



September 28, 2022

Governing Board Communication

Agenda Item C-1

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

SUBJECT: MERA System Operations Update - August 2022

MERA System August Maintenance

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

**Big Rock - Civic Center MERA microwave site path issues.
Replaced SD card and link came back up immediately.**

- o During the first week of August the Radio Shop noticed modem alarms from the Civic Center to the Big Rock True Point MERA equipment.
- o The modem was replaced with a spare, but it only worked for a few days (rebooting the modem only fixed it temporarily). However, it happened 3 more times within the trouble shooting efforts, now the status light would not turn green again.
- o Manufacturer suggested replacing random parts; however, replacing the controller card wasn't an option at first (fear that SD memory card could go corrupt causing a bigger issue).
- o Upon inspection of the cards, we noticed green corrosion on the boards. Finally, we replaced the SD card and the link immediately came back up.
- o Further inspections indicated there was a possibility of spilled liquid on the True Point cabinet (caution should be taken when working within the facility).

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**Big Rock - Sonoma County MERA microwave site path issues.
Adjusted lower dish with better results, upper disk adjustments pending.**

- o Again, during the first week of August the Radio Shop noticed service interruptions randomly for up to a minute. Furthermore, service interruptions also took place from 10-50 times within a day.
- o Diversity was noticed on the path during sunny conditions on both ends with a low RSL (unusual).
- o Initially we didn't think there would be 2 separate dishes out of alignment at the same time, consequently 3-4 weeks was spent swapping out TX/RX units, modems, and MUX cards.
- o Trouble shooting efforts lead to adjusting the lower dishes on both ends which improved the average reading by about 3 db of gain on the A and B paths (the site hasn't gone down since).
- o The upper dishes have not been realigned yet; however, realignment is in the near forecast due to continued minor microwave alarms on MOSCAD (we anticipate better results upon adjusting the upper dish).

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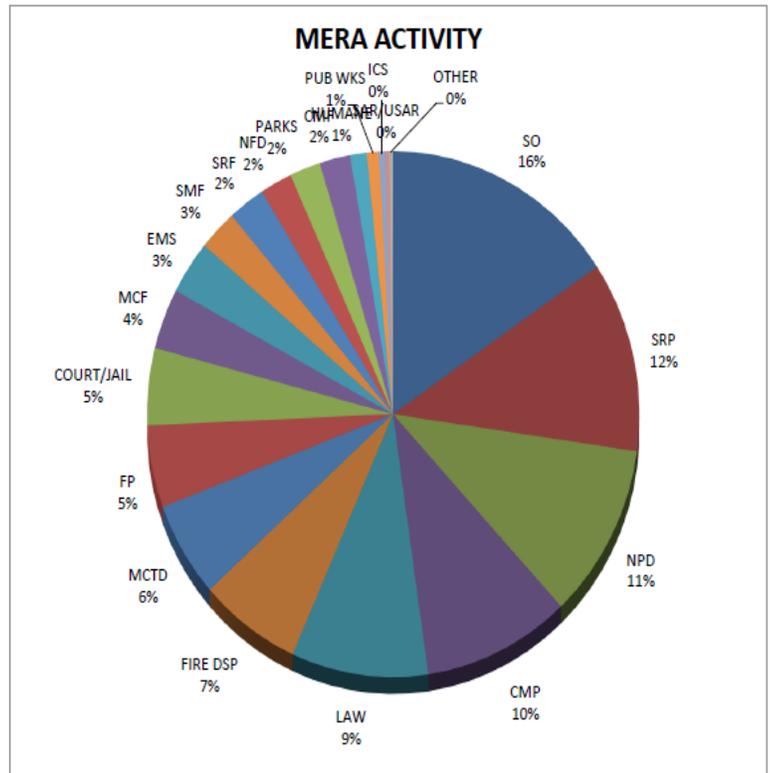
MERA SYSTEM OPERATION

August

2022

<u>Agency Grouping</u>	<u>Radio Calls</u>	<u>Call Time</u>	<u>Busy Time</u>
SMP	48,163	143:19:16	0:00:00
SRP	29,410	83:31:52	0:00:00
NPD	28,067	81:44:14	0:00:00
LAW	26,375	79:27:24	0:00:00
MCTD	15,565	48:08:30	0:00:00
FIRE DSP	16,960	41:45:47	0:00:00
COURT/JAIL	16,241	33:45:11	0:00:00
FP	10,043	26:52:52	0:00:00
EMS	3,159	21:20:05	0:00:00
MCF	6,445	19:02:59	0:00:00
SRF	6,538	15:58:39	0:00:00
PARKS	4,968	14:48:46	0:00:00
CMF	4,709	12:55:16	0:00:00
SMF	4,911	12:32:23	0:00:00
NFD	4,313	11:29:29	0:00:00
PUB WKS	3,916	9:59:49	0:00:00
HUMANE	2,491	6:48:29	0:00:00
ICS	1,064	2:37:43	0:00:00
SO	248	0:42:16	0:00:00
SAR/USAR	158	0:23:53	0:00:00
FIRE MSC	69	0:17:42	0:00:00
MUT AID	63	0:05:08	0:00:00
CMP	14	0:00:47	0:00:00
OTHER	5	0:00:20	0:00:00
TOTAL:	233,895	667:38:50	0:00:00

LAW TOTAL:	158,561	449:23:52	0:00:00
FIRE TOTAL:	47,262	135:46:13	0:00:00
PUBLIC WORKS TOTAL:	25,518	75:35:08	0:00:00
NON-MERA TOTAL:	2,554	6:53:37	0:00:00
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	233,895	667:38:50	0:00:00



MERA SYSTEM OPERATION

Annual	2022		
Agency Grouping	Radio Calls	Call Time	Busy Time
SO	241,752	731:37:59	0:00:00
SRP	220,475	620:35:57	0:00:00
NPD	194,378	556:13:32	0:00:00
CMP	144,708	442:01:40	0:00:00
SMP	123,574	366:46:45	0:00:00
MCTD	108,927	332:10:10	0:00:00
FIRE DSP	131,674	328:10:39	0:00:01
COURT/JAIL	118,653	247:05:43	0:00:00
FP	84,341	229:33:21	0:00:03
LAW	70,486	204:29:43	0:00:00
EMS	24,557	166:26:49	0:00:00
MCF	48,195	147:39:15	0:00:00
SRF	50,571	118:36:33	0:00:00
SMF	42,643	109:59:18	0:00:00
PARKS	37,554	107:40:05	0:00:00
CMF	37,748	97:07:18	0:00:00
NFD	34,475	88:43:25	0:00:01
PUB WKS	20,455	47:55:53	0:00:00
HUMANE	16,531	44:46:12	0:00:00
ICS	5,444	14:40:58	0:00:00
SAR/USAR	4,197	12:51:27	0:00:00
FIRE MSC	567	2:19:51	0:00:00
MUT AID	1,190	2:18:40	0:00:00
OTHER	353	1:13:14	0:00:00
TOTAL:	1,763,448	5021:04:27	0:00:05

Category	Radio Calls	Call Time	Busy Time
LAW TOTAL:	1,198,367	3398:24:40	0:00:03
FIRE TOTAL:	374,627	1071:54:35	0:00:02
PUBLIC WORKS TOTAL:	172,733	503:40:20	0:00:00
NON-MERA TOTAL:	17,721	47:04:52	0:00:00
TOTAL:	1,763,448	5021:04:27	0:00:05

