

NPCF Events and Status

20 Mar 2020 13:22

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NPCF Issues

Date	Time	Duration /msec	Event Type	What Happened?	Effects
07/05 /2024	08:22:19	33.99	Sag Feed D	Voltage level Vbn 228.44v, 82.47of full scale.	None reported, UPD discharged for 36 seconds
07/05 /2024	08:22:24	49.99	Sag Feed C	Voltage level Vbn 181.41v, 65.49 of full scale.	None reported, UPS discharged for 36 seconds
07/05 /2024	08:22:17	33.00	Sag Feed B	Voltage level Vbn 224.99v, 81.22 of full scale.	None reported, UPS discharged for 36 seconds
07/05 /2024	08:22:23	49.99	Sag Feed A	Voltage level Vbn 215.93v, 77.95 of full scale.	None reported, UPS discharged for 36 seconds
03/23 /2024	12:42:28	33	Sag Feed D	Voltage level Vbn 230.31v, 83.15% of full scale.	None reported
03/23 /2024	12:42:23	16.99	Sag Feed D	Voltage level Vbn 233.23v, 84.20% of full scale.	None reported
03/23 /2024	12:42:33	33	Sag Feed C	Voltage level Vbn 216.13v, 78.02% of full scale.	None reported
03/23 /2024	12:42:28	16	Sag Feed C	Voltage level Vbn 217.57v, 78.55% of full scale.	None reported
03/23 /2024	12:42:26	33	Sag Feed B	Voltage level Vbn 219.17v, 79.12% of full scale.	None reported
03/23 /2024	12:42:21	16.994	Sag Feed B	Voltage level Vbn 219.37v, 79.20% of full scale.	None reported
03/23 /2024	12:42:32	33.99	Sag Feed A	Voltage level Vbn 215v, 77.65% of full scale.	None reported
03/23 /2024	12:42:27	33.99	Sag Feed A	Voltage level Vbn 224.21v, 89.97% of full scale.	None reported
01/27 /2024	21:40:19	66	Sag Feed D	Voltage level Vcn 172.12v, 62.14% of full scale.	None reported
01/27 /2024	21:40:19	49.99	Sag Feed C	Voltage level Vcn 171.71v, 61.63% of full scale.	mForge reported servers reboot.
01/27 /2024	21:40:12	66	Sag Feed B	Voltage level Vcn 132.83v, 47.95% of full scale.	None reported
01/27 /2024	21:40:18	66.99	Sang Feed A	Voltage level Vcn 181.26v, 65.44% of full scale.	mForge reported servers reboot.
08/19 /2023	03:19:07	49.99	Sang Feed A	Voltage level Vbn 230.42v, 83.18 % of full scale.	No issues were reported
08/19 /2023	03:18:22	49.99	Sang Feed A	Voltage level Vbn 221v, 80.12 % of full scale.	No issues were reported
08/19 /2023	03:18:12	15.99	Sang Feed A	Voltage level Vbn 234.15v, 84.53 % of full scale.	No issues were reported
07/17 /2023	20:25:21	17.003	Sag Feed A	Voltage level Vbn 234.98v, 84.83 % of full scale.	No issues were reported
07/17 /2023	20:25:22	16.000	Sag Feed C	Voltage level Vbn 235.14v, 84.89 % of full scale.	No issues were reported
07/08 /2023	04:31:34	34.66	Feed C	Sag events on Feed C phase a, b, c. Lowest voltage level Vbn 200.35v, 72.33 % of full scale.	Some systems dropped off due to low voltage.
07/08 /2023	04:31:27	67.00	Feed B	Sag events on Feed B phase a, b, c. Lowest voltage level Van 184.10v, 66.46 % of full scale.	Some systems dropped off due to low voltage.
07/08 /2023	04:31:33	83.99	Feed A	Sag events on Feed A phase a, b, c. Lowest voltage level Vbn 190.5v, 68.61 % of full scale.	Some systems dropped off due to low voltage.
07/08 /2023	04:31:29	66.00	Feed D	Sag events on Feed C phase a, b, c. Lowest voltage level Van 197.17v, 71.18 % of full scale.	Some systems dropped off due to low voltage.

06/29 /2023	13:16:37	382.99	Voltage Sag Feed D	Total 15 events on Feed D. Vbn (all phases) voltage level 171.23, 61.81% of full scale	Most equipment at the data center went offline
06/29 /2023	13:16:43	17.00	Voltage Surge Feed C	Total 3 events on Feed C. Vbn (all phases) voltage level 12,827.52V, 427.58% of full scale	Serious power quality issue check severs power supplies for possible damage . Most equipment at the data center went offline
06/29 /2023	13:16:49	82.995	Voltage Sag Feed C	Total 23 events on Feed C. Vbn (all phases) voltage level 163.02, 58.85% of full scale	Most equipment at the data center went offline
06/29 /2023	13:16:35	383.997	Feed B Sag (brown out)	Total 14 events on Feed B. Vbn (all phases) voltage level 173.47, 62.62% of full scale	Most equipment at the data center went offline
06/29 /2023	13:16:42	383.995	Feed A Sag (brown out)	Total 15 events on Feed A. Vbn (all phases) voltage level 158.58, 57.25% of full scale	Most equipment at the data center went offline
06/29 /2023	13:18:26	18.00	All Power feeds	Sag and swell on all facility feeds	Please check you equipment
05/27 /2023	02:59:28	34.00	E20, Voltage Sag Feed D	Vbn voltage level 216.17, 78.04% of full scale	No impact on production reported
05/27 /2023	02:59:23	33.99	E20, Voltage Sag Feed D	Van voltage level 200.91, 72.53% of full scale	No impact on production reported
05/27 /2023	02:59:33	33.99	E19, Voltage Sag Feed C	Vbn voltage level 226.04, 81.60% of full scale	No impact on production reported
05/27 /2023	02:59:28	33.00	E19, Voltage Sag Feed C	Van voltage level 223.01, 80.51% of full scale	No impact on production reported
05/27 /2023	02:59:21	16.99	E18, Voltage Sag Feed B	Van voltage level 233.19, 84.18% of full scale	No impact on production reported
05/27 /2023	02:59:32	16.99	E17, Voltage Sag Feed A	Vbn voltage level 232.70, 84.01% of full scale	No impact on production reported
05/27 /2023	02:59:27	32.99	E17, Voltage Sag Feed A	Van voltage level 223.37, 86.64% of full scale	No impact on production reported
03/31 /2023	10:25:45	533	E20, Voltage Sag Feed D	Va RMS =234.397 (84.62%), Vb=233.849 (84.42%) of full scall	No impact on production reported
09/24 /2022	03:40: 44PM	16.99	Voltage Sag Feed B	Vbn voltage level 2231.01, 83.40% of full scale	No impact on production reported
09/24 /2022	03:40: 46PM	32.99	Voltage Sag Feed D	Vbn voltage level 219.70, 79.31% of full scale	No impact on production reported
09/24 /2022	03:40: 50PM	32.99	Voltage Sag Feed A	Vbn voltage level 214.69, 77.5% of full scale	No impact on production reported
09/24 /2022	03:40: 51PM	33	Voltage Sag Feed C	Vbn voltage level 218.81, 98.99% of full scale	No impact on production reported
08/03 /022	05:58:49	16.00	Voltage Sag Feed C	Van voltage level 235.21, 84.91% of full scale	No impact on production reported
08/03 /022	05:58:48	17.00	Voltage Sag Feed A	Van voltage level 243.72, 84.73% of full scale	No impact on production reported
3/6 /2022	03:21:08	17.00	Voltage Sag Feed D	Vcn voltage level 231.80, 86.68% of full scale	No impact on production reported
3/6 /2022	03:21:22	33.99	Voltage Sag Feed C	Vcn voltage level 218.45, 78.86% of full scale	No impact on production reported
3/6 /2022	04:20:56	33.00	Voltage Sag Feed B	Vcn voltage level 231.59, 83.61% of full scale	No impact on production reported
3/6 /2022	03:21:11	16.99	Voltage Sag Feed A	Vcn voltage level 232.85, 84.6% of full scale	No impact on production but there was a delay of 3 hours to send notification out

02/09/2022	05:55:03	33	Voltage Sag Feed D	Vbn voltage level 2632.76, 83.04% of full scale	 SVC-13815 - Jira project doesn't exist or you don't have permission to view it.
02/09/2022	05:55:12	34	Voltage Sag Feed C	Vbn voltage level 206.88, 74.69% of full scale	 SVC-13815 - Jira project doesn't exist or you don't have permission to view it.
02/09/2022	05:55:01	34	Voltage Sag Feed A	Vbn voltage level 231.44, 83.55% of full scale	 SVC-13815 - Jira project doesn't exist or you don't have permission to view it.
12/01/2021	01:21:55	17	Voltage Sag Feed C	Van voltage level 232.83, 84.05% of full scale	No issues reported  SVC-5147 - Jira project doesn't exist or you don't have permission to view it.
10/11/2021	15:42:45	49.99	Voltage Sag Feed A	Vcn voltage level 216.06, 78.00% of full scale	No issues reported
10/11/2021	16:42:35	16	Voltage Sag Feed B	Van voltage level 230.96, 83.38% of full scale	No issues reported
10/11/2021	15:42:56	49.999	Voltage Sag Feed C	Vcn voltage level 227.16, 82.01% of full scale	No issues reported
10/11/2021	15:42:47	49.999	Voltage Sag Feed D	Vcn voltage level 218.35, 78.83% of full scale	No issues reported
10/07/2021	14:42:23	67	Voltage Sag Feed A	Van voltage level 195.23, 70.48% of full scale	Some equipment rebooted
10/07/2021	13:42:13	49.999	Voltage Sag Feed B	Van voltage level 220.37, 79.56% of full scale	Some equipment rebooted
10/07/2021	14:42:34	49.999	Voltage Sag Feed C	Vcn voltage level 211.66, 76.41% of full scale	Some equipment rebooted
10/07/2021	12:42:25	66.000	Voltage Sag Feed D	Van voltage level 196.45, 70.92% of full scale	Some equipment rebooted
10/01/2021	18:38:37	66	Voltage Sag Feed D	Vbn voltage level 208v, 75.03% of full scale	Multiple systems impact
10/01/2021	17:38:46	49.99	Voltage Sag Feed C	Vbn voltage level 218.32, 81.32% of full scale	Multiple systems impact
10/01/2021	17:38:35	50	Voltage Sag Feed B	Vbn voltage level 225.24, 75.29% of full scale	Multiple systems impact
10/01/2021	17:38:35	49.99	Voltage Sag Feed A	Vbn voltage level 208.54, 78.82% of full scale	Multiple systems impact
09/07/2021	06:34:04	33	Voltage Sag Feed C	Vcn voltage level 218.49, 79.24% of full scale	No problems reported
09/07/2021	06:33:55	16	Voltage Sag Feed D	Vcn voltage level 228.69, 82.56% of full scale	No problems reported
09/07/2021	06:33:53	33	Voltage Sag Feed A	Vcn voltage level 220.20, 79.50% of full scale	No problems reported

8/12 /2021	05:58:06	32.99	Voltage Sag Feed C	Vcn voltage level 229.85, 82.97% of full scale	No impact to production equipment (just a couple of servers seeing low voltage at one point)
 SVC-3614 - Jira project doesn't exist or you don't have permission to view it.					
8/12 /2021	05:57:55	17.00	Voltage Sag Feed C	Vcn voltage level 229.85, 82.97% of full scale	
 SVC-3614 - Jira project doesn't exist or you don't have permission to view it.					
8/12 /2021	05:48:33	17.00	Voltage Sag Feed C	Vcn voltage level 235.03, 84.85% of full scale	
 SVC-3614 - Jira project doesn't exist or you don't have permission to view it.					
07/01 /2021	02:47:28	83.99	Voltage Sag Feed A	Vbn voltage level dropped to 73.18% and Vcn voltage level dropped to 74.48%	Many production equipment reboot reported
 SVC-3049 - Jira project doesn't exist or you don't have permission to view it.					
07/01 /2021	02:47:31	83	Voltage Sag Feed D	Vbn voltage level dropped to 76.46% and Vcn voltage level dropped to 72.10%	Many production equipment reboot reported
 SVC-3049 - Jira project doesn't exist or you don't have permission to view it.					
07/01 /2021	02:47:19	83 ms	Voltage Sag Feed B	Voltage level dropped to 73.49% of nominal Vcn 204	TBD (BW on feed)
 SVC-3049 - Jira project doesn't exist or you don't have permission to view it.					
07/01 /2021	02:47:39	83 ms	Voltage Sag Feed C	Voltage level dropped to 67.12% of nominal Vcn 187	TBD (BW Storage, iForge, LSST on feed)
 SVC-3049 - Jira project doesn't exist or you don't have permission to view it.					
05/11 /2021	06:44:40			1244-E1 CBEMA CURVE THRESHOLD POSSIBLY ENCROACHED from email at 3:55am 5/12/2021	
05/11 /2021	06:44:40	33 ms	Voltage Sag Feed A	Voltage level dropped to 79.44% of nominal Van 220	
05/11 /2021	06:44:51	17 ms	Voltage Sag Feed C	Voltage level dropped to 83.75% of nominal Van 232	

4/02/2021	11:18:18	34 ms	Voltage Sag Feed A	Vcn 73.66% of full scale voltage	mForge severs dropped out; also LSST (in NCSA 3003) and iForge —  SVC-1733 - Jira project doesn't exist or you don't have permission to view it.
10/02/2020	12:33:53	533 ms	Voltage Swell Feed A	Voltage above nominal value by 110.8% Van 307	
10/2/2020	06:51:26	533ms	Voltage Swell; Feed A	Voltage above nominal value by 110.0% Vcn 304	
10/02/2020	06:46:33	533 ms	Voltage Sag Feed B	Voltage Level dropped to 76.5% of nominal Vcn 211	
10/02/2020	06:42:21	533 ms	Voltage Swell Feed C	Voltage level above nominal value by 110.6% Vcn 306	
10/02/2020	05:46:54	533 ms	Voltage Sag Feed C	Voltage level dropped to 88.8% of nominal Vcn 246	
10/02/2020	05:46:46	533ms	Voltage Sag Feed D	Voltage level dropped to 80.2% of nominal Vcn 222	
10/02/2020	05:46:54	533ms	Voltage Sag Feed A	Voltage Level dropped to 85.2% of nominal Vcn 235.963	Effects: BW, iForge, mForge, LSST
8/25/2020	12:22:22	897	Voltage Swell Feed D	Voltage above nominal value by 219.1% Van 607	
08/24/2020	04:52:36	636	Voltage Swell Feed D	Voltage above nominal value by 177.6% Van 492	
08/23/2020	00:18:07	237	Voltage Swell Feed D	Voltage above nominal value by 115.8% Van 321	
08/20/2020	05:05:57	141	Voltage Swell Feed B	Voltage above nominal value by 174.0% Van 482	
08/19/2020	07:21:00	794	Voltage Swell Feed B	Voltage above nominal value by 149.8% Van 415	
8/17/2020	03:43:06	676	Voltage Swell Feed B	Voltage above nominal value by 162.22% Van 438	
08/16/2020	06:36:16	353	Voltage Swell Feed B	Voltage above nominal value by 174.0% Vbn 482	
08/09/2020	14:45:47	468	Voltage Swell Feed D	Voltage above nominal value by 142.2% Van 394	
08/05/2020	02:07:37	610	Voltage Swell Feed B	Voltage above nominal value by 194.2% Van 538	
08/03/2020	12:17:00	244	Voltage Swell Feed D	Voltage above nominal value by 198% Van 550	
08/02/2020	08:13:30	95	Voltage Sag Feed D	Voltage level dropped to 89.5% of nominal value Vcn 248	
08/02/2020	08:10:55	219	Voltage Sag Feed B	Voltage level dropped to 89.9% of nominal value Vcn 249	
08/01/2020	23:31:54	490	Voltage Swell Feed D	Voltage above nominal value by 129% Vab 618	
07/31/2020	02:46:21	11	Voltage Swell Feed B	Voltage above nominal value by 174.4% Vbn 483	
07/28/2020	06:56:50	401	Voltage Swell Feed D	Voltage above nominal value by 170% Van 473	
07/13/2020	05:05:05	717	Voltage Swell Feed B	Voltage above nominal value by 183% Vcn 508	

07/12 /2020	09:58:45	562	Voltage Swell Feed B	Voltage above nominal value by 180.1% Vbn 499	
07/11 /2020	21:50:42	188	Voltage Sag Feed D	Voltage level dropped to 82.3% of nominal value Vcn 228	
07/11 /2020	21:48:11	513	Voltage Sag Feed B	Voltage level dropped to 83.0% of nominal value Vcn 230	
07/11 /2020	21:51:10	962	Voltage Sag Feed A	Voltage level dropped to 83.0% of nominal value Vcn 230	mForge nodes down per Jim Long
06/28 /2020	07:17:07	923	Voltage Swell Feed B	Voltage above nominal value by 175.1% Vbn 485	
06/22 /2020	16:08:01	72	Voltage Sag Feed A	Voltage level dropped to 88.1% of nominal value Vbn 244	
06/22 /2020	16:07:41	903	Voltage Sag Feed D	Voltage level dropped to 76.2% of nominal value Vbn 211	
06/22 /2020	16:05:16	738	Voltage Sag Feed B	Voltage level dropped to 82.7% of nominal value Vbn 229	
06/14 /2020	16:09:46	632	Voltage Swell Feed B	Voltage above nominal value by 117.7% Van 326	
06/13 /2020	17:19:25	989	Voltage Swell Feed D	Voltage above nominal value by 246.6% VAN 683	
06/05 /2020	00:28:40	435	Voltage Swell Feed D	Voltage above nominal value by 331.8% Van 919	
05/30 /2020	05:22:27	184	Voltage Swell Feed B	Voltage above nominal value by 175.1% Vbn 485	
05/21 /2020	17:12:43	265	Voltage Swell Feed D	Voltage above nominal value by 214.1% Van 593	
05/21 /2020	08:43:07	501	Voltage Swell Feed D	Voltage above nominal value by 307.2% of nominal value Van 851	
05/19 /2020	15:00:20	3	Voltage Sag Feed A	Voltage Level dropped to 88.3% of nominal value Vca 431	
05/18 /2020	21:09:04	219	Voltage S ag Swell Feed B	Voltage above nominal value by 175.5% Vbn 486	
05/15 /2020	18:24:33	261	Voltage Sag Feed B	Voltage Level dropped to 54.4% of nominal value Vca 435	
5/11 /2020	19:29:01	486	Voltage Swell Feed B	Voltage above nominal value by 183.8% Vbn 509	
5/11 /2020	01:26:30	886	Voltage Swell Feed B	Voltage above nominal value by 175% Van 484	
05/06 /2020	09:17:40	UNK	UNK	"Insight" alert email on Feed A, no accompanying "Onboard" detail email	
05/05 /2020	23:09:11	79	Voltage Swell Feed B	Voltage above nominal value by 241.2% Van 668	
05/05 /2020	15:13:02	446	Voltage Swell Feed B	Voltage above nominal value by 174.7% Vcn 484	
04/29 /2020	11:28:11	16	Voltage Swell Feed B	Voltage above nominal value by 136.5% Van 378	
04/25 /2020	01:09:59	282	Voltage Swell Feed B	Voltage above nominal value by 277.6% Van 769	

04/22 /2020	11:26:23	522	Voltage Swell Feed B	Voltage above nominal value by 150.9% Van 418	
04/19 /2020	19:51:47	416	Voltage Swell Feed B	Voltage above nominal value by 130.4% 226.0% Van 626	
04/18 /2020	10:58:10	736	Voltage Swell Feed B	Voltage above nominal value by 179.4% Vcn 497	
04/15 /2020	17:09:11	993	Voltage Swell Feed B	Voltage above nominal value by 171.1% Van 474	
04/12 /2020	17:37:10	368	Voltage Swell Feed B	Voltage above nominal value by 171.8% Vcn 476	
04/12 /2020	09:50:09	948	Voltage Swell Feed B	Voltage above nominal value by 259.2% Van 700	
04/11 /2020	08:44:25	411	Voltage Swell Feed B	Voltage above nominal value by 268.2% Van 743	
04/10 /2020	11:07:25	645	Voltage Sag Feed B	Voltage Level dropped to 88.9% of nominal value	
04/08 /2020	17:12:50	626	Voltage Sag Feed B	Voltage Level dropped to 91.3% of nominal value Vbn 253	
04/06 /2020	18:19:45	300	Voltage Swell Feed B	Voltage above nominal value by 257.4% Van 713	
04/06 /2020	10:38:40	541	Voltage Swell Feed B	Voltage above nominal value by 186.6% 296.4% Van 821	
04/05 /2020	09:48:46	787	Voltage Swell Feed D	Voltage above nominal value by 118.3% 205.1% Van 568	
04/04 /2020	03:36:51	273	Voltage Swell Feed B	Voltage above nominal value by 191.0% Van 529	
03/28 /2020	18:49:10	699	Voltage Sag Feed B	Voltage level dropped by to 89.9% of nominal value Van 249	
03/28 /2020	00:35:48	904	Voltage Swell Feed B	Voltage above nominal value by 249.5% Van 691	
03/25 /2020	10:16:28	513	Voltage Swell Feed B	Voltage above nominal value by 174.3% Vcn 483	
03/23 /2020	06:54:20	916	Voltage Sag Feed D	Voltage level dropped to 89.5% of nominal value Vcn 248	
03/23 /2020	06:52:24	893	Voltage Sag Feed B	Voltage level dropped to 87.7% of nominal value Vcn 243	
03/23 /2020	06:54:42	629	Voltage Sag Feed A	Voltage level dropped to 85.9% of nominal value Vcn 238	
03/22 /2020	00:47:33	956	Voltage Swell Feed B	Voltage above nominal value by 165.6% Van 477	
03/21 /2020	03:30:27	724	Voltage Swell Feed B	Voltage above nominal value by 182.7% Vcn 506	
03/20 /2020	13:22:01	205	Voltage Swell Feed B	Voltage below above nominal value by 47.7% 173.3%	
03/18 /2020	17:41:16	320	Voltage Swell Feed B	Voltage below above nominal value by 99.7% 172.9% Van 479	
03/17 /2020	23:03:54	11	Voltage Swell Feed B	Voltage above nominal value by 229.6% Van 636	

03/16 /2020	04:13:51	435	Voltage Swell Feed B	Voltage above nominal value by 173% Vbn 478	
03/11 /2020	21:06:50	876	Voltage Swell Feed B	Voltage above nominal value by 265.7% Van 736	
03/09 /2020	11:58:43	398	Voltage Sag Feed A	Voltage level dropped to 84.5% of nominal value Vbn 234	
03/09 /2020	11:56:37	938	Voltage Sag Feed B	Voltage level dropped to 82.3% of nominal value Vbn 225	
03/09 /2020	11:58:27	30	Voltage Sag Feed D	Voltage level dropped to 82.7% of nominal value Vbn 229	
03/08 /2020	13:19:53	274	Voltage Swell Feed B	Voltage above nominal value by 174.7% Van 484	
03/01 /2020	19:46:46	71	Voltage Swell Feed B	Voltage above nominal value by 135.38% Van 375	
02/28 /2020	04:50:25	773	Voltage Swell Feed B	Voltage above nominal value by 265.3% Van 735	
02/27 /2020	22:08:22	2	Voltage Swell Feed B	Voltage above nominal value by 104.38 % Van 501	
02/24 /2020	22:38:17	221	Voltage Swell Feed B	Voltage above nominal value by 238.9% Van 662	
02/24 /2020	04:13:13	652	Voltage Swell Feed B	Voltage above nominal value by 119% Vab 569	
02/18 /2020	01:15:26	266	Voltage Swell Feed B	Voltage above nominal value by 256.3% Van 710	
02/13 /2020	18:06:13	739	Voltage Swell Feed B	Voltage above nominal value by 172.20% Vbn 477	
02/02 /2020	17:01: 54	58	Voltage Swell Feed B	Voltage above nominal value by 152.0% Van 421	
01/29 /2020	03:08:43	211	Voltage Swell Feed D	Voltage above nominal value by 205.4% Van 569	
01/28 /2020	05:19:04	241	Voltage Swell Feed B	Voltage above nominal value by 174.7% Van 484	
01/27 /2020	18:47:35	222	Voltage Swell Feed D	Voltage above nominal value by 147.6%, Van 409	
01/24 /2020	02:30:05	998	Voltage Swell Feed B	Voltage above nominal value by 184.1% Vbn 510	
01/23 /2020	10:57:41	509	Voltage Swell Feed C	Voltage above nominal value by 134.7% Van 373	
01/23 /2020	09:49:29	141	Voltage Swell Feed C	Voltage above nominal value by 268.2% Van 743	
01/19 /2020	08:06:18	863	Voltage Swell Feed C	Voltage above nominal value by 325.3% Van 901	
03/23 /2020	16:54:25	484	Voltage Swell Feed C	Voltage above nominal value by 113.72% Van 315	
01/16 /2020	21:14:33	940	Voltage Swell Feed B	Voltage above nominal value by 182.6% Vbn 506	
01/12 /2020	19:05:04	646	Voltage Swell Feed B	Voltage above nominal value by 172.5% Van 478	
01/11 /2020	07:39:20	863	Voltage Swell Feed B	Voltage above nominal value by 252.3% Van 699	

01/10/2020	20:21:29	395	Voltage Swell Feed B	Voltage above nominal value by 201.8% Van 559	
01/10/2020	01:58:32	692	Voltage Swell Feed B	Voltage above nominal value by 199.6% Van 553	
01/09/2020	07:48:15	509	Voltage Swell Feed B	Voltage above nominal value by 175.5% Vbn 486	
01/07/2020	19:09:06	940	Voltage Swell Feed B	Voltage above nominal value by 166.3 173.3% Van 433 Vbn 480	
01/06/2020	17:26:12	102	Voltage Swell Feed B	Voltage above nominal value by 196.7% Van 545	
01/05/2020	22:41:00	222	Voltage Swell Feed B	Voltage above nominal value by 119.9% Van 332	
12/26/2019	15:16:44	862	Voltage Swell Feed B	Voltage level above nominal value by 404 175.1% Vcn 485	
12/23/2019	15:32:21	576	Voltage Swell Feed B	Voltage level above nominal value by 437.2 248.7% Van 659	
12/19/2019	13:00:07	855	Voltage Swell Feed B	Voltage above nominal value by 119.9% Van 332	
12/17/2019	16:29:46	180	Voltage Swell Feed B	Voltage above nominal value by 172.5% Vcn 478	
11/16/2019	8:00:00	2 hrs	Transformer Work	Replace defective transformer temperature controller TX-5C	No impact on any production being feed from transformer TX-5C - Complete
11/28/2019	02:57:32	757	Voltage Swell Feed D	Voltage above nominal value by 199.3% Van 552	
11/21/2019	14:02:08	317	Voltage Swell Feed B	Voltage above nominal value by 172.6% Vcn 478	
11/17/2019	03:05:44	15	Voltage Swell Feed B	Voltage above nominal value by 184% Vbn 484	
11/16/2019	18:31:10	331	Voltage swell Feed B	Voltage above nominal value by 174.0% Van 482	
11/13/2019	21:43:53	688	Voltage Swell Feed B	Voltage above nominal value by 188.1% Van 521	
11/10/2019	14:39:20	560	Voltage Swell Feed B	Voltage above nominal value by 170.7% Vbn 473	
11/07/2019	12:25:59	649	Voltage Sag Feed A	Voltage level dropped to 89.9% of nominal value. Van 249	
11/07/2019	03:18:21	891	Voltage Swell Feed B	Voltage above nominal value by 173.2% Vbn 480	
11/04/2019	16:56:57	522	Voltage Swell Feed D	Voltage level above nominal value by 326.3% Van 904	
11/03/2019	11:29:06	568	Voltage Swell Feed D	Voltage level above nominal value by 133.2% Van 369	
11/03/2019	05:35	541	Voltage Swell Feed B	Voltage above nominal value by 173.6% Van 481	
11/01/2019	16:26 16:12:33	883	Voltage Swell Feed B	Voltage level above nominal value by 420.8 145.1% Van 580 Van 402	
11/01/2019	03:29:46	12	Voltage Swell Feed B	Voltage level above nominal value by 278.7% Van 772	
10/31/2019	21:27:37	979	Voltage Swell Feed B	Voltage level above nominal value by 173.2% Vbn 480	

10/31 /2019	04:55:49	971	Voltage Swell Feed B	Voltage level above nominal value by 179.8% Vbn 498	
10/26 /2019	22:08:20	144	Voltage Swell Feed B	Voltage level above nominal value by 172.2% Vcn 477	
10/21 /2019	17:04	80	Voltage Swell Feed B	Voltage level dropped to 90.6% of nominal value. Van 435	
10/21 /2019	14:41: 13 33	335	Voltage Sag Feed D	Voltage level dropped to 88.5% of nominal value. Vca 425	
10/21 /2019	14:42:29	335	Voltage Sag Feed D	Voltage level dropped to 88.5% of nominal value. Vcn 245	
10/13 /2019	03:52:29	296	Voltage Swell Feed B	Voltage level above nominal value by 170.1% Vbn 473	
10/12 /2019	04:41:18	660	Voltage Swell Feed D	Voltage level above nominal value by 111.6% Van 309	
10/11 /2019	22:24:55	264	Voltage Swell Feed B	Voltage level above nominal value by 171.5% Vcn 475	
10/11 /2019	10:31:17	645	Voltage Sag Feed B	Voltage level dropped to 82% of nominal value. Vcn 229	
10/11 /2019	10:32:21	509	Voltage Sag Feed A	Voltage level dropped to 76% of nominal value. Vcn 212	
10/11 /2019	10:32:23	427	Voltage Sag Feed D	Voltage level dropped to 90% of nominal value. Vcn 250	
10/08 /2019	09:57:59	942	Voltage Swell Feed B	Voltage level above nominal value by 170% Van 428	
10/05 /2019	04:39:39	697	Voltage Swell Feed B	Voltage level above nominal value by 174.7% Vbn 484	
10/03 /2019	08:04:14	584	Voltage Swell Feed C	Voltage level above nominal value by 135%. Vcn 375	
9/24 /2019	2:14:46	673	Voltage Swell Feed B	Voltage level above nominal value by 173%. Van 479	
9/23 /2019	23:41:55	346	Voltage Swell Feed B	Voltage level above nominal value by 150% Vca 722	
9/20 /2019	21:17:05	464	Voltage Swell Feed D	Voltage level above nominal value by 194.375% Vab 933	
9/15 /2019	11:46:41	13	Voltage Swell Feed C	Voltage level above nominal value by 135.74% Van 376	
9/15 /2019	10:26:28	108	Voltage Sag Feed A	Voltage level dropped to 89.53% of nominal value Vcn 248	
9/15 /2019	10:25:24	850	Voltage Sag Feed B	Voltage level dropped to 90.25% of nominal value Vcn 250	
9/15 /2019	10:26:24	339	Voltage Sag Feed D	Voltage level dropped to 85.20% of nominal value Vcn 236	
9/15 /2019	10:28:11	145	Voltage Sag Feed C	Voltage level dropped to 87.73% of nominal value Vcn 243	
09/14 /2019	05:00:34	759	Voltage Swell Feed C	Voltage level above nominal value by 136.1% Vbn 377	
09/07 /2019	02:13:07	968	Voltage Swell Feed B	Voltage level above nominal value by 183.4% Van 508	
08/20 /2019	08:30:40	326	Voltage Swell Feed B	Voltage level above nominal value by 124% Van 595	

08/20 /2019	20:17:31	245	Voltage Swell Feed B	Voltage level above nominal value by 264.6% Vca 733	
08/20 /2019	11:43:05	75	Voltage Swell Feed D	Voltage level above nominal value by 161% Van 773	
08/20 /2019	11:10:39	19	Voltage Sag Feed D	Voltage level dropped to 90% of nominal value Vbn 250	
08/20 /2019	11:09:45	949	Voltage Sag Feed B	Voltage level dropped to 87% of nominal value Vbn 242	
08/20 /2019	11:10:35	106	Voltage Sag Feed A	Voltage level dropped to 77% of nominal value Vbn 213	
08/14 /2019	04:55:47	464	Voltage Swell Feed B	Voltage Level above nominal value by 404.25% 175% Vbn 486	
08/13 /2019	20:29:15	901	Voltage Swell Feed B	Voltage Level above nominal value by 173% Vbn 480	
08/07 /2019	09:32:11	360	Voltage Swell Feed B	Voltage Level above nominal value by 72% 124% Van 344	
08/03 /2019	07:39:58	890	Voltage Sag Feed D	Voltage Level above nominal value by dropped to 89.1% of nominal value Van 247	
07/20 /2019	20:57 20:57-2 0:49	759	Voltage Swell Feed B	Voltage Level above nominal value by 155% 225% Van 624	
07/05 /2019	12:48:40	464	Voltage Sag Feed B	Voltage level dropped to 75.0% of nominal value Vcn 205	BW cabinets EPO'd
07/05 /2019	12:49:12	386	Voltage Sag Feed D	Voltage level dropped to 72.6% of nominal value Vcn 201	BW cabinets EPO'd
07/05 /2019	12:49:12	65	Voltage Sag Feed A	Voltage level dropped to 89.2% of nominal value Vcn 247	BW cabinets EPO'd, mForge lost GPFS
07/02 /2019	15:19: 59	986	Voltage Swell Feed C	Voltage level above nominal value by 133% Vbn 370	
6/30 /2019	16:22:22	14	Voltage Sag Feed C	Voltage level dropped to 76.2 % of nominal value Van 211	
6/30 /2019	16:11:19	114	Voltage Sag Feed A	Voltage level dropped to 90.3% of nominal value Van 250	some mForge jobs dropped, VM Farm issues.
6/30 /2019	16:11:16	303	Voltage Sag Feed D	Voltage level dropped to 75.5 % of nominal value Vbn 209	
6/30 /2019	16:10:42	6	Voltage Sag Feed B	Voltage level dropped to 77.6% of nominal value Vbn 215	
6/29 /2019	14:28:00	625	Voltage Sag	Voltage level dropped to 85.56% of nominal value Vcn 237	
6/22 /2019	12:22:17	884	Voltage Swell Feed C	Voltage level above nominal level by 189% Vca 911	
6/19 /2019	03:03:08	28	Voltage Swell Feed B	Voltage level above nominal level by 172.6% Van 478	
6/15 /2019	06:13:08	549	Voltage Swell Feed B	Voltage level above nominal level by 175% Vcn 485	
		716	Voltage Sag Feed D	Voltage level dropped to 76.9% of nominal value Vbn 213	
		124	Voltage Sag Feed A	Voltage level dropped to 76.2% of nominal value Vbn 211	
		381	Voltage Sag Feed B	Voltage level dropped to 82.3% of nominal value Vbn 229	

		838	Voltage Swell Feed B	Voltage level above nominal value by 197% Van 545	
		137	Voltage Sag Feed A	Voltage level dropped to 90.4% of nominal value Vab 434	
		970	Voltage Sag Feed D	Voltage level dropped to 89.8% of nominal value Vab 431	
05/23 /2019	05:28:39	191	Voltage Sag Feed D	Voltage level dropped to 89.5% of nominal value Van 248	Non-reported
05/23 /2019	05:28:41	366	Voltage Sag Feed A	Voltage level dropped to 89.5% of nominal value Van 248	Non-reported
05/21 /2019	22:01:36	734	Voltage Swell Feed C	Voltage level above nominal value by 297% Van 822	Non-reported
05/19 /2019	07:50:21	33	Voltage Swell Feed C	Voltage level above nominal value by 129% Van 358	Non-reported
05/17 /2019	8:32:17	334	Voltage Swell Feed C	Voltage level above nominal value by 120% Van 334	Non-reported
05/14 /2019	06:48:37	413	Voltage Swell Feed B	Voltage level above nominal value by 167% Van 465	Non-reported
05/13 /2019	12:58:28	303	Voltage Swell Feed C	Voltage level above nominal value by 218.4% Van 605	Non-reported
05/11 /2019	06:28:46	676	Voltage Swell Feed B	Voltage level above nominal value by 312% Van 867	This is a very large voltage swell I reached out to S&F for possible cause.
05/09 /2019	05:27:27	664	Voltage Swell Feed C	Voltage level above nominal value by 153.9% Van 413	Non-reported
05/09 /2019	02:00:09	593	Voltage Swell Feed B	Voltage level above nominal value by 177 % Van 479	Non-reported
04/11 /2019	23:04:48	391	Voltage Sag Feed C	Voltage level dropped to 88.8% of nominal value Vcn 246	Non-reported
04/11 /2019	23:04:31	205	Voltage Sag Feed C	Voltage level dropped to 88.8% of nominal value Vcn 246	Non-reported
04/11 /2019	24:05:32	584	Voltage Sag Feed D	Voltage level dropped to 88.8% of nominal value Vcn 246	Non-reported
04/11 /2019	24:05:15	399	Voltage Sag Feed D	Voltage level dropped to 89% of nominal value Vcn 247	Non-reported
04/11 /2019	13:03:54	782	Voltage Swell Feed C	Voltage level 119% of nominal value	Non-reported
03/19 /2019	05:00:23 (03:39:43)	791	Voltage Sag Feed D	Voltage level dropped to 90.6% of nominal value Vbn 251 Vab 434	Non-reported
03/10 /2019	07:16:44	2	Voltage Sag Feed A	Voltage level dropped to 86.2% of nominal value Vbn 23	
03/10 /2019	07:16:43	985	Voltage Sag Feed A	Voltage level dropped to 89.5% of nominal value Vbc 430	
03/10 /2019	07:16:43	967	Voltage Sag Feed A	Voltage level dropped to 87.7% of nominal value Vcn 243 Vca 430	
03/10 /2019	7:21:23	811	Voltage Sag Feed C	Voltage level dropped to 81.5% of nominal value Vbn 226 Vab 418	

03/10 /2019	7:21:23	777	Voltage Sag Feed C	Voltage level dropped to 86.8% of nominal value Vbc 421 Vca 417	
03/10 /2019	7:21:23	760	Voltage Sag Feed C	Voltage level dropped to 89.9% of nominal value Vcn 249	
03/10 /2019	7:16:50	0	Voltage Sag Feed D	Voltage level dropped to 81.2% of nominal value Vbn 225 Vab 421	
03/10 /2019	7:16:49	966	Voltage Sag Feed D	Voltage level dropped to 87.2% of nominal value Vbc 419	
03/10 /2019	7:16:49	948	Voltage Sag Feed D	Voltage level dropped to 89.5% of nominal value Vcn 248 V ca 430	
03/10 /2019	7:14:08	723	Voltage Sag Feed B	Voltage level dropped to 86% of nominal value Vbn 238 Vab 433	
03/10 /2019	7:14:08	688	Voltage Sag Feed B	Voltage level dropped to 86.3% of nominal value Vcn 239 Vbc 433 Vca 425	
03/09 /2019	22:19:43	537	Voltage Sag Feed C	Voltage level dropped to 67.87% of nominal value Vcn 188 Vbc 368 Vca 370	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
03/09 /2019	22:19:37	942	Voltage Sag Feed C	Voltage level dropped to 89% of nominal value Vcn 247 Vca 433 Vbc 362	
03/09 /2019	22:19:37	523	Voltage Sag Feed C	Voltage level dropped to 90.2% of nominal value Vcn 250	
03/09 /2019	22:19:37	505	Voltage Sag Feed C	Voltage level dropped to 73.3% of nominal value Van 203 Vab 390 Vca 388	
03/09 /2019	22:14:56	346	Voltage Sag Feed A	Voltage level dropped to 75.8% of nominal value Vcn 210 Vbc 398 Vca 391	
03/09 /2019	22:14:55	746	Voltage Sag Feed A	Voltage level dropped to 88.5% of nominal value Vcn 234 Vbc 427 Vca 425	
03/09 /2019	22:14:50	313	Voltage Sag Feed A	Voltage level dropped to 76.5% of nominal value Vcn 212 Vab 395 Vca 402	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
03/09 /2019	22:12:21	206	Voltage Sag Feed B	Voltage level dropped to 83% of nominal value Vcn 230 Vbc 421 Vca 417	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure

03/09 /2019	22:12:20	623	Voltage Sag Feed B	Voltage level dropped to 74% of nominal value Vcn 205 Vbc 390 Vca 389	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
03/09 /2019	22:12:15	189	Voltage Sag Feed B	Voltage level dropped to 71.8% of nominal value Van 199 Vab 382 Vca 379	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
03/09 /2019	22:15:03	264 281 864	Voltage Sag Feed D	Voltage level dropped to 67.14% of nominal value Vcn 246 Vca 432 Vbc 361 Vcn 186 Vbc 366 Vca 367	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
03/09 /2019	22:14:57	831	Voltage Sag Feed D	Voltage level dropped to 74% of nominal value Van 205 Vab 395 Vca 388 Vcn 250	Lsst and Forge reported servers rebooting Facility fire alarm panel power supply failure
01/20 /2019	22:10:55	586 586 604 817 817	Voltage Sag Feed B	Voltage level dropped to 87.7% of nominal value Van 243 Vca 432 Vab 435 Van 243 Vab 429	Non-reported
01/20 /2019	22:13:16	154 172 189 385 403 420	Voltage Sag Feed A	Voltage level dropped to 88% of nominal value Van 244 Vca 422 Vab 430 Van 248 Vab 424 Vca 431	Non-reported
01/20 /2019	22:14:02	645	Voltage Sag Feed D	Voltage level dropped to 80.1% of nominal value Van 22 Vab 409 Vca 413	Non-reported
01/20 /2019	22:13:22	414 414 414	Voltage Sag Feed D	Voltage level dropped to 80.8% of nominal value Van 224 Vab 428 Vca 399	Non-reported
01/20 /2019	22:17:28	517 517 517	Voltage Sag Feed C	Voltage level dropped to 80.8% of nominal value Van 224 Vab 412 Vca 414	Non-reported
01/20 /2019	22:17:28	287 287 287	Voltage Sag Feed C	Voltage level dropped to 81.2% of nominal value Van 225 Vab 428 Vca 398	Non-reported

01/09 /2019	10:42:17	244	Voltage sag Feed C	Voltage level dropped to 88% of nominal Vbn 244	Facility power wide impact
01/09 /2019	10:38:18	456	Voltage sag Feed D	Voltage level dropped to 88% of nominal Vbn 244 Vbc 428	Facility power wide impact
01/09 /2019	10:00:35	351	Voltage sag Feed A	Voltage level dropped to 89.5% of nominal Vbn 248 Vab 430	Blue waters mForge and racks lost power and caused production interruptions.
01/09 /2019	10:17:59	N/A	Low voltage	mForge rack 5 UPS 01 switched to battery	UPS on battery, power outage on feed C
01/09 /2019	09:58:12	890	Voltage sag Feed B	Voltage level dropped to 89.5% of nominal Vbn 248 Vab 430	Blue waters mForge and racks lost power and caused production interruptions.
12/31 /2018	00:35:17	816	Voltage sag Feed C	Voltage level dropped to 88.4% of nominal Vcn 246	
12/31 /2018	03:31:26	110	Voltage Sag Feed A	Voltage level dropped to 88.4% of nominal Vcn 245	
12/27 /2018	13:04:48	527 545 977	Voltage Sag Feed A	Voltage level dropped to 88.4% of nominal Vab 423 Vbn 245 Van 246	This incident was caused by human error during main substation protective relays upgrade which accidentally tripped the feeder to NPCF
12/27 /208	13:00:14	382	Voltage sag Feed C	Voltage level dropped to 79% of nominal Vca 382	This incident was caused by human error during main substation protective relays upgrade which accidentally tripped the feeder to NPCF
12/21 /2018	10:22:17	157 157 157	Voltage sage Feed D	Voltage level dropped to 85.6% of nominal Vbn 237 Vab 431 Vbc 424	Non-reported
12/21 /2018	10:22:09	806 806 806 857	Voltage sage Feed A	Voltage level dropped to 70.7% of nominal Vbn 196 Vab 370 Vbc 382 Van 248	Non-reported
12/21 /2018	10:26:00	629 629 629 664	Voltage sage Feed C	Voltage level dropped to 71.5% of nominal Vbn 198 Vab 373 Vbc 384 Van 249	Non-reported
12/21 /2018	10:20:02	244	Voltage sage Feed B	Voltage level dropped to 81% of nominal Vbn 225 Vab 413 Vbc 410	Non-reported
12/21 /2018	10:19:07	730	Voltage sage Feed D	Voltage level dropped to 85% of nominal Vbn 236 Vab 428 Vbc 425	Non-reported
12/21 /2018	10:16:52	802 819 819	Voltage sage Feed B	Voltage level dropped to 91% of nominal Vbn 250 Vab 413 Vbc 411	Non-reported

12/21/2018	10:19:00	382	Voltage sage Feed A	Voltage level dropped to 71% of nominal Vbn 197 Vab 366 Vbc 388	LSST reported power problem in there system
12/21/2018	10:22:51	188	Voltage sage Feed C	Voltage level dropped to 89% of nominal Vbn 247 Vab 367 Vbc 391	LSST reported power problem in there system
12/21/2018	10:36	N/A	UPS 01 under voltage	Under voltage condition was detected by mforge rack 4 ups	Non-reported
12/18/2018	11:44:02	568	Voltage Sag on Feed B	Voltage level dropped to 83.3% of nominal Vbn 231 Vab 417 Vbc 425	Non-reported
12/18/2018	11:46:10	451	Voltage sag feed D	Voltage level dropped to 86.6% of nominal Vbn 240 Vbc 429 Vab 425	Non-reported
12/18/2018	11:46:03	756	Voltage sag Feed A	Vbn level dropped to 72 % of nominal Vbn 199 Vab 375 Vbc 388	LSST reported production equipment down due to the power event; Industry systems were not affected
12/18/2018	11:49:59	954	Voltage sage feed C	Voltage level dropped to 72% of nominal Vbn 200 Vab 375 Vbc 389 Van 249	LSST reported production equipment down due to the power event; Industry systems were not affected
12/18/2018	12:02:40	N/A	Power interruption	Siemens BMS report power interruption and transfer to backup generator	Non-Reported
12/18/2018	12:02	N/A	Low Voltage and low frequency	mForge rack UPS 1 reported low input voltage condition	Non-reported
12/11/2018	18:14:28	823	Voltage Sag Feed B	Van 236 Vbn 225 Voltage at 81% of nominal Vcn 246 Vab 390 Vbc 408 Vca 427	Non-reported
12/11/2018	12:27:01	747	Voltage Sag event Feed C	Van 228 Volage at 82% of nominal Vbn 248 Vab 403 Vca 417	Trouble was report by Condo rack T86, please check your production equipment at NPCF.
12/11/2018	12:39:27	N/A	mForge UPS 1 Rack 5 UPS Alarm	Power waveform distorted (under voltage)	Please check mforge for possible trouble Feed C
12/01/2018	16:55:46	451	Voltage Sag Feed B	Voltage sag to 88.9% of nominal voltage for 207 msec Van 246 Vcn 248 Vca 417	Non-reported

12/01 /2018	17:01:36	52	Voltage Sag Feed C	Voltage sag to 88% of nominal voltage for 52 msec Van 244 Vcn 248 Vca 415	Non-reported
12/01 /2018	16:57:55	207	Voltage Sag Feed A	Voltage sag to 89.2% of nominal voltage for 207 msec Van 247 Vca 425 Vcn 248	Non-reported
11/18 /2018	13:47:34	558	Voltage Swell Feed D	Voltage swell 32% above nominal Van 484 Vab 634 Vca 635	Non-reported
11/10 /2018	4:27:42	493 493 493 511 511 511	Voltage sag Van 249 Vbn 249 Vab 414 Vbc 389 Vca 378	Voltage sag on all feeder feeder A, B, C and D to 62.3% of normal	Reported equipment rebooting
11/05 /2018	4:49:42	45	Voltage swell Van 526 Vab 639 Vca 677	Voltage swell as high as 90% on feed B	Non reported
11/05 /2018	04:54:08	714	Voltage Swell Van 377 Vbn 347 Vcn 343	Voltage swell as high as 36% on feeder C	Non reported
11/04 /2018	02:08:18	907	Voltage sag Vca 433	9.7% voltage sag on Feed A	Non reported
10/15 /2018	06:23:00 (no day light saving)	801	voltage Sag Vcb 229 Van 224 Vbc 414 Vca 400	Power tranformer servering the Atkins building shorted causing power outage on Ameren Blue power line to the campus substation witch affected most of campus buildings power supply.	At 07:33:26 a transformer failed on campus caused one Ameren power line feed to campus substation to open resulting in a single power feed to the substation, the event was not detected by NPCF feeder D meter and substation switchgear MP02 circuit breaker (D feed) feeder relay, below is the sequence of events: <ul style="list-style-type: none"> • 07:33:26 Power loss of Ameren Blue power line to MP01, MP02 switchgears feeding Feeders B and D (Ameren blue power line) • Under voltage conditions were detected on the on both switchgears MP01 and MP02 serving feeders B and D • Instantaneously switchgear tie circuit breakers closed to Ameren red power line • Now Feed A is same as B and C is same as D (all on Ameren red power line) • Meter on feeder C detected 18 % under voltage due to load changes • Event was not detected at the switchgear MP02 relay feeding D feeder to NPCF and it was not detected by NPCF feeder D meter. • Three rows, 72 Blue Waters compute cabinets on feeder D lost power • At 14:30:01 power was restored to Ameren blue line • Switchgear tie breakers opened, power back to normal feeders' lineup. • NCSA building has only one power feed Ameren Blue and switched to Ameren red during the event.
09/28 /2018	15:52:54 15:52:59	684 797	Voltage sag Feed C	Voltage Level Vca 432	Non-reported
09/19 /2018	02:31:46	401	Voltage Swell Feeder D	Van 322	Non-Reported
8/29 /2018	14:27:58	524 524	Voltage Swell D	Van 345 Vab 538	Non-Reported

8/17 /2018	22:17:09	443 443 443	Voltage Swell Feeder D	Van 625 Vab 746 Vca 713	Non-reported
08/17 /20018	00:29:27	532 532 549	Voltage Sag Feeder A	Van 243 Vab 436 Vca 431	Non-Reported
08/17 /2018	00:28:03	654 672	Voltage Sag Feeder B	Van 244 Vca 436	Non-Reported
08/16 /2018	00:31:59	446	Voltage Sag Feeder c	Van 249	Non-Reported
08/16 /2018	23:59:05	730	Voltage Sag Feeder C	Van 250	Non-Reported
08/16 /2018	23:55:09	245 431 434	Voltage Sag Feeder B	Van 245 Vca 431 Vab 434	Non-Reported
08/07 /2017	0:30:55	796 796 796	Voltage Swell Feeder D	Van 618 Vab 713 Vca 728	Non-reported
08/06 /2018	13:53:28	861 861 861	Voltage Sag Feeder A	Van 246 Vcn 229 Vca 386	Non-reported
08/03 /2018	17:14:56	787	Voltage Swell Feeder D	Van 370 Vab 534	Non-reported
07/28 /2018	02:20:55	305	Voltage Sag Feeder A	Pickup Van 249	Non-reported
07/11 /2018	12:28:31	66	Voltage swell Fee der D	Van 545 Vab 650 Vca 690	Non-Reported
07/03 /2018	4:35:11	289	Voltage swell Feeder B	Van 451 Vbn 490 Vcn 498	Non-Reported The email notification received via email 11 minutes after event occurrence.
06/22 /20018	13:20:02	222 410 411	Voltage Sag Feeder A	Voltage level Vbn 222 Vab 410 Vbc 411	Non-reported
06/22 /20018	13:20:05	237 430 424	Voltage Sag Feeder D	Voltage level Vbn 237 Vab 476 Vbc 424	Non-reported
06/22 /20018	13:21:56	243 431 424	Voltage Sag Feeder C	Voltage level Vbn 243 Vbc 431 Vab 424	Non-reported
06/22 /20018	13:18:58	136 136 187	Voltage Sag Feeder B	Voltage level Vbn 246 Vbc 436 Vab 437	Non-reported
6/25 /2018	8 am	one week	non critical equipment maintenan ce	VFD preventive maintenance	NPCF office area may experience temperature rise for as short period of time.

06/12 /2018	03:41:46	65 65 83	Power loss Feeder A	<ul style="list-style-type: none"> Site Feeder A experienced Unknown event (still investigating) Power monitoring meters are unable to send alarms Van 173.48 V Vcn 175.70 V Vbn 189.36 V 	<p>Blue Waters: 72 cabinet lost power all on feeder A and the entire system was rebooted.</p> <p>iForge: Lost about 90 nodes.</p> <p>mForge: reported trouble with some nodes (50% of the nodes were lost)</p> <p>mForge: gpfs was impacted and reported an outage.</p> <p>The UPS and the PDUs on feeder A did not detect any problems.</p> <p>Confirmed by F&S, the voltage dropped by 37.37% for 65 milli second which is considered an outage.</p> <p>The cause: Utility transmission lines effected by the weather/storms</p> <p>F&S are investigating why meters alerts are not being sent out, possibly filtered by spam network filters.</p>
06/04 /2018	16:00:00	17 hours	power loss to rack EE133 mForge	Circuit breaker tripped on closing panel PP1A dead cover	Loss of power to feed A to mForge rack EE133, no production loss and it is a save due to power diversity from a different feed, it took a long time to discover to lack of power monitoring.
3/09 /2018	12:41:51	214 400 400	Voltage Sag Feeder C	Van 214 Vab 400 Vca 400	Non-reported 22 74% below nominal
3/09 /2018	12:41:00	3 3 21	Voltage Sag Feed er D	Van 237 Vab 423 Vca 432	Non-reported 11.8 % below nominal
3/09 /2018	12:40:56	171	Voltage Sag Feed er A	Van 211 Vab 389 Vca 402	Non-reported 18.9 % below nominal
3/09 /2018	12:40:29	667 667 677	Voltage Sag Feed er B	Van 236 Vab 418 Vca 434	Non-reported 12.9 % below nominal
02/19 /2018	12:08:09	775 775 792	Voltage Sag Feeder C		Non-reported 14.3% below nominal
02/19 /2018	12:08:04	178 178 178	Voltage Sag Feeder C	Van 247 Vcn 244 Vca 408	Non-reported 15% below nominal
02/19 /2018	12:07:20	564	Voltage Sag Feeder A	Vca 431	Non-reported 10.5% below nominal
02/19 /2018	12:07:14	964	Voltage Sag Feeder A	Vca 430	Non-reported 10.4% below nominal
	12:06:54	434	Voltage Sag	Vca 434	Non-reported
	12:06:59	430	Feerer A	Vca 430	10.4% below nominal
	11:45:42	384 384 384	Voltage Sag Feeder C	Van 246 Vcn 244 Vca 408	Non-reported 15 % below nominal
	11:44:53	189	Voltage Sag Feeder A	Vca 429	Non-reported 9.79 % below nominal
		352	Voltage Sag Feeder B	Vca	Non-reported 9.79 % below nominal
02/19 /2018		896 896 896	Voltage Sag Feeder C	Van 246 Vcn 243 Vca 407	Non-reported 15.2 % below nominal

02/19 /2018	10:15:32	802	Voltage Sag Feeder A	Vca 430	Non-reported 10.41% below nominal
02/19 /2018		963	Voltage Sag Feeder B	Vca 430	Non-reported 10.41% below nominal
02/04 /2018	13:07:35	476	Voltage Sag Feeder B	Vca 428	Non-reported 10.8% below nominal
02/04 /2018	13:008: 24	185	Voltage sag Feed C	Van 245 Vcn 242 Vca 403	Non-reported 16% blow nominal
02/04 /2018	13:07:52	564	Voltage sag Feed A	Vca 247	Non-reported 11 % below nominal
02/01 /2018	08:40:16	894 894 894	Voltage Swell Feed C	361 331 332	30% above 277 Volts Non-reported
02/01 /2018	4:39:27	716 716 716	Voltage Swell Feed C	360 331 327	29.9 % above 277 Volts
01/24 /2018	17:16:59	508 925 975 108 175 342	Voltage Swell Feeder A	Vbn 289 Vbc 500 Vca 500 Vab 501 Van 289 Vcn 289	Swell level is 4.3% above nominal
01/21 /2018	20:44:20	543 543 543	Voltage Sag Feed A	Vcn 254 Vbc 454 Vca 447	Sag level at 8.3% Non-reported
01/21 /2018	20:44:49	691 691	Voltage Sag Feed C	Vcn 259 Vca 452	Sag level at 6.5% Non-reported
01/04 /2018	15:24:49	192 192 192 210	Voltage Sag Feed A	Vcn 219 Vbc 408 Vca 404 Vbn 251	Sag level at 15.8% Non-reported
01/04 /2018	15:24:49	789 789 789	Voltage Sag Feed D	Vcn 237 Vbc 428 Vca 429	Sag level at 10.8% Non-reported
01/04 /2018	15:25:07	266 226 226 244	Voltage Sag Feed C	Vcn 252 Vbc 448 Vca 450 Vbn 249	Sag level at 6.67% Non-reported

01/01 /2018	15:42:50	627 627 627 644	Voltage Sag Feed B	Vcn 246 Vbc 438 Vca 445 Vbn 258	Sag level at 8.75% Non-reported
12/19 /2017	8:31:01	852 852 852 852	Voltage sag feed C	Vbn 248 Vab 447 Vbc 434 Vcn 261	Sag level at 9.58% Non-reported
12/19 /2017	8:30:57	449 499 517	Voltage sag feed D	Vbn 258 Vbc 447 Vba 451	Sag level at 6.87% Non-reported
12/19 /2017	8:30:49	990 990 990	Voltage sag feed A	Vab 439 Vbc 427 Vbn 242 Vcn262	Sag level at 11.04% Non-reported
12/19 /2017	8:30:55	193 193	Voltage sag feed B	Vbn 257 Vbc 447	Sag level at 6.87% Non-reported
12/16 /2017	9:53:37	31 31 31	Voltage sag feed A	Van 255 Vcn 257 Vca 437	Sag level at 8.95% Non-reported
12/14 /2017	5:27:25	825 91 91	Voltage sag feed A	Vab 445 Vbc 451 Vca 449	Sag level at 7.29% Non-reported
12/14 /2017	5:27:27	429 695 695	Voltage sag Feed C	Vab 450 Vbc 452 Vca 450	Sag level at 6.25% Non-reported
12/12 /2017	12:00	Change meters threshold to 94%			Sag level at 6%
12/10 /2017	14:32:09	851 851 868 851	Voltage sag Feed A	Vbc 455 Vca 451 Van 264 Vcn 256	Non-reported
12/10 /2017	14:29:10	960 960 960 960	Voltage sag Feed B	Van 266 Vcn 254 Vbc 456 Vca 444	Non-reported
12/10 /2017	14:35:57	231 231 231 249	Voltage Sag Feed C	Vcn 250 Vbc 448 Vca 445 Van 265	Non-reported
12/10 /2017	14:32:57	981 981 981 998	Voltage Sag Feed D	Vcn 256 Vbc 458 Vca 447 Van 266	Non-reported

12/08 /2017	8:59:06	416	Voltage sag Feed C	Vab 459 Vbc 459 Vca 464	Non-reported
12/07 /2017	09:02:11	812	Voltage sag Feed C	Vab 458 Vbc 458 Vca 457	Non-reported
12/07 /2017	08:06:44	33	Voltage Sag @ the 277 level Feed A	Vbn 268 Phase to neutral measurement	Non-reported
12/06 /2017	08:54:50	940	Voltage Sag feed B	Vab 461	Non-reported
12/05 /2017	00:56:50	181	Volt Sag Feed D	Vab 453 Vca 458	Tower 1 and 2 controller failure
12/05 /2017	00:56:50	928	Volt Sag Feed A	Vab 446 Vca 449	Tower 1 and 2 controller failure
12/05 /2017	00:59:07	833	Volt Sag Feed C	Vab 463 Vca 452	Tower 1 and 2 controller failure
12/05 /2017	00:53:03	650	Volt Sag Feed B	Vab 460	Tower 1 and 2 controller failure
12/02 /2017	11:48:38	354 354 354	Voltage Sag Feeder C	Vab 457 Vbc 456 Vca 454	Non-reported
11/28 /2017	20:36:27	598 598 598	Voltage Sag	Vab 460 Vbc 460 Vca 458	Non-reported
11/23 /2017	22:17:21	780 798 963	Voltage sag Feeder C	Vbc 464 Vca 453 Vab 456	Non-reported
11/18 /2017	06:16:59	529 680 680	Voltage Sag Feeder C	Vbc 465 Vab 459 Vca 460	Non-reported
11/15 /2017	14:14:46	562 562 544	Voltage Sag Feeder C	Vbc 457 Vca 457 Vab 462	Non-reported
11/14 /2017	07:08:38	500 517 583	Voltage Sag Feeder C	Van 266 Vab 461 Vca 464	Non-reported
11/14 /2017	07:05:41	574 574 657	Voltage Sag Feeder A	Van 266 Vab 461 Vca 463	Non-reported
	08:42:32	646	Voltage Sag Feeder D	Voltage Sag Vab 420 Voltage Sag Vca 432	None
	08:44: 36	472	Voltage Sag Feeder C	Voltage Sag Vab 408 Voltage sag Vca 423 Voltage sag Vbc 460	None
		877	Voltage Sag Feeder B	Voltage Sag Vab 415 Voltage Sag Vca 527	None

11/10 /2017	15:50	off line	Cooling	Damaged chilled water supply hose	<p>Lost 2 XE6 cabinets due to isolation XDP 4.8</p> <p>Cause: Water supply line to XDP 4.8 sprang a leak.</p> <p>Called Blue Waters on call HonWai Leong</p> <p>Cary were notified 4:58 PM</p> <p>Unit will be off line waiting on hose replacement ETA is 2 week</p>
11/04 /2017	20:00:58	998	Voltage Sag Feeder C	<p>Vab 456</p> <p>Vbc 457</p> <p>Vca 456</p>	None
10/31 /2017	20:08:31	309	Voltage Sag Feeder	<p>Vab 455</p> <p>Vbc 456</p> <p>Vca 455</p>	None
10/30 /2017	6:37:18	Not reported	Voltage Sag Feeder C	<p>Vab 461</p> <p>Vbc 460</p> <p>Vca 462</p>	None
10/29 /2017	10:07:51	224	Voltage Sag Feeder B	<p>Vab 440</p> <p>Vbc 454</p> <p>Vca 460</p>	None
10/26 /2017	7:57:23	690	Voltage Sag	<p>Vab 426</p> <p>Vbc 403</p> <p>Vca 424</p>	LSST: Servers rebooted at NCSA and NPCF