

January 25, 2023

Governing Board Communication

Agenda Item C-1

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

**SUBJECT: MERA System Operations Update Dec 22 - Jan 2023**

**MERA System Maintenance**

**MERA January System Maintenance Report (Prior Month Dec. Reporting)**

**December 2022, the Telecommunications Division provided the following support to MERA:**

**Bayhill - Sonoma site intermittent signal degradation and outages (Predominately Weather Related)**

- o There has been numerous signal degradation losses and outages between the Bayhill and Sonoma site within the last couple weeks because of adverse weather conditions predominately (affected areas Tomales Fire station and surrounding areas).
- o Additionally, last week we also lost channel 2 for a couple hours. However, there's redundancy in this link via alternate channels, troubleshooting tools, and software. Sonoma and Marin County both share a single microwave link at the Sonoma County site.
- o As of last year, Sonoma County manages the Sonoma County portion of this microwave link. All trouble shooting efforts are coordinated with and conducted by the Sonoma County Radio Shop.
- o Our team of senior technical experts believe most of the site degradation and/or outages is related to extreme weather/storm condition, accompanied by old, degraded equipment.
- o The Radio Shop will continue to monitor this link via the MOSCAD monitoring tools, software, and assistance from the Sonoma County technicians and management team.



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**Barnabe - Pt. Reyes receiver inoperable (Corrected via spare receiver).**

- o On December 24, 2022, the receiver from Barnabe to Pt. Reyes failed, causing system monitoring alarms. However, redundancy via a hot standby immediately resolved site outage issues and/or concerns.
- o Corrective measures consisted of replacing the broken receiver with a spare. The issue was resolved immediately resulting in all cleared alarms.

**Multiple sites PG&E power failures (Continuous Corrective measures in place). There is redundancy in place via alternate power i.e., generators and battery power.**

- o Multiple sites lost PG&E (house)power i.e., the Barnabe, Bayhill, and Pt. Reyes sites etc.
- o All MERA sites have back up power measures in place. ATS power units provide the switching capabilities to automatically switch power between the various power systems. Redundant power is cycled automatically from PG&E power to generator and battery power via the ATS power distribution center.
- o The Radio Shop continues to work alongside various agencies to re-establish continuity among troubled sites i.e., PG&E, Marin County Feet, Marin County Facilities Management, and the McPhail's fuel replenishment company.

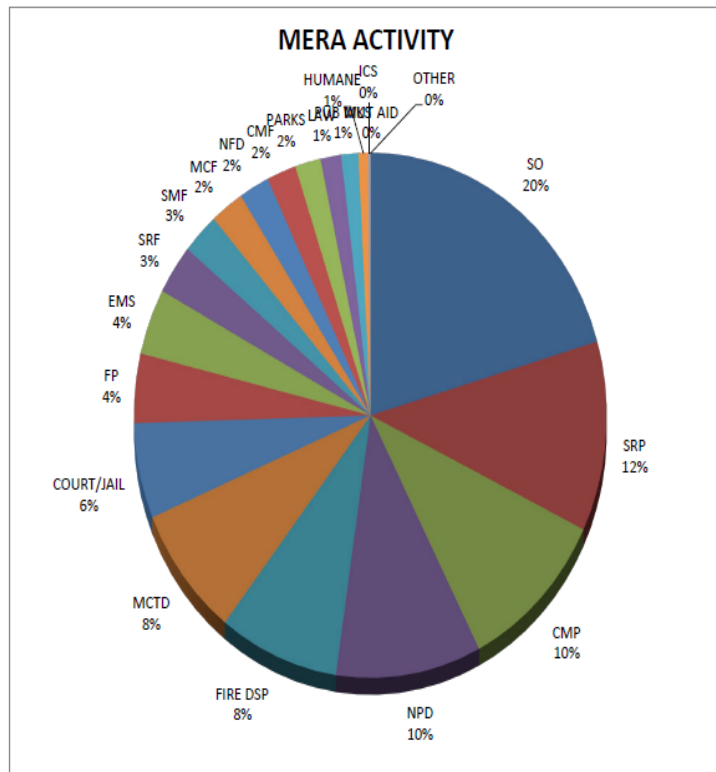


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**MERA SYSTEM OPERATION**

December	2022		
Agency Grouping	Radio Calls	Call Time	Busy Time
SO	40,036	117:25:07	0:00:00
SRP	23,730	67:07:23	0:00:00
CMP	19,097	58:59:00	0:00:00
NPD	20,036	56:57:06	0:00:00
FIRE DSP	18,577	47:04:36	0:00:00
MCTD	15,048	46:34:49	0:00:00
COURT/JAIL	16,222	33:39:41	0:00:00
FP	9,198	24:30:49	0:00:00
EMS	3,435	23:18:38	0:00:00
SRF	7,294	17:33:15	0:00:00
SMF	5,747	14:38:50	0:00:00
MCF	4,248	13:09:11	0:00:00
NFD	4,724	11:56:34	0:00:00
CMF	4,747	11:32:21	0:00:00
PARKS	3,508	10:02:03	0:00:00
LAW	3,643	8:07:01	0:00:00
PUB WKS	2,432	6:41:05	0:00:00
HUMANE	1,386	3:40:48	0:00:00
ICS	233	0:28:50	0:00:00
MUT AID	86	0:12:24	0:00:00
OTHER	35	0:08:19	0:00:00
FIRE MSC	21	0:08:09	0:00:00
SAR/USAR	53	0:03:58	0:00:00
SMP	18	0:02:34	0:00:00
<b>TOTAL:</b>	<b>203,554</b>	<b>574:02:31</b>	<b>0:00:00</b>

Category	Radio Calls	Call Time	Busy Time
LAW TOTAL:	131,980	366:48:41	0:00:00
FIRE TOTAL:	48,846	139:25:32	0:00:00
PUBLIC WORKS TOTAL:	21,256	63:55:06	0:00:00
NON-MERA TOTAL:	1,472	3:53:12	0:00:00
<b>TOTAL:</b>	<b>203,554</b>	<b>574:02:31</b>	<b>0:00:00</b>





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**MERA SYSTEM OPERATION**

Annual	2022		
Agency Grouping	Radio Calls	Call Time	Busy Time
SO	362,234	1094:29:54	0:00:00
SRP	319,369	897:06:52	0:00:02
NPD	287,890	822:30:51	0:00:00
CMP	226,286	694:37:27	0:00:00
SMP	178,642	529:06:58	0:00:00
MCTD	171,116	527:10:56	0:00:00
FIRE DSP	200,261	499:40:45	0:00:01
COURT/JAIL	179,872	374:42:31	0:00:00
FP	122,845	332:41:36	0:00:06
EMS	37,305	252:01:09	0:00:00
LAW	84,827	239:52:04	0:00:00
MCF	68,631	210:51:48	0:00:00
SRF	77,125	182:52:16	0:00:00
SMF	64,039	163:58:59	0:00:00
PARKS	54,442	156:39:23	0:00:00
CMF	57,401	148:14:50	0:00:00
NFD	51,193	130:47:35	0:00:01
PUB WKS	29,887	70:53:16	0:00:00
HUMANE	23,923	64:23:20	0:00:00
SAR/USAR	6,384	19:54:38	0:00:00
ICS	7,348	19:50:27	0:00:00
FIRE MSC	789	3:20:25	0:00:00
MUT AID	1,496	2:58:15	0:00:00
OTHER	515	1:44:37	0:00:00
<b>TOTAL:</b>	<b>2,613,820</b>	<b>7440:30:52</b>	<b>0:00:10</b>

Category	Radio Calls	Call Time	Busy Time
LAW TOTAL:	1,761,965	4985:08:13	0:00:08
FIRE TOTAL:	563,128	1611:42:25	0:00:02
PUBLIC WORKS TOTAL:	263,308	776:18:39	0:00:00
NON-MERA TOTAL:	25,419	67:21:35	0:00:00
<b>TOTAL:</b>	<b>2,613,820</b>	<b>7440:30:52</b>	<b>0:00:10</b>

