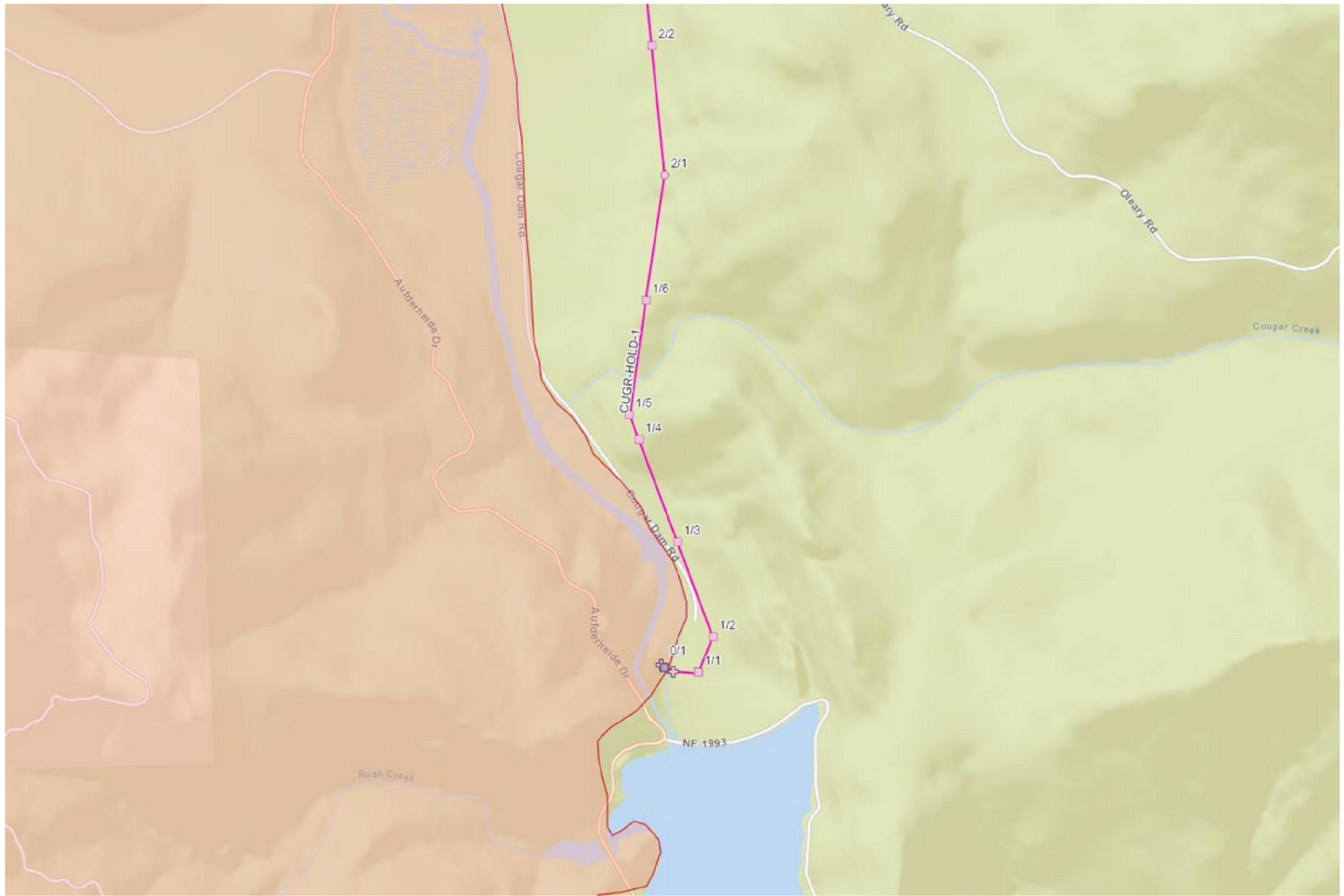
Craft	Xref	Name	Last Update	Cause	Responsible System
SPC	CUGR	Cougar Substation	09/17/2020 08:40	Tree	BPA
OPS	CUGR	Cougar Substation			

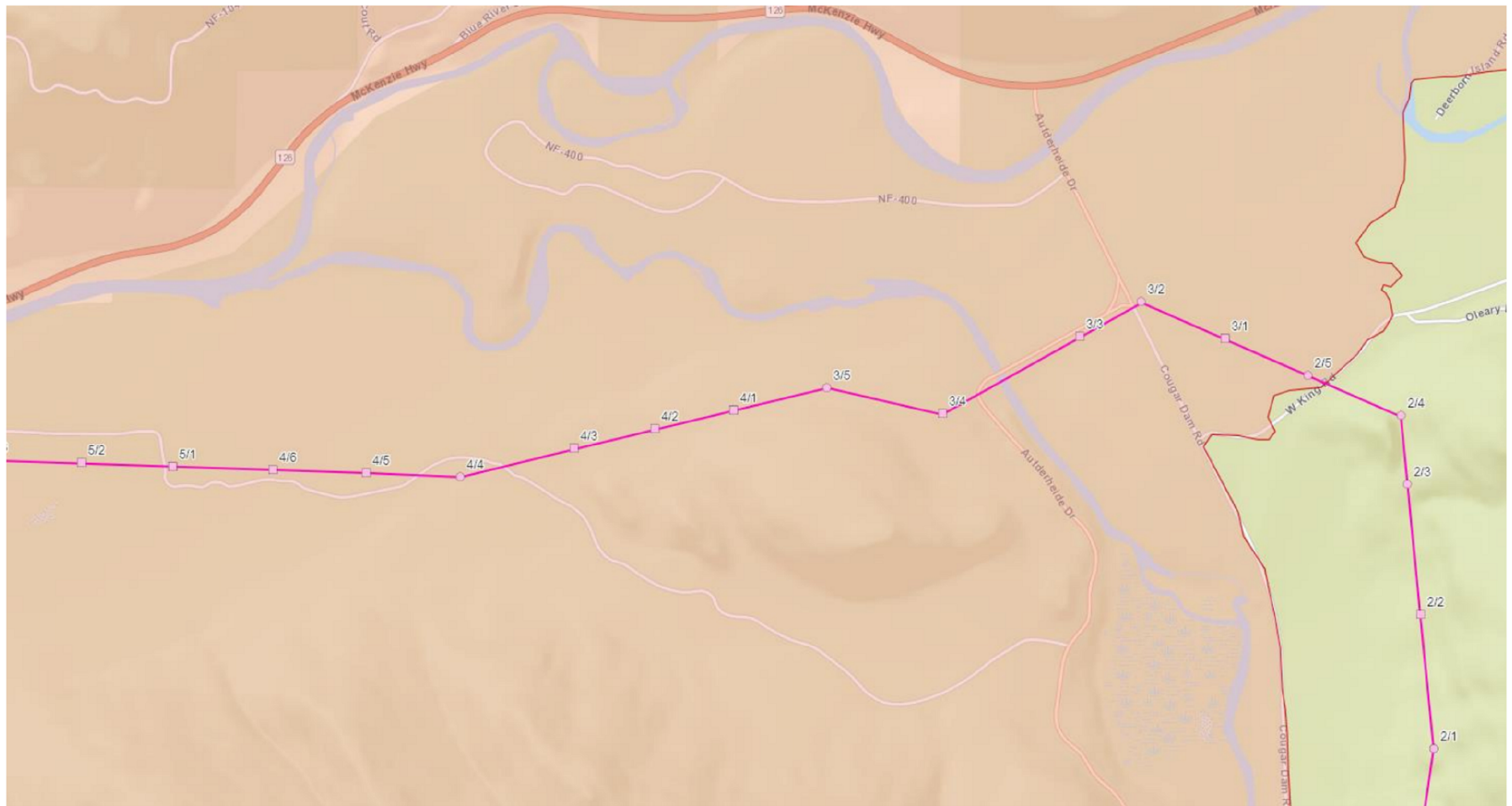
OARS (Outage Analysis and Reporting System) Version 3.4.1.8208, User: BUD\CAM5969, Role: OPI-OARS-OpsEditors
For content-related issues contact **Denise Allen 360.418.2908** For access or software-related issues contact **Ralph Erdmann 360.418.2333**

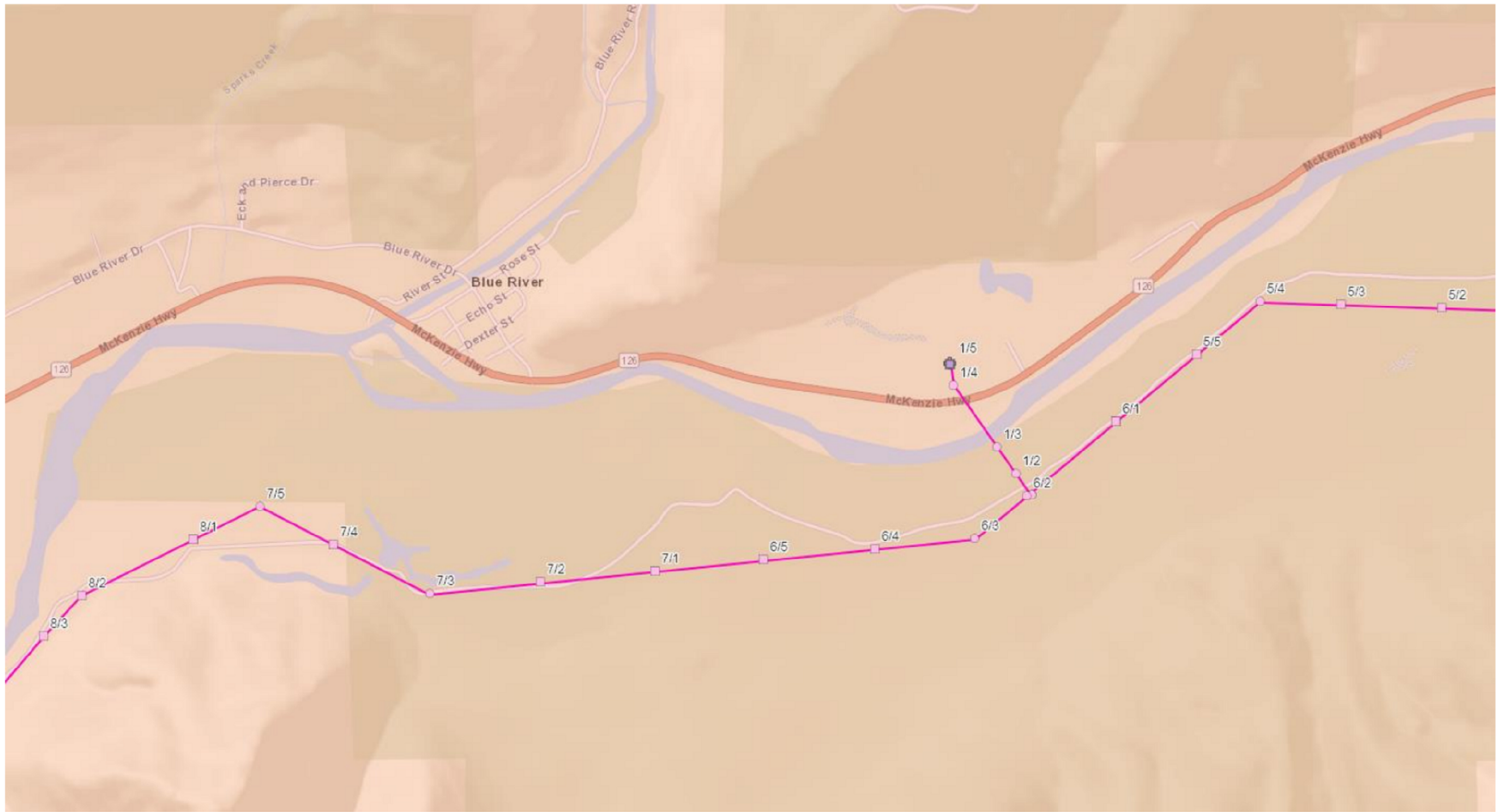
Cougar-Holden Creek #1 Line – Bonneville Power Administration Line – from 0/1 to 27/10 - Dated 9/24/2020

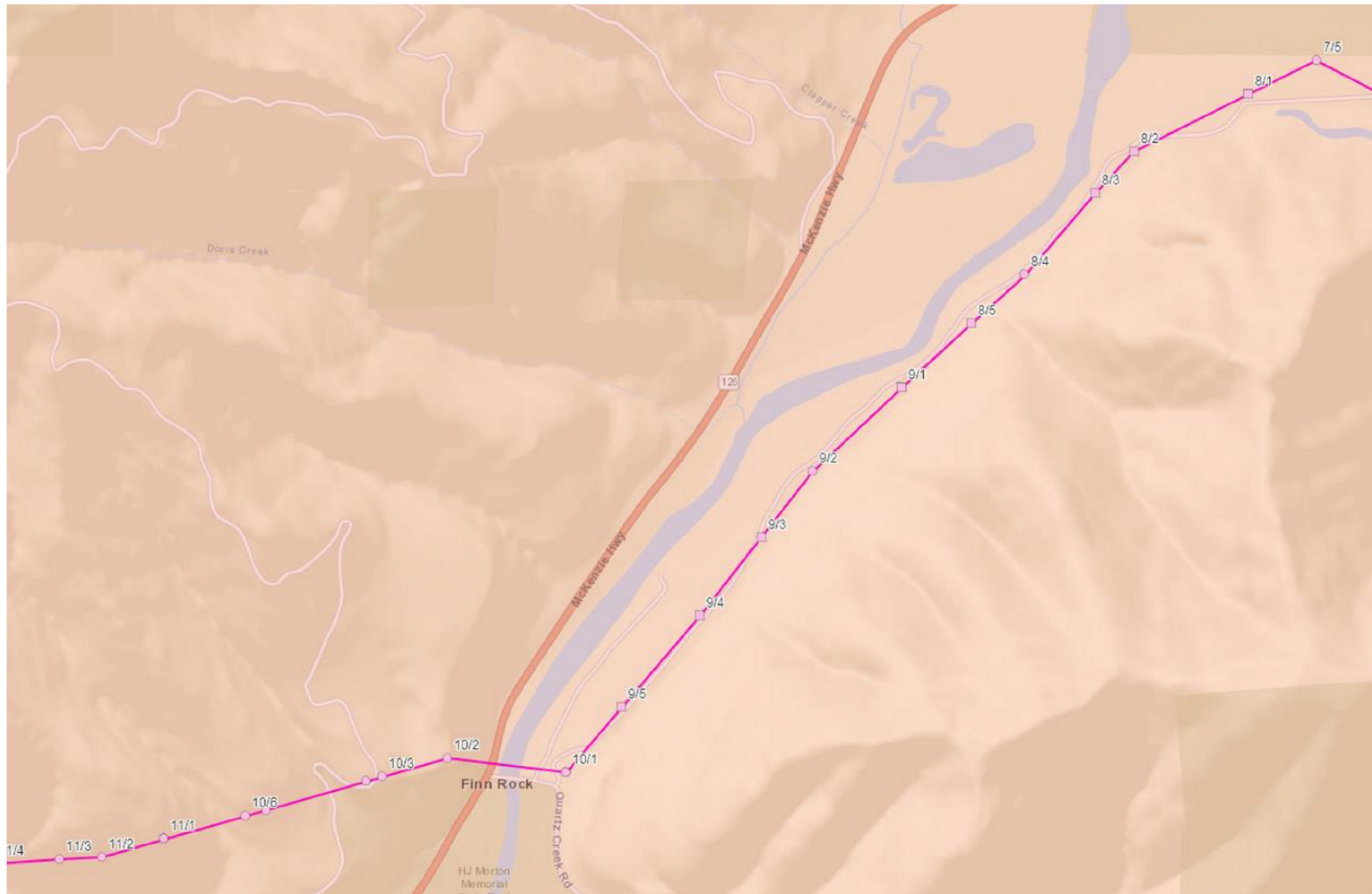


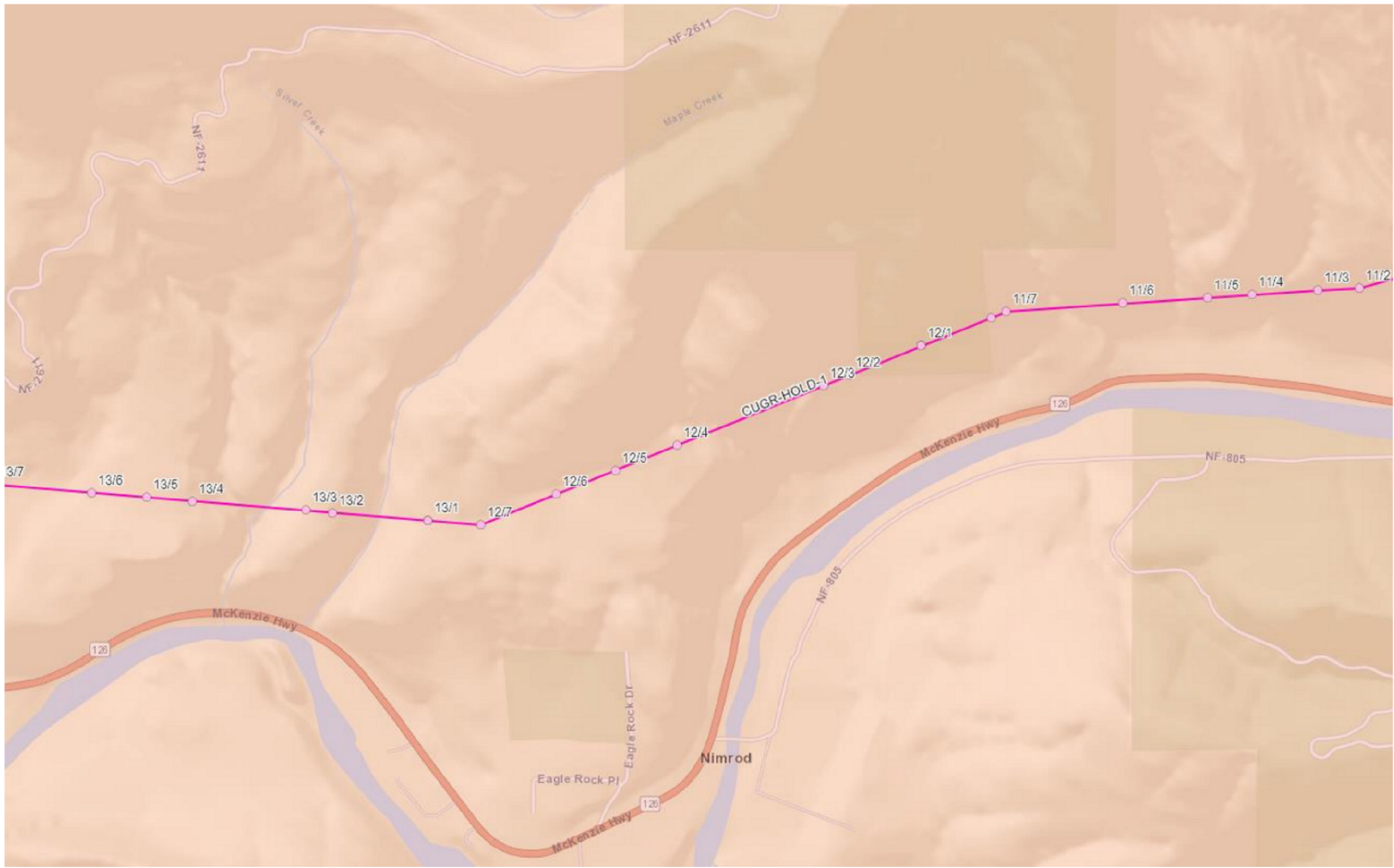


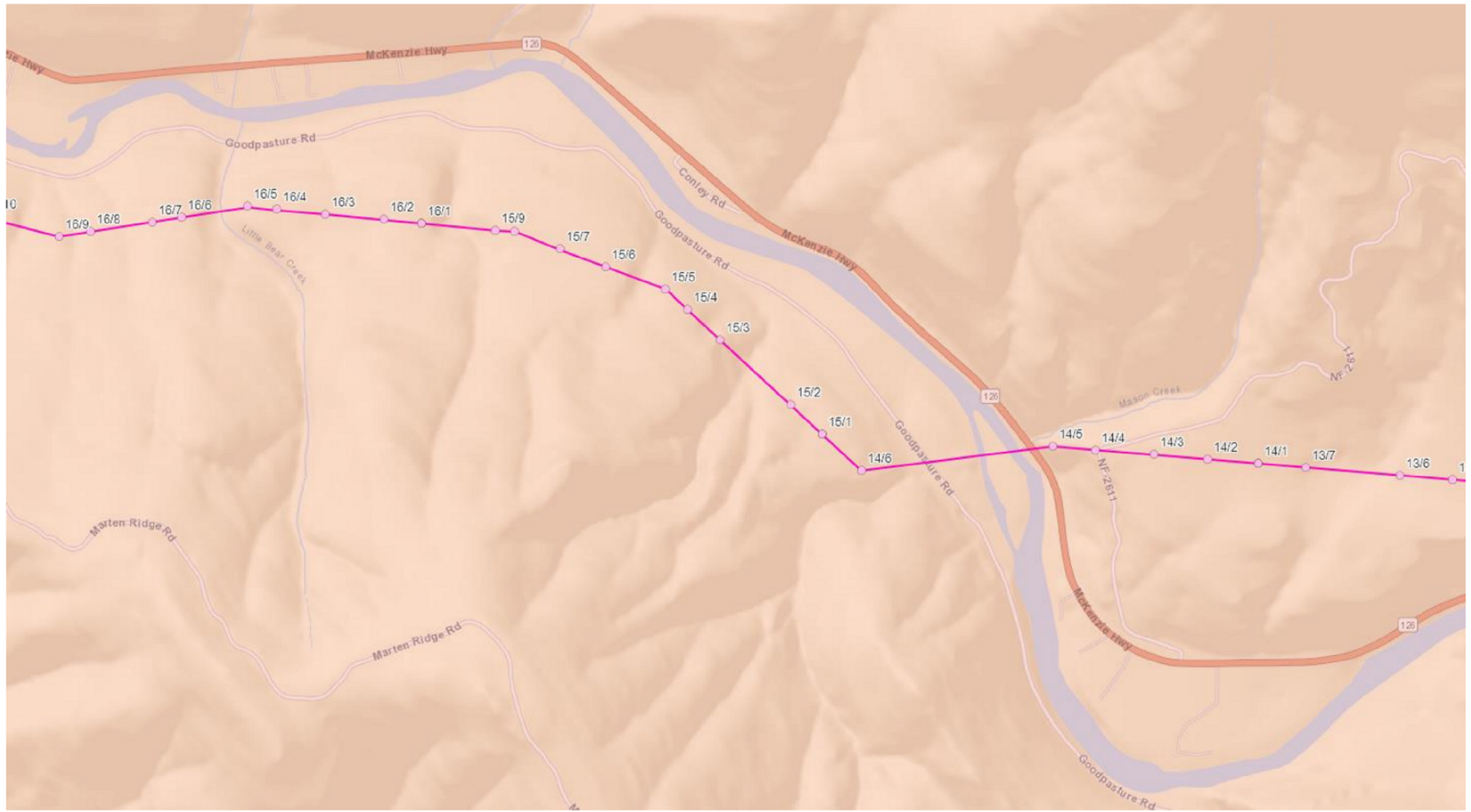


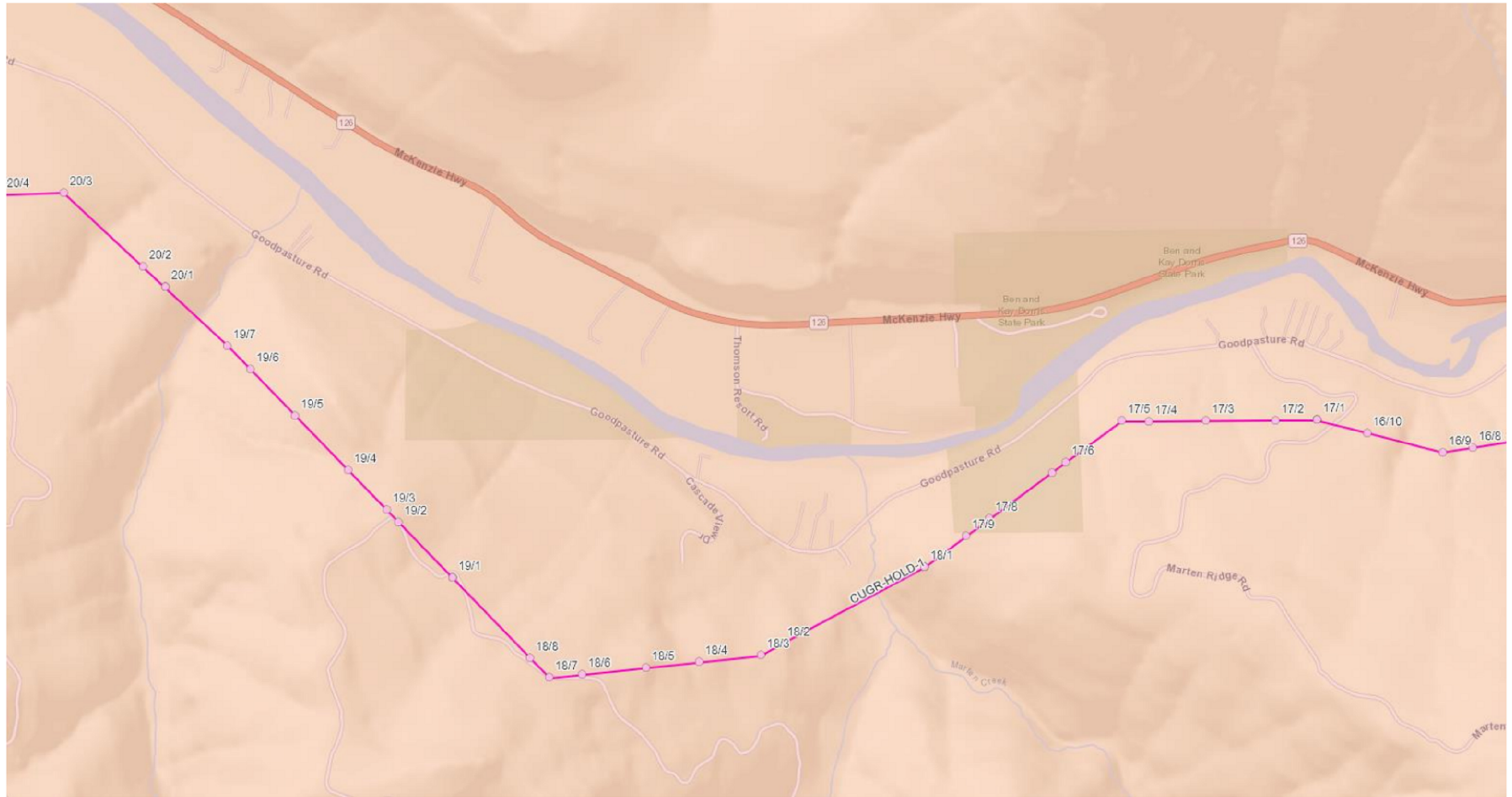


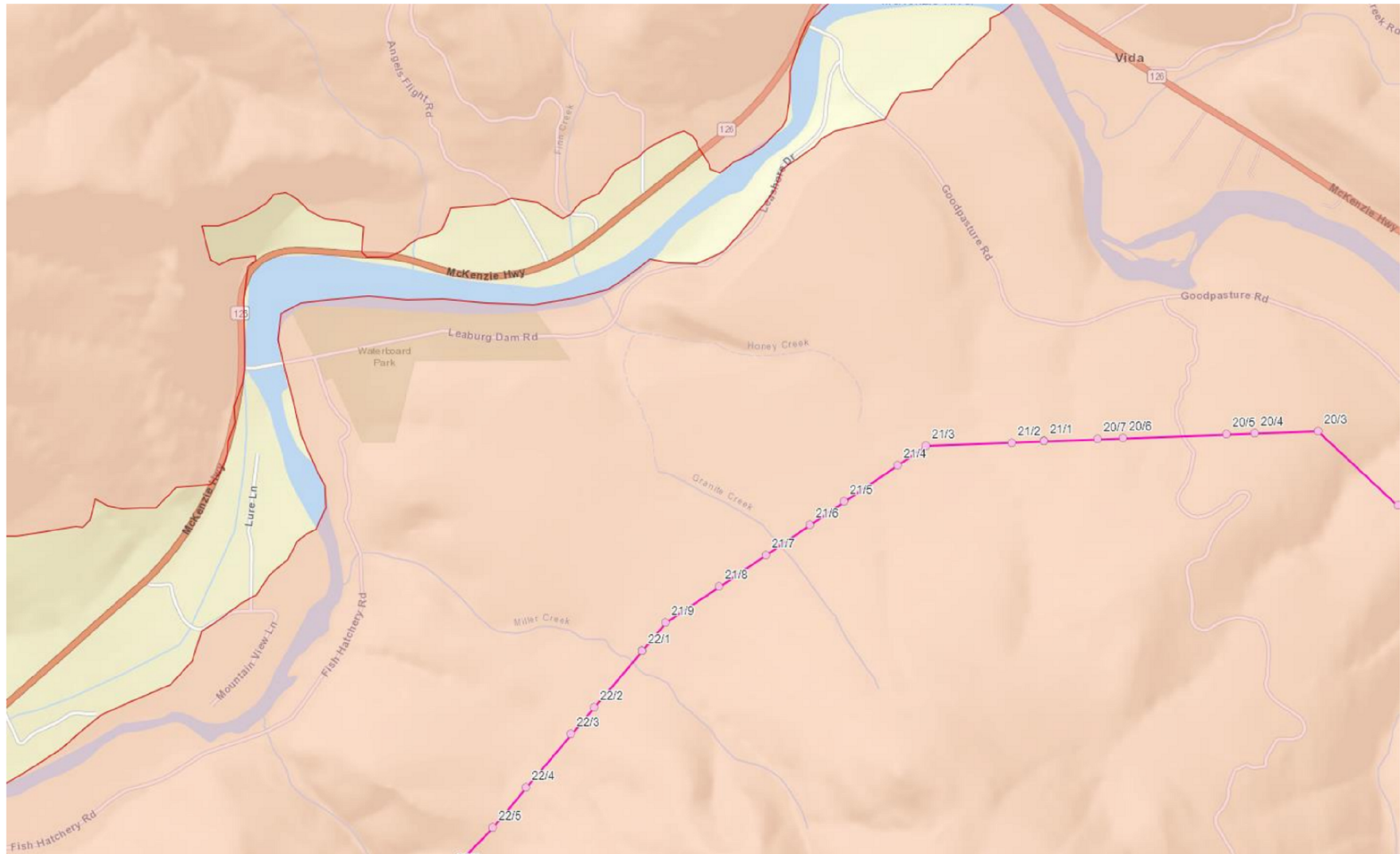


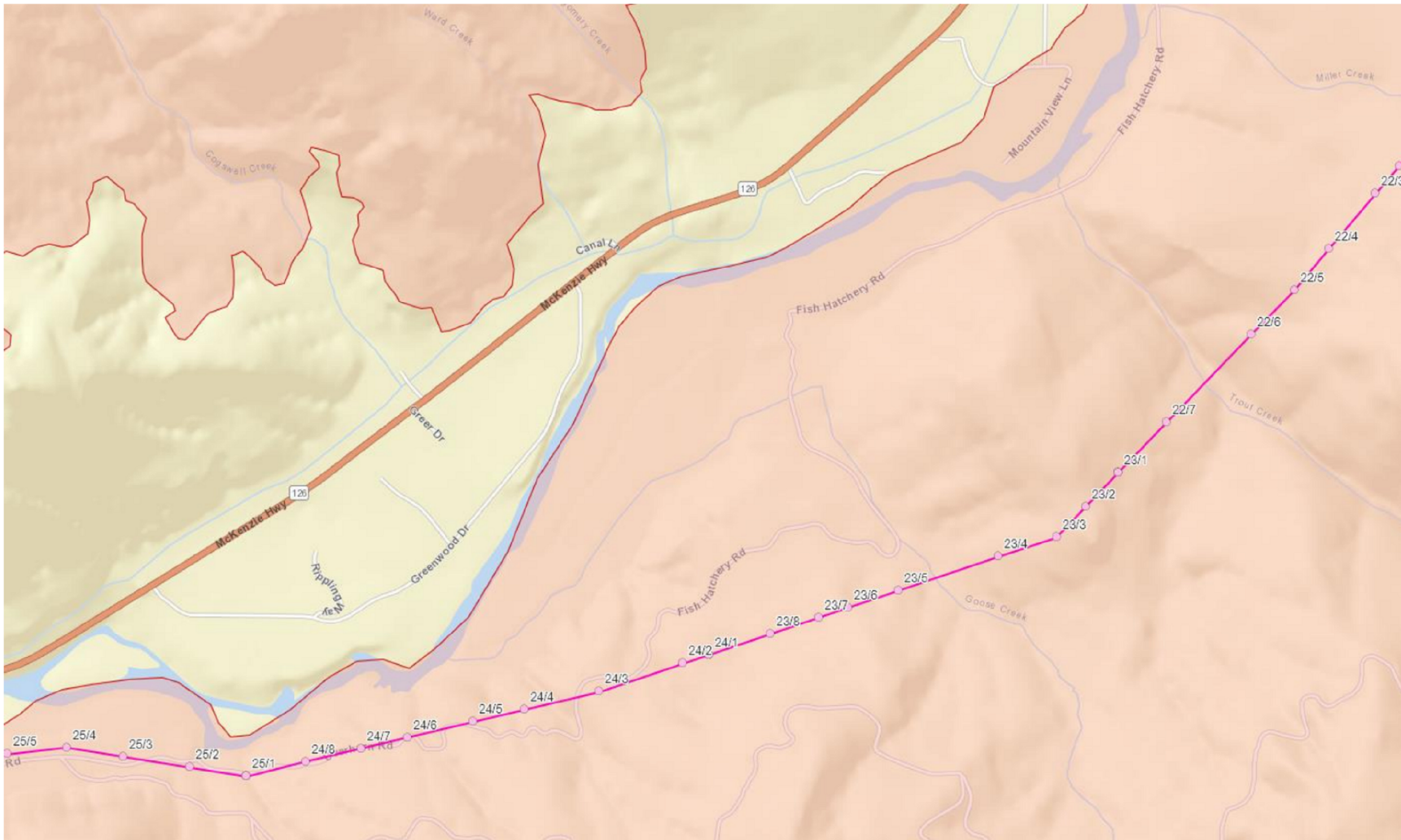


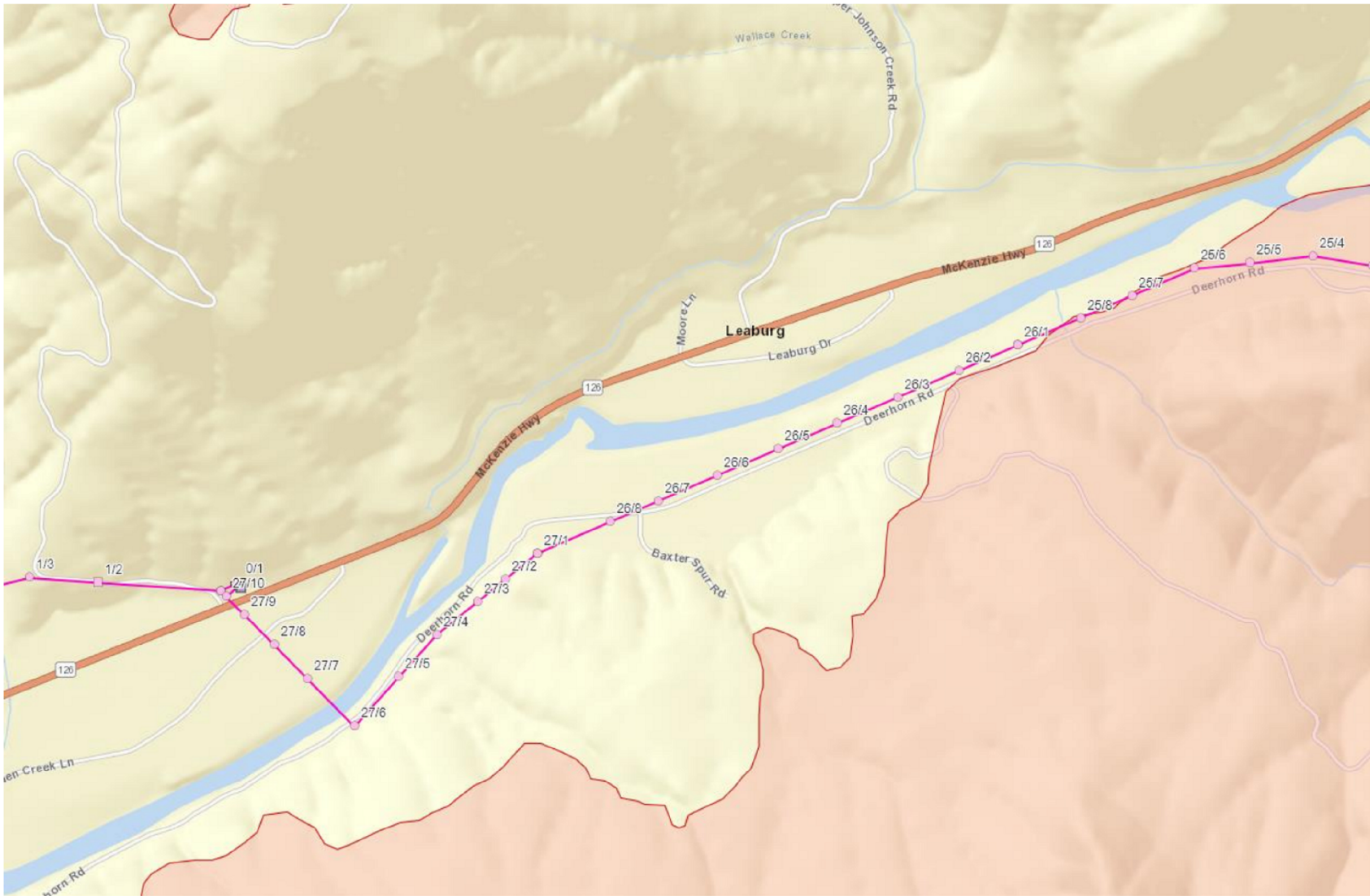














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OPS Trouble Report

Dispatcher and Reference Information

Equipment Name Cougar-Holden Creek No 1 115kV line	Headquarters Alvey	Dispatch Cause Tree	Out Datetime 09/07/2020 20:26	In Datetime	OutageID 215830
Station Cougar Substation			Responsible System BPA	Total Miles 27.26	

Component: TRANSMISSION EQUIPMENT
Cause: ...Tree blown
Responsible System: BPA
Dfr/Osc Operated: Does Not Apply
Fault Location (from reporting station): 5 Miles
Local Weather: Stormy
Temperature: 80's
Reported By: C. Meloy

Trouble Report Last Update:

Save Reset Cancel

PCB Information

Modify or Delete row	PCB LBD	PCB Present Count	# Of Fault Operations	Is Reclosing Relay In?
Modify/Delete	B-1396	431	0	Does not apply

Add New PCB

Target Information

No Target data has been entered.

Add New Target

Transfer Trip Information

No Transfer Trip data has been entered.

Add New Transfer Trip

Associated POD Outages

There are no associated POD outages.

Comments

09/17/2020 Spc(CUGR)
 Edit
 At 20:25, the Cougar terminal was already open due to a permanent tree fault on the carmen tap that occurred at 17:25. Holden Creek was manually opened up due to a report of fire near Blue River. No fault occurred at this time. The line was de-energized for fire mitigation.

09/21/2020 Ops(CUGR) This terminal had already been opened during the event logged at 1725
[Edit](#)

New Comment

Add Comment

Trouble Report Selector

Craft	Xref	Name	Last Update	Cause	Responsible System
SPC	CUGR	Cougar Substation	09/17/2020 08:33		
OPS	CUGR	Cougar Substation			

TIME	THURSDAY SEPTEMBER 3, 2020			
1039 TO	D. WAKEFIELD /TFZ IN FOR INSPECTION			
1039	STATION CONDITIONS: 84°F / CLEAR ALL HANDS IN SERVICE. STATION IS NORMAL. THE PERIMETER IS SECURED.			
1055	COMPLETED SWITCHYARD INSPECTION. ALL HIGH VOLTAGE EQUIPMENT IS NORMAL EXCEPT WHERE OTHERWISE NOTED IN CASCADE. NO NEW OIL LEAKS TO REPORT.			
	<p>All oil filled equipment has been inspected and all new oil leaks or those that have significantly changed have been logged and reported to Substation Maintenance via e-mail.</p> <p>- D WAKEFIELD</p> <p>9-11-20</p>			
1106 TO 1135	CHRIS MCELROY	TFEB	Switch	
1106 TO 1135	WADDE PARSONS	TFEB	Switch	
1108	PERFORMED A PRE SWITCH INSPECTION ON B-1396 TERMINAL			
1110	STATION CONDITIONS 60° WINDY. OFFLINE AND LINE DE ENERGIZED DUE TO FIRE.			
1115	SO# 019936 MCC 2BUSE TO P1A2 PURPOSE: TO CLEAR AND GROUND THE COUPLER-HOLDING CASK #1 115KV LINE CHECK OPEN FOR B-1396 1431 OPEN AND TAG B-1396 4S DISCONNECT TAG FOR MCC DISCONNECTED IN + DO NOT OPERATE TAG. CLOSE GROUND SWITCH # 7108.			
1124	SO# 019936 COMPLETE			
	- INTERVIEW -			
	FRIDAY SEPTEMBER 4, 2020			
1415 TO 1427	D. WAKEFIELD /TFZ IN FOR DOCUMENT PRESERVATION			

NOTE: Make entries in ink. Line out and initial mistakes. Use RED INK for ground switch operations, automatic PCB operations, and clearances issued by released to the operator.



10/2



11/4



11/7



14/5

14/6







14/6



15/2



15/4



15/5



16/10





16/2



16/4