



October 26, 2022

Governing Board Communication

Agenda Item C-1

TO: MERA Governing Board
FROM: Todd Williams - Operations Officer

SUBJECT: MERA System Operations Update - September 2022

MERA System August Maintenance

September 2022, the Telecommunications Division provided the following support to MERA:

Dollar Hill - Generator transition panel circuitry failure after PG&E scheduled outage. 3rd party contractor Leete Generators tested and reset power panel settings (site is now operationally good).

- PG&E scheduled a power outage in the vicinity of Dollar Hill on 20 September 2022.
- The Dollar Hill generator fail to properly switch over from PG&E power to generator power due to a transitional panel circuitry switch failure (Error message displayed "RunRelCil Shutdown"). The generator did default to battery power; however, battery power eventually depleted bringing down the entire site due the generator inability to start up automatically to support the power grid.
- The Dollar Hill site did go down for a couple hours; however, most local areas had redundancy in coverage. Unfortunately, some users on the outskirts did experience intermittent RF loss for a couple hours.
- The Marin County Fleet Division (generator specialist) was deployed upon outage notification. Upon arrival the generator was manually restarted but they were unable to correct the transitional panel circuitry switch fault discrepancy.
- The generator continued to run manually until the system was professionally checked; furthermore, the entire power system was monitored every 8 hours by the Radio Shop and a Fleet generator mechanic even over the weekend and after PG&E restored power.
- Leete Generators deployed on Monday 25 September to conduct a thorough test, power synopsis and reset the transitional panel circuitry. Currently the transitional panel circuitry switch is performing properly without faults.



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Sonoma County - Bayhill MERA microwave site path issues. The Radio Shop adjusted all the microwave dishes and replaced Avait component hardware to correct issue.

- There have been continuously intermittent coverage vulnerabilities between the Sonoma Site and Bayhill for a couple months. The microwave path between Big Rock and the Sonoma site ultimately was the root cause of the issue, the RF signal path readings were good; however, data traffic was either intermittent or nonexistent.
- Trouble shooting procedures include adjusting all the lower dish and upper dishes and replacing Aviat Microwave hardware.
- After continuously switching out hardware, dish realignment, and rebooting the microwave the site came back up completely "without faults". Since there was so much switching out of equipment, it was undetermined what equipment swap out fixed the problem upon rebooting the network multiple times.
- The sites and path appear to be fully operational with no issues since the interventions were completed.



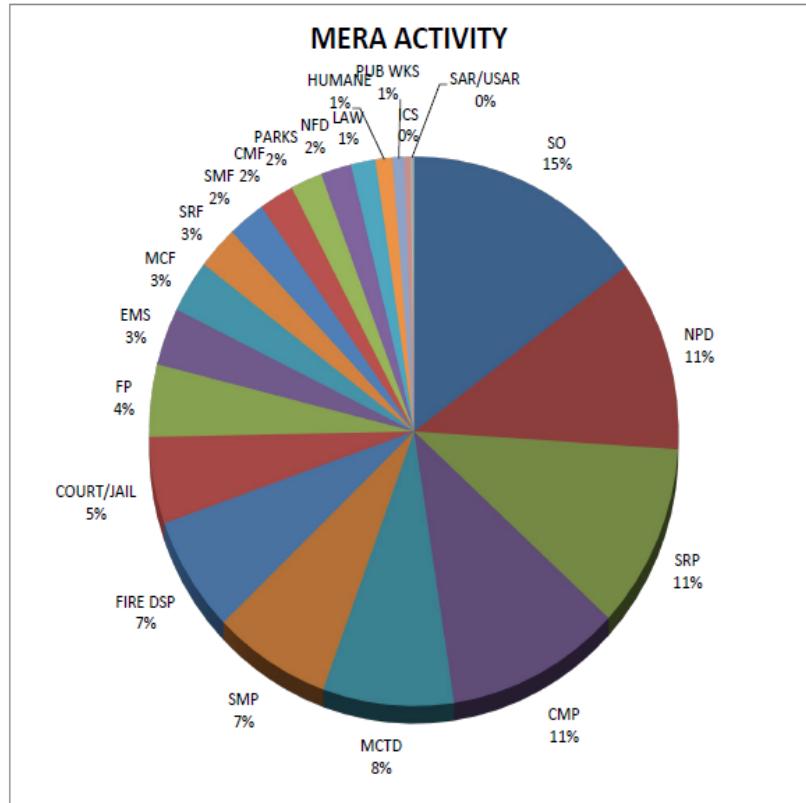
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MERA SYSTEM OPERATION

September 2022

<u>Agency Grouping</u>	<u>Radio Calls</u>	<u>Call Time</u>	<u>Busy Time</u>
SO	31,672	96:50:23	0:00:00
NPD	25,421	73:49:28	0:00:00
SRP	25,322	71:03:43	0:00:02
CMP	22,506	70:11:52	0:00:00
MCTD	16,671	52:21:23	0:00:00
SMP	16,542	47:08:43	0:00:00
FIRE DSP	17,833	44:37:53	0:00:00
COURT/JAIL	16,136	33:27:45	0:00:00
FP	10,295	27:53:45	0:00:00
EMS	3,374	22:10:31	0:00:00
MCF	6,640	20:14:58	0:00:00
SRF	7,006	16:31:51	0:00:00
SMF	5,783	15:04:56	0:00:00
CMF	5,287	13:58:43	0:00:00
PARKS	4,299	12:39:48	0:00:00
NFD	4,712	12:16:51	0:00:00
LAW	4,164	9:48:22	0:00:00
HUMANE	2,529	6:40:39	0:00:00
PUB WKS	2,065	4:46:04	0:00:00
ICS	844	2:33:24	0:00:00
SAR/USAR	218	0:36:01	0:00:00
FIRE MSC	90	0:17:49	0:00:00
MUT AID	124	0:16:57	0:00:00
OTHER	52	0:08:55	0:00:00
TOTAL:	229,585	655:30:44	0:00:02

<u>Category</u>	<u>Radio Calls</u>	<u>Call Time</u>	<u>Busy Time</u>
LAW TOTAL:	152,058	430:14:01	0:00:02
FIRE TOTAL:	50,943	145:49:33	0:00:00
PUBLIC WORKS TOTAL:	23,931	72:29:34	0:00:00
NON-MERA TOTAL:	2,653	6:57:36	0:00:00
	229,585	655:30:44	0:00:02





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MERA SYSTEM OPERATION

Annual 2022

<u>Agency Grouping</u>	<u>Radio Calls</u>	<u>Call Time</u>	<u>Busy Time</u>
SO	273,424	828:28:22	0:00:00
SRP	245,797	691:39:40	0:00:02
NPD	219,799	630:03:00	0:00:00
CMP	167,214	512:13:32	0:00:00
SMP	140,116	413:55:28	0:00:00
MCTD	125,598	384:31:33	0:00:00
FIRE DSP	149,507	372:48:32	0:00:01
COURT/JAIL	134,789	280:33:28	0:00:00
FP	94,636	257:27:06	0:00:03
LAW	74,650	214:18:05	0:00:00
EMS	27,931	188:37:20	0:00:00
MCF	54,835	167:54:13	0:00:00
SRF	57,577	135:08:24	0:00:00
SMF	48,426	125:04:14	0:00:00
PARKS	41,853	120:19:53	0:00:00
CMF	43,035	111:06:01	0:00:00
NFD	39,187	101:00:16	0:00:01
PUB WKS	22,520	52:41:57	0:00:00
HUMANE	19,060	51:26:51	0:00:00
ICS	6,288	17:14:22	0:00:00
SAR/USAR	4,415	13:27:28	0:00:00
FIRE MSC	657	2:37:40	0:00:00
MUT AID	1,314	2:35:37	0:00:00
OTHER	405	1:22:09	0:00:00
TOTAL:	1,993,033	5676:35:11	0:00:07

