

COMMONWEALTH OF KENTUCKY

BEFORE THE KENTUCKY PUBLIC SERVICE COMMISSION

IN THE MATTER OF:


ELECTRONIC APPLICATION OF THE MARION)
 COUNTY WATER DISTRICT FOR THE ISSUANCE)
 OF A CERTIFICATE OF PUBLIC CONVENIENCE)
 AND NECESSITY TO CONSTRUCT A WATER)
 SYSTEM IMPROVEMENTS PROJECT AND) Case No. 2021-00303
 AN ORDER AUTHORIZING THE ISSUANCE)
 OF SECURITIES PURSUANT TO THE)
 PROVISIONS OF KRS 278.020, KRS 278.300)
 AND 807 KAR 5:001)

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SUPPLEMENTAL INFORMATION FILING

The Applicant, Marion County Water District ("Marion District"), by Counsel, files this Supplemental Information Filing in order to provide certain additional information set forth in **Exhibit "A"** attached hereto to the Case file. The additional information was compiled by Mr. Toby Spalding, Marion District General Manager.

Respectfully Submitted,
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CERTIFICATE OF SERVICE

The undersigned, in accordance with 807 KAR 5:001, Section 8, hereby certifies that Marion County Water District's electronic filing of the foregoing Supplemental Information Filing is a true and accurate copy of the document being electronically filed and transmitted to the Kentucky Public Service Commission on October 28, 2021; that there are currently no parties that the Kentucky Public Service Commission has excused from participation by electronic means in this proceeding.



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Case # 2021-00303
Response # 2

1. **Refer to Marion County Water District's Application, Exhibit A, Project Description and Need.**
 - a. **Marion District explains that replacement parts for its old meters are not available anymore. Provide a more thorough explanation as to why replacement parts are no longer available.**

RESPONSE:

Sensus SR meters were manufactured between the years of 1954 to 2008. Most all of Marion District SR meters were manufactured between the years of 1975-1980. Replacement parts for these meters became unavailable around the year 2010. Replacement meter bottoms have been and continue to be salvaged off old meters that we have in stock.

Replacement parts are not available due to the fact that no one has these meters anymore and the manufacturer, Sensus, does not support them.

- b. **Provide the original expected service lives of the existing meters and the expected service life of the replacement meters**

RESPONSE:

The original expected service life of the existing Sensus SR meters was twenty (20) years.

The expected service life of the new Neptune meters is twenty (20) years.

- c. **Marion District performed two tests on small areas and water loss reduction was 5.6-5.7% on both independent areas. Provide copies of the two tests that were performed by Marion District and include the sample size for both tests.**

RESPONSE:

The test results are attached. The Sulphur Springs Master Meter area sample size was 50 customers and the Fairgrounds Road Master Meter area sample size was 40 customers.

2. Refer to Marion District's Application, Exhibit B, Meter Specs.

- a. Provide a detailed analysis of the alternatives to meter replacement that were explored by Marion District and why each alternative was rejected.**

RESPONSE:

Rebuilding the existing meters was not an option as no replacement parts were available.

The alternative to meter replacement is no meter replacement. This alternative was not an option due to the water loss percentage that the District is experiencing. Additionally, the existing meters due to their age are experiencing a high level of maintenance issues in the field. The Board discussed in detail as to the best timeframe to replace the aging Sensus meters that the District has along with the aging Sensus MXU's that are no longer under warranty. The decision was made to replace all the aging meters within three (3) years. Processing bills while utilizing multiple AMR systems would be problematic. This tightened timeframe would make the transition from the existing AMR system to the new AMR system substantially less difficult.

- b. List each replacement meter that was under consideration by Marion District the pros and cons for each meter, and a discussion explaining why the Neptune meters were ultimately chosen.**

RESPONSE:

The Marion District had three meter manufacturers who met the required specifications and that replied to the Invitation to Bid.

They were: Neptune, Badger and Sensus.

All three meters met the specifications. The Sensus meter was a digital meter that was frowned upon by the District as customers find it very hard to read and very hard to determine if they have a slow leak as it does not have a low flow detection dial. The Neptune and Badger meters are very similar in appearance and both met the bid specifications.

The District has seven hundred (700) existing Neptune meters in service and they have performed exceptionally over the past three years. But ultimately, the Neptune meter was chosen due to the fact that they met all specifications and were the lowest responsive bidder.

3. Refer to Marion District's Application, Exhibit L, Bid Tabulation. The bids include a truck reading system.

- a. Confirm that Marion District's proposed truck reading system is an Automated Meter Reading (AMR) system.**

RESPONSE:

The Marion District's proposed truck reading system is an AMR system

- b. Explain if Marion District currently has an AMR system.**

RESPONSE:

The Marion District does currently have an AMR system and has since 2009.

- c. If Marion District currently has an AMR system, explain why it is required to purchase a new AMR system for its proposed Neptune Meters.**

RESPONSE:

The existing AMR system is a Sensus system and can only read Sensus meters. A Sensus R MXU AMR system can only read Sensus R MXU's. A Sensus M MXU AMR system can only read Sensus M MXU's. The R MXU's are no longer available from Sensus and therefore the R MXU AMR system is longer available. This means that if the R MXU AMR system fails, there are no longer replacement parts for it.

All meter manufacturers suppliers were required to bid two truck reading systems (AMR) for price comparison purposes and due to the fact that the Badger meters require a Badger AMR system, the Sensus meters require a Sensus AMR system and the Neptune meters require a Neptune AMR system.

- d. If Marion District does not currently have an AMR system, identify the operational benefits of installing an AMR system.**

RESPONSE:

The District currently has an AMR system and it would be basically operationally impossible to go back to a 100% manually read system.

SULPHUR SPRINGS

	Dec 18th	Dec 28th	MASTER METER			Jan 15th	Jan 19th
	Start Reading	Ending Reading	Usage CF	Start Reading	Ending Reading	Usage CF	
	103828	116809	12981	145390	157571	12181	
CUSTOMER NAME	OLD METERS			NEW METERS			
	Start	Ending	Usage	Start	Ending	Usage	
Job Masters	324945	325112	167	656	885	229	
Isaac Tatum	173417	174251	834	1201	1989	788	
Mary Lou Hamilton	4895990	4921407	25417	20711	36348	15637	
Mary Lou Hamilton	518095	531124	13029	559606	573805	14199	
Commercial Propane	84519	84553	34	127	190	63	
Lanham Refridgeration	119783	120040	257	607	1136	529	
Harold Farmer	374185	374661	476	675	1170	495	
Steven Nally	147338	147459	121	253	417	164	
Terry Mays	662365	663697	1332	2380	3655	1275	
Terry Mays Jr	309321	310362	1041	2047	3539	1492	
Fannie Cowherd	253982	254481	499	657	1474	817	
Sandra Trigg	554050	554922	872	1249	2222	973	
James Parrott	489112	489189	77	244	363	119	
Priscilla Shuck	314642	315040	398	598	991	393	
James Parrott	39583	39583	0	25	25	0	
George Calhoun	263042	263509	467	3515	6051	2536	
Larry King	458167	459092	925	1421	2236	815	
Betty Jean Hardin	321566	322112	546	796	1257	461	
Ronald Bohannon	60599	62322	1723	1483	2599	1116	
Ann Johnson	164254	165340	1086	2617	4370	1753	
Jackie Mays	1399468	1404058	4590	3716	5836	2120	
Jackie Mays	523024	523858	834	2554	4274	1720	
Jackie Mays	561052	563825	2773	5572	9175	3603	
Jackie Mays	105292	105780	488	720	1499	779	
Jackie Mays	558682	562455	3773	3150	5314	2164	
Dorothy Sagracy	255528	255899	371	564	939	375	
Joey Rigdon	291522	292821	1299	1848	3551	1703	
Joey Rigdon	302925	303456	531	293	1115	822	
Jo Ann Sagracy	334940	335425	485	929	1082	153	
April Moore	277095	277509	414	862	1247	385	
Catherine Doty	301703	302241	538	£34	1227	343	
Joseph Coulter	471158	473499	2341	4642	7508	2866	
James Heistand	218587	219722	1135	1860	3011	1151	
James Heistand	264715	265097	382	336	781	445	
Jackie Mays	163426	163861	435	739	1261	522	
Stephen Rakes	372948	373633	685	1115	1750	635	
Stephen Rakes	420834	422987	2153	2887	4991	2104	
Steven Smith	1003777	1005316	1539	3526	5533	2007	
Justin Gardner	1705817	1706362	545	792	1478	686	
BJ Medley	166351	166781	430	803	1397	594	
Richard Ryan	715217	717649	2432	10691	16740	6049	
James Medley	641623	642905	1282	1785	3009	1224	
David Clark	426519	426519	0	426519	426519	0	
Tony Clark	1395566	1399712	4146	7403	12471	5068	
Kirk Thompson	210248	211000	752	1181	1789	608	
Michael Farmer	0	0		25	25	0	
Will Dunn	30993	31819	826	33902	34424	522	
Will Dunn	61002	61800	798	63462	64329	867	
Willie Downs	1223327	1223805	478	2896	4984	2088	
Jeff Ryan	613495	614422	927	2187	3276	1089	
	meter usage(gal)		86683	meter usage(gal)		86546	
	master meter (gal)		97098	master meter (gal)		91114	
	LOSS		10415	LOSS		4568	
	PERCENT LOSS		10.73%	PERCENT LOSS		5.01%	

FAIRGROUNDS

	Dec 18th Dec 28th			Jan 20th 21-Jan		
	MASTER METER					
	Start Reading 75933.3	Ending Reading 82697	USAGE CF 6763.7	Start Reading 96891	Ending Reading 97515	USAGE CF 624
CUSTOMER NAME	OLD METERS			NEW METERS		
	Start	Ending	Usage	Start	Ending	Usage
Cleo Tungate	267542	268381	839	747	809	62
Toby and Susan Tungate	505290	506783	1493	3932	4091	159
Debbie Wilson	64530	64530	0	25	25	0
Gary Long	33390	33390	0	54	228	174
Larry Violette	546735	548299	1564	2584	2699	115
Ashley Bridgewater	221064	225404	4340	3180	3227	47
Darrell Gribbins	584330	585573	1243	2803	2909	106
Vicky Gribbins	307725	308369	644	1734	1833	99
Christopher Grimes	526896	527333	437	1024	1053	29
Larry King	689126	689960	834	2113	2241	128
Melissa Farris	144555	144724	169	1142	1162	20
Linda Spears	6214	8057	1843	12092	12341	249
Brenda Murphy				321	453	132
Donald Bell	342002	342532	530	1141	1141	0
Dallas Simpson	118827	119066	239	524	544	20
Wallace Gribbins	366597	367275	678	558	568	10
Clarence Darnell	176162	176202	40	689	718	29
Gary Long	459225	460242	1017	2234	2404	170
RCE Enterprises	540772	541570	798	1724	1831	107
Odie Deering	338500	343281	4781	1084	1104	20
Clarence Ford	79063	79104	41	127	128	1
James Cornett	141273	141888	615	1398	1461	63
James Cornett	183836	184124	288	841	891	50
Tamyra McElroy	363835	364738	903	2564	2678	114
Marion Fiscal Court	158095	158159	64	845	889	44
Alton Smith	667700	667993	293	1026	1078	52
Michella Sagracy	225138	225421	283	836	862	26
Bonnie Amador	346724	347550	826	1881	1925	44
Kenneth Sagracy	639669	640812	1143	3021	3236	215
Crenshaw Trust	380454	380874	420	1107	1195	88
Holly Hardin	243663	245208	1545	2950	3135	185
Lacy Owens	942361	944587	2226	5409	5646	237
Edna Seabrook	2421	2902	481	3765	3787	22
Geneva Denton	267739	268065	326	1504	1564	60
Donnie Hazelwood	289700	289701	1	32	32	0
Mona Sagracy	601610	604704	3094	3471	3629	158
Travis Yates	125697	126297	600	1051	1094	43
Terrence O'Reilly	397771	398602	831	2240	2363	123
James Leake	491937	493605	1668	4139	4287	148
James Medley	612	612	0	25	25	0
James Tony Medley	1168806	1175316	6510	13746	14688	942
Willie Downs	76679	76705	26	111	112	1

meter usage(gal)	43673	meter usage(gal)	4292
master meter (gal)	50592	master meter (gal)	4668
LOSS	6919	LOSS	376
PERCENT LOSS	13.68%	PERCENT LOSS	8.05%