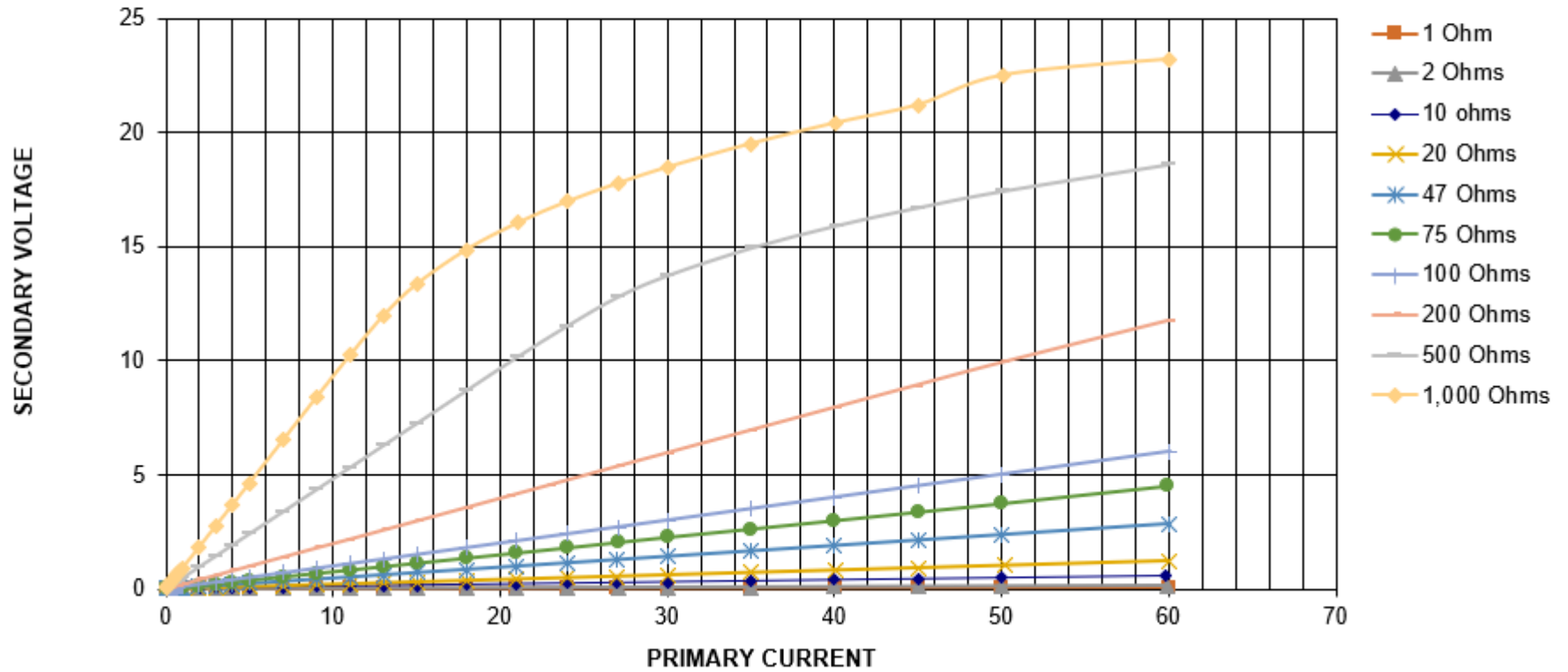


CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



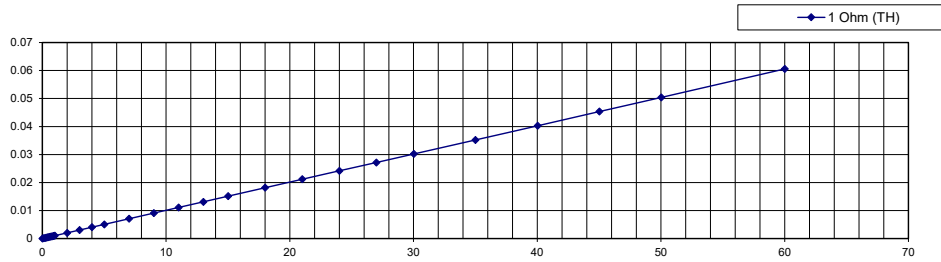
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000486806	0.000486806	2.55517E-05	0.000765267	-0.000486434	105.2528562	19.0518419	98.09481581
0.1A	0.100479746	0.100479746	0.000102073	0.001042438	-0.000382062	126.7163172	984.3914196	1.560858037
0.2A	0.200195604	0.200195604	0.000206021	0.001066164	-0.000273365	175.3647106	971.7261714	2.827382864
0.3A	0.300030871	0.300030871	0.000312461	0.000963507	-0.000197724	258.0286925	960.2174639	3.978253607
0.4A	0.400096479	0.400096479	0.000408875	0.001064997	-6.07048E-05	773.5473228	978.5294634	2.147053655
0.5A	0.500307934	0.500307934	0.0005156	0.000988493	7.74494E-06	-6557.255027	970.3409998	2.965900019
0.6A	0.600099286	0.600099286	0.000614243	0.000976617	9.92611E-05	-518.8159353	976.9734046	2.302659538
0.7A	0.700013012	0.700013012	0.000711821	0.001067365	0.000260363	-173.3955991	983.4120313	1.658796869
0.8A	0.800115588	0.800115588	0.000818667	0.001001003	0.000314112	-160.6288513	977.3399541	2.266004592
0.9A	0.900185282	0.900185282	0.000918837	0.000943387	0.000362417	-153.5304914	979.7010631	2.029893691
1A	1.00082785	1.00082785	0.001013782	0.001016028	0.000530063	-91.25665763	987.2223952	1.27776048
2A	2.0000576	2.0000576	0.002029027	0.000999616	0.001512484	-34.15198036	985.7223122	1.427768778
3A	3.0002118	3.0002118	0.003028798	0.001016614	0.00256325	-18.16239975	990.5618893	0.943811065
4A	4.00089423	0.040008942	0.004046105	0.001003527	0.003528198	-14.67910009	988.8260078	1.117399221
5A	5.00260518	0.050026052	0.005051349	0.001007368	0.00455266	-10.95379697	990.3503381	0.964966192
7A	7.00178946	0.035008947	0.007065264	0.001009853	0.006583974	-7.310019889	991.0159803	0.898401965
9A	9.00600032	0.045030002	0.009089223	0.001003368	0.008549526	-6.312594308	990.8438168	0.915618319
11A	11.003917	0.022007834	0.011093869	0.00100621	0.010585444	-4.803056914	991.8917824	0.810821762
13A	13.0033014	0.026006603	0.013105669	0.001008934	0.012632664	-3.744303389	992.1890747	0.78109253
15A	15.007934	0.030015868	0.01512821	0.001007567	0.014634688	-3.37227984	992.0495354	0.795046457
18A	18.00321395	0.036006428	0.018146155	0.001008696	0.017672969	-2.677455625	992.1228186	0.787718136
21A	21.0044024	0.042008805	0.021173442	0.001007548	0.020676141	-2.405193364	992.016428	0.798357202
24A	24.00346875	0.048006938	0.024195146	0.000989701	0.023269459	-3.978121131	992.0778676	0.792213243
27A	26.9909162	0.026990916	0.027151827	0.001005987	0.026665699	-1.823045164	994.0736805	0.592631952
30A	30.0278544	0.030027854	0.030206946	0.001005102	0.029694245	-1.726602748	994.0711683	0.592883167
35A	35.0021077	0.035002108	0.035206577	0.001006322	0.03473658	-1.353031644	994.1922897	0.580771025
40A	40.0220762	0.040022076	0.040258281	0.001019368	0.040310403	0.129300564	994.132755	0.586724499
45A	45.0141416	0.045014142	0.045347031	0.001007432	0.044861882	-1.081429693	992.659063	0.7340937
50A	50.018512	0.050018512	0.050388594	0.001019552	0.050509653	0.239673917	992.6554351	0.734456488
60A	60.0018638	0.030000932	0.060567138	0.001009421	0.060080331	-0.810258814	990.6669884	0.933301164

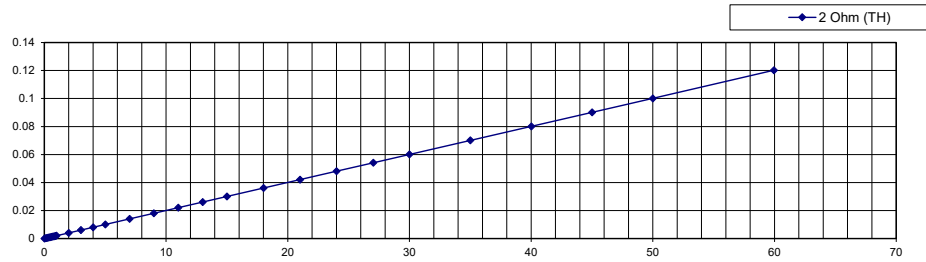
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000591227	0.000591227	2.80177E-05	0.001746441	-0.000590194	104.747193	42.20386663	95.77961334
0.1A	0.100040572	0.100040572	0.0002017	0.002096176	-0.000381524	152.8668975	991.9737644	0.802623555
0.2A	0.200170877	0.200170877	0.000411591	0.001967891	-0.000197312	308.598521	972.6694635	2.733053646
0.3A	0.300018098	0.300018098	0.000608079	0.00203654	1.97719E-05	-2975.472144	986.7730996	1.32269004
0.4A	0.400123589	0.400123589	0.000811948	0.001981024	0.000201427	-303.0969857	985.5891905	1.441080945
0.5A	0.500092944	0.500092944	0.00100999	0.001954145	0.000386027	-161.6369608	990.2931859	0.970681413
0.6A	0.600062641	0.600062641	0.001205345	0.002063645	0.00064709	-86.27172748	995.6695815	0.433041851
0.7A	0.70008829	0.70008829	0.001411762	0.002026498	0.0008275	-70.60565797	991.7933711	0.820662888
0.8A	0.800078813	0.800078813	0.001614393	0.001961208	0.000977894	-65.08876637	991.1822496	0.88177504
0.9A	0.900325114	0.900325114	0.001810997	0.001987862	0.001198495	-51.10590432	994.2868302	0.57131698
1A	1.00038463	1.00038463	0.002009901	0.002003135	0.001412679	-42.2758938	995.4564982	0.454350183
2A	2.000293	2.000293	0.004012853	0.002011158	0.003431678	-16.93557187	996.9431199	0.305688013
3A	3.00117206	3.00117206	0.006025779	0.002003934	0.005422924	-11.11678276	996.1109359	0.388906412
4A	4.00091263	0.040009126	0.008029193	0.00200191	0.007418242	-8.235791635	996.5914769	0.340852314
5A	5.00665159	0.050066516	0.010042592	0.002003945	0.009441828	-6.362798741	997.08351	0.291649
7A	7.0001574	0.035000787	0.014037468	0.002003591	0.013434229	-4.490317232	997.353255	0.264674505
9A	9.0007771	0.045003886	0.018045893	0.001996989	0.017383224	-3.812119586	997.5429977	0.245700227
11A	11.005392	0.022010784	0.022049086	0.002003062	0.021453253	-2.777357711	998.2628577	0.173714227
13A	13.00438305	0.026008766	0.026053189	0.00200347	0.025462666	-2.319173429	998.2949189	0.17050811
15A	15.0066114	0.030013223	0.030064594	0.002005181	0.029499746	-1.914752279	998.2913223	0.170867768
18A	18.0054051	0.03601081	0.036077718	0.002004562	0.035501723	-1.622443428	998.1454564	0.185454358
21A	21.00732135	0.042014643	0.042095245	0.002004117	0.041509912	-1.410104361	998.0852422	0.191475784
24A	24.00733005	0.04801466	0.048107615	0.001983415	0.047025262	-2.301640834	998.0677799	0.19322201
27A	27.031453	0.027031453	0.054105704	0.002001141	0.053502515	-1.127403845	999.2089891	0.079101087
30A	29.9898148	0.029989815	0.060025803	0.00200521	0.059544641	-0.808069003	999.2307825	0.076921754
35A	35.0045166	0.035004517	0.070081331	0.002004868	0.069588206	-0.708633624	998.9683701	0.103162995
40A	40.0123768	0.040012377	0.08012143	0.002002167	0.07952022	-0.756046271	998.7933827	0.120661726
45A	44.999598	0.044999598	0.090106678	0.002005137	0.089639117	-0.521603676	998.807175	0.119282503
50A	49.9887001	0.0499887	0.100110509	0.002018776	0.100324752	0.213549456	998.6703813	0.132961865
60A	59.9394048	0.029969702	0.120198751	0.002005338	0.119607524	-0.494305752	997.3382302	0.266176975

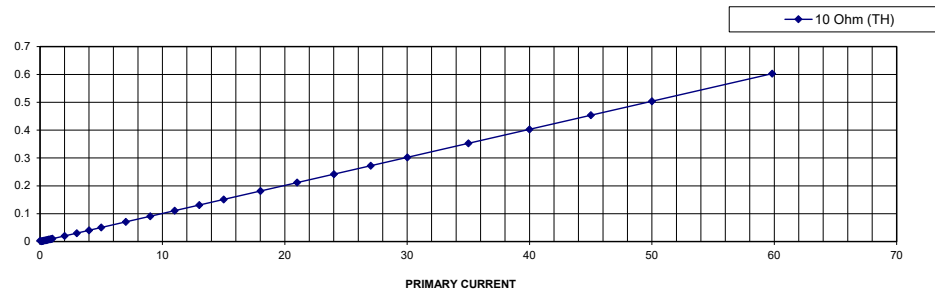
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	3.92662E-07	3.92662E-07	0.003110349	-0.020739482	-4.00806E-07	776123.4892	0.001262438	99.99987376
0.1A	0.100654951	0.100654951	0.001022825	0.010017681	0.001007937	-1.477159442	984.0873906	1.591260944
0.2A	0.208208191	0.208208191	0.002100259	0.010010343	0.002083843	-0.787809355	991.3451451	0.865485493
0.3A	0.303174508	0.303174508	0.003050905	0.010003398	0.003032383	-0.610807289	993.7200169	0.627998309
0.4A	0.409048042	0.409048042	0.00411	0.010007871	0.004093307	-0.407798542	995.2507492	0.474925079
0.5A	0.50175876	0.50175876	0.005037837	0.010019978	0.005027219	-0.211205948	995.9805863	0.401941369
0.6A	0.604485381	0.604485381	0.006067155	0.010028919	0.006061942	-0.085999146	996.3242411	0.367575894
0.7A	0.700761974	0.700761974	0.007032705	0.010005104	0.007010804	-0.312393276	996.4330114	0.356698864
0.8A	0.8045883	0.8045883	0.008071499	0.010030759	0.008070239	-0.015609998	996.8264196	0.317358045
0.9A	0.903732473	0.903732473	0.00906599	0.010020351	0.009055324	-0.117786493	996.8381677	0.316183234
1A	1.01046731	1.01046731	0.01013551	0.010028592	0.010133172	-0.023077817	996.9574991	0.304250095
2A	2.0062716	2.0062716	0.020122026	0.010021983	0.020106427	-0.077582042	997.0525085	0.294749154
3A	3.00385334	3.00385334	0.030119772	0.010235959	0.030746928	2.039734868	997.3028017	0.269719834
4A	4.00461527	0.040046153	0.040363531	0.010086429	0.040391874	0.070171511	992.137006	0.786299397
5A	5.00247953	0.050024795	0.050428418	0.01007883	0.050418746	-0.019183059	991.99613	0.800386999
7A	7.00112296	0.035005615	0.070572404	0.010078409	0.070559787	-0.017881633	992.0482417	0.795175828
9A	9.00089168	0.045004458	0.090726891	0.010061272	0.090560023	-0.184261984	992.0864223	0.791357768
11A	11.0030207	0.022006041	0.110870855	0.010044998	0.110524933	-0.312981174	992.4177729	0.758222709
13A	13.00121355	0.026002427	0.130942699	0.010093829	0.131231638	0.22017477	992.8933533	0.71066467
15A	15.0025974	0.030005195	0.151144326	0.010064424	0.150992108	-0.100811803	992.6007676	0.739923244
18A	18.00429875	0.036008598	0.181354721	0.010074766	0.181388696	0.018730515	992.7670287	0.723297134
21A	21.0097139	0.042019428	0.211633574	0.010074625	0.21166459	0.014653581	992.7401169	0.725988307
24A	24.0065625	0.048013125	0.241825699	0.010073984	0.24184134	0.006467573	992.7217247	0.727827525
27A	27.0158915	0.027015892	0.272141632	0.010057792	0.271719829	-0.155234391	992.7143929	0.728560708
30A	30.0154327	0.030015433	0.302310394	0.010096034	0.303036449	0.23959322	992.8680355	0.713196451
35A	35.0011455	0.035001146	0.352646322	0.010060314	0.352122136	-0.148864714	992.5283015	0.747169851
40A	39.9850111	0.039985011	0.402785577	0.010083312	0.403180934	0.098059396	992.7120876	0.72879124
45A	45.0099413	0.045009941	0.453453514	0.010071327	0.453309426	-0.03178578	992.6032087	0.739679128
50A	50.0035347	0.050003535	0.503745624	0.01008053	0.504061726	0.062711063	992.6346219	0.736537813
60A	59.8248244	0.029912412	0.602749427	0.010075239	0.602749034	-6.51453E-05	992.5322484	0.74677516

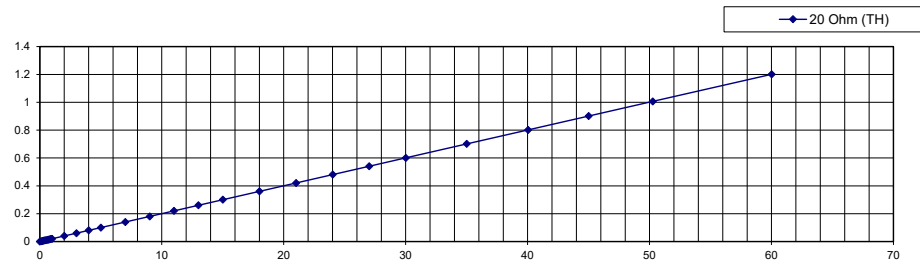
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000629468	0.000629468	2.41066E-05	0.019833063	-0.000616983	103.9071696	522.2370591	47.77629409
0.1A	0.100073479	0.100073479	0.001996386	0.01987607	0.0013596	-46.83627891	1002.546426	-0.254642648
0.2A	0.20057271	0.20057271	0.003993916	0.020016694	0.003385335	-17.97697076	1004.39132	-0.439131959
0.3A	0.300113942	0.300113942	0.005986402	0.019980467	0.005366949	-11.541991	1002.652154	-0.265215401
0.4A	0.400057921	0.400057921	0.007983329	0.020022607	0.007380735	-8.164424425	1002.233288	-0.223328754
0.5A	0.500078521	0.500078521	0.009986002	0.020011264	0.009377736	-6.486283973	1001.558977	-0.155897718
0.6A	0.600116705	0.600116705	0.011987893	0.020028156	0.011389763	-5.251468382	1001.20464	-0.120464038
0.7A	0.700293843	0.700293843	0.013994256	0.020069253	0.013424907	-4.2409946	1000.830381	-0.083038068
0.8A	0.800107992	0.800107992	0.015997452	0.020024201	0.015392055	-3.933173561	1000.294306	-0.029430562
0.9A	0.900302898	0.900302898	0.018003775	0.019961412	0.01734185	-3.816921883	1000.126827	-0.012682674
1A	1.00024227	1.00024227	0.019998706	0.020034467	0.019409854	-3.033778334	1000.30701	-0.030700987
2A	2.00034009	2.00034009	0.040035133	0.020030015	0.039437375	-1.515713318	999.2923465	0.070765345
3A	3.00052071	3.00052071	0.060068766	0.020019119	0.059438314	-1.060682668	999.0285833	0.097141666
4A	4.00111937	0.040011194	0.08009987	0.020066192	0.079657764	-0.555006694	999.0326776	0.096732242
5A	5.00571091	0.050057109	0.100258197	0.019986137	0.099415357	-0.847796269	998.5639199	0.143608008
7A	7.00075646	0.035003782	0.140131451	0.020024029	0.139553884	-0.413866926	999.1699094	0.08300906
9A	9.0047508	0.045023754	0.180259492	0.019993763	0.179409386	-0.473835905	999.0875598	0.091244016
11A	11.0031495	0.022006299	0.220215002	0.020036069	0.2198304	-0.174954169	999.309711	0.069028903
13A	13.00296065	0.026005921	0.260283357	0.019947169	0.25874278	-0.595408542	999.1388462	0.086115379
15A	15.00756255	0.030015125	0.300269489	0.020021246	0.299840635	-0.143027427	999.6062271	0.039377294
18A	18.00661655	0.036013233	0.360314287	0.020038501	0.360196144	-0.032799762	999.4950075	0.050499247
21A	21.00372795	0.042007456	0.420371908	0.020007625	0.419605236	-0.18271278	999.2926525	0.070734746
24A	24.00849265	0.048016985	0.480490112	0.020042202	0.480553586	0.013208601	999.3334743	0.066652568
27A	26.9996704	0.02699967	0.5404399	0.020103841	0.54216762	0.318669	999.173836	0.082616402
30A	30.0131259	0.030013126	0.601021931	0.020044378	0.600964977	-0.009477142	998.7364637	0.126353626
35A	35.0075687	0.035007569	0.701132431	0.019982587	0.698912314	-0.317653127	998.6007536	0.139924636
40A	40.0302649	0.040030265	0.801498894	0.020031443	0.801234501	-0.032998161	998.8850939	0.111490609
45A	45.0011358	0.045001136	0.901072611	0.020028209	0.900662693	-0.045512917	998.8348386	0.116516137
50A	50.2541441	0.050254144	1.00628096	0.019942681	1.001572906	-0.47006607	998.8094001	0.119059989
60A	60.0069596	0.03000348	1.20077825	0.02001065	1.200148782	-0.052449123	999.4677968	0.053220318

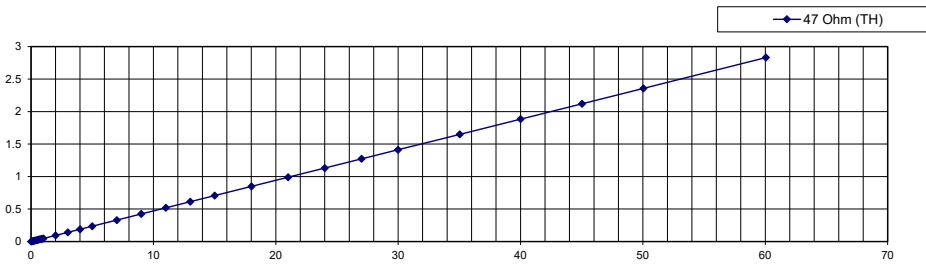
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000594231	0.000594231	2.62702E-05	0.046740807	-0.000566456	104.6376473	1063.136759	-6.31367585
0.1A	0.100021521	0.100021521	0.004673582	0.046995813	0.004106362	-13.81321288	1005.869054	-0.586905442
0.2A	0.200086411	0.200086411	0.009376213	0.047047454	0.008819325	-6.314404656	1002.970117	-0.297011676
0.3A	0.300005249	0.300005249	0.01407714	0.047136612	0.013547	-3.91333969	1001.641449	-0.164144871
0.4A	0.400016689	0.400016689	0.01879134	0.047081936	0.018239329	-3.026488409	1000.502582	-0.050258166
0.5A	0.500018392	0.500018392	0.023499614	0.047109126	0.022961198	-2.344892985	1000.05321	-0.005321041
0.6A	0.600165233	0.600165233	0.028217444	0.047143595	0.027699715	-1.869076884	999.6570118	0.034298815
0.7A	0.700172098	0.700172098	0.032932127	0.047138226	0.03241064	-1.609001473	999.2700534	0.072994659
0.8A	0.800015494	0.800015494	0.037638568	0.047147244	0.037124295	-1.385274034	998.9946567	0.10053433
0.9A	0.900045158	0.900045158	0.042354691	0.047166353	0.041857617	-1.187536309	998.7588512	0.124114881
1A	1.00079229	1.00079229	0.047106566	0.047176121	0.046619267	-1.045273792	998.5282716	0.147172839
2A	2.00036184	2.00036184	0.09426238	0.0471096	0.093642016	-0.662484318	997.3969146	0.260308536
3A	3.00012535	3.00012535	0.141360839	0.047166286	0.140910539	-0.319564193	997.4890673	0.251093268
4A	4.00185968	0.040018597	0.188608927	0.04715486	0.188112903	-0.263684339	997.2349027	0.276509733
5A	5.00247696	0.05002477	0.235792895	0.047116451	0.235104729	-0.292706234	997.1310506	0.286894938
7A	7.00405584	0.035020279	0.330100188	0.047085379	0.329194393	-0.275154919	997.2445835	0.275541655
9A	9.0036322	0.045018161	0.424250999	0.047126387	0.423714428	-0.126635032	997.453664	0.254633602
11A	11.00369705	0.022007394	0.51850683	0.047122162	0.517923763	-0.112577756	997.4290239	0.257097607
13A	13.0072905	0.026014581	0.612920485	0.047169626	0.6129548	0.005598371	997.4257158	0.257428417
15A	15.0061495	0.030012299	0.707205917	0.047121332	0.706515526	-0.097717736	997.2894875	0.271051253
18A	18.00638135	0.036012763	0.848580839	0.04712648	0.847983132	-0.070485749	997.3120822	0.268791781
21A	21.0081051	0.04201621	0.990041512	0.047142127	0.989772535	-0.027175604	997.3126659	0.268733408
24A	24.0008389	0.048001678	1.13112535	0.046935935	1.125907586	-0.463427386	997.2718128	0.27281872
27A	27.008316	0.027008316	1.2722841	0.047037227	1.269802062	-0.195466514	997.7259419	0.227405813
30A	29.9869952	0.029986995	1.41239291	0.046829238	1.403673908	-0.621155799	997.8730171	0.212698292
35A	35.0280313	0.035028031	1.64846079	0.047143741	1.65075821	0.139173645	998.699806	0.130019404
40A	40.0065017	0.040006502	1.88316451	0.047116708	1.884380435	0.064526512	998.4818479	0.151815207
45A	45.0277347	0.045027735	2.11974848	0.047201006	2.124760164	0.235870582	998.3748312	0.16251688
50A	50.0337555	0.050033756	2.3560377	0.047396117	2.370811518	0.623154464	998.1107299	0.188927007
60A	60.0434022	0.030021701	2.83045609	0.047140168	2.829861859	-0.020998594	997.0265617	0.297343832

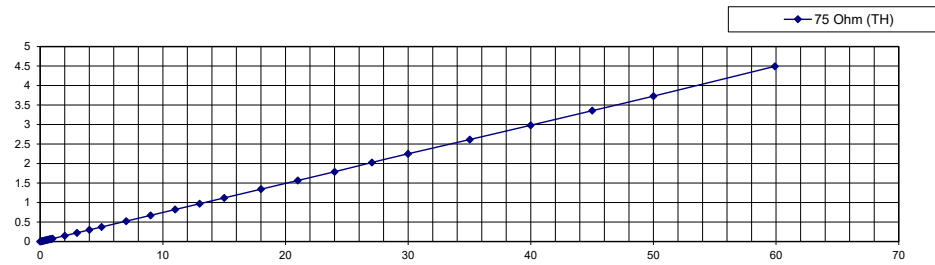
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000572084	0.000572084	2.09322E-05	0.073928909	-0.00052979	103.9510325	2049.775664	-104.9775664
0.1A	0.100344945	0.100344945	0.007397031	0.074428605	0.00689645	-7.258524187	1017.417792	-1.741779184
0.2A	0.200097535	0.200097535	0.014821477	0.074485931	0.014332367	-3.412622243	1012.538435	-1.253843493
0.3A	0.300241312	0.300241312	0.02228078	0.074567813	0.021816254	-2.12926273	1010.651284	-1.065128354
0.4A	0.400392069	0.400392069	0.029748802	0.07454736	0.029276088	-1.614677805	1009.432406	-0.943240576
0.5A	0.500265155	0.500265155	0.037194077	0.074568642	0.036732009	-1.25794342	1008.75971	-0.875970984
0.6A	0.600099619	0.600099619	0.044638598	0.074572417	0.044178795	-1.040776716	1008.26356	-0.826355988
0.7A	0.700428395	0.700428395	0.052120357	0.07459396	0.051675644	-0.86058511	1007.900418	-0.790041835
0.8A	0.800108067	0.800108067	0.059555859	0.074658588	0.059162855	-0.664274628	1007.593653	-0.759365302
0.9A	0.900504785	0.900504785	0.067051336	0.074848285	0.066829155	-0.332460792	1007.25598	-0.725598036
1A	1.000733	1.000733	0.074553246	0.074584341	0.074066928	-0.656592406	1006.729812	-0.672981163
2A	2.0010886	2.0010886	0.149091036	0.074549861	0.148535754	-0.373837573	1006.151466	-0.615146641
3A	3.0051636	3.0051636	0.223671276	0.074644418	0.223399712	-0.121559541	1006.113664	-0.611366388
4A	4.0044524	0.040044524	0.298609497	0.074688025	0.298512556	-0.032474801	1005.774877	-0.577487661
5A	5.00298233	0.050029823	0.373187725	0.07446905	0.371995256	-0.320560223	1005.455565	-0.545556462
7A	7.00230286	0.035011514	0.522075225	0.074642404	0.522096637	0.004101117	1005.933033	-0.593303293
9A	9.00353458	0.045017673	0.671451972	0.07458815	0.670984907	-0.069608867	1005.678919	-0.567891921
11A	11.0060602	0.02201212	0.820816654	0.074556843	0.820005021	-0.098979025	1005.650301	-0.56503008
13A	13.0000261	0.026000052	0.969480457	0.074528116	0.968295371	-0.122388889	1005.695319	-0.569531903
15A	15.0011159	0.030002232	1.11861791	0.074547848	1.117728826	-0.079543811	1005.780153	-0.578015285
18A	18.0040062	0.036008012	1.34247692	0.074557826	1.341767481	-0.0528735	1005.827694	-0.582769423
21A	21.00572435	0.042011449	1.5662785	0.074519361	1.564761082	-0.096974395	1005.8424	-0.584240047
24A	24.00055825	0.048001117	1.78945161	0.07815236	1.875128188	4.569105115	1005.918159	-0.591815878
27A	27.0427983	0.027042798	2.02720985	0.075645593	2.04509642	0.874607682	1000.4933	-0.049329994
30A	29.9858422	0.029985842	2.24983815	0.072653984	2.178018826	-3.297461122	999.599979	0.040002211
35A	35.0178813	0.035017881	2.61543584	0.073729718	2.581286433	-1.322960771	1004.169576	-0.416957561
40A	39.9833815	0.039983382	2.98154077	0.074565866	2.980823402	-0.024066117	1005.773137	-0.577313672
45A	45.0043538	0.045004354	3.35593392	0.074605937	3.357019893	0.032349328	1005.778605	-0.577860454
50A	49.9986928	0.049998693	3.72854126	0.077214429	3.860048443	3.40687909	1005.72897	-0.572896973
60A	59.9007306	0.029950365	4.493121457	0.07500946	4.492549373	-0.012734057	999.8738823	0.012611767

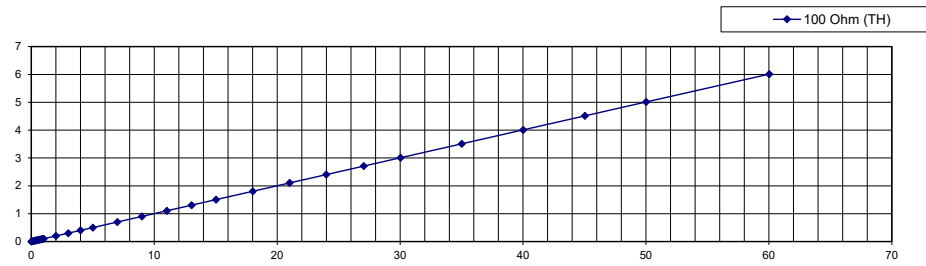
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000658017	0.000658017	4.94705E-05	0.099095373	-0.000592811	108.3450729	1330.120688	-33.01206884
0.1A	0.100051145	0.100051145	0.00989887	0.09996805	0.0093439	-5.939373149	1010.733035	-1.073303462
0.2A	0.2002366	0.2002366	0.019914214	0.100034075	0.019372466	-2.796487071	1005.495863	-0.549586335
0.3A	0.300036071	0.300036071	0.029897562	0.100062131	0.029364231	-1.816260367	1003.546948	-0.354694808
0.4A	0.400165399	0.400165399	0.039916716	0.100175876	0.039428902	-1.23719824	1002.500807	-0.250080694
0.5A	0.500068365	0.500068365	0.049924583	0.100160675	0.049429167	-1.002273801	1001.647555	-0.164755507
0.6A	0.600148219	0.600148219	0.059948649	0.100086891	0.059408952	-0.908443436	1001.103831	-0.110383139
0.7A	0.700523356	0.700523356	0.069994884	0.100219216	0.069547884	-0.642722833	1000.820796	-0.08207957
0.8A	0.800101483	0.800101483	0.079974526	0.1001698	0.079487988	-0.612090184	1000.445422	-0.044542183
0.9A	0.900353821	0.900353821	0.090016783	0.10020244	0.089559632	-0.510442254	1000.206624	-0.020662369
1A	1.00032715	1.00032715	0.100034354	0.10016566	0.099540412	-0.496223056	999.9836156	0.001638437
2A	2.00011129	2.00011129	0.200178392	0.10012749	0.199608107	-0.285702502	999.1644303	0.083556971
3A	3.00043726	3.00043726	0.300338521	0.100251561	0.300140501	-0.065975753	999.0184576	0.098154242
4A	4.00201213	0.040020121	0.400747965	0.100238122	0.400496165	-0.062872088	998.6356712	0.136432882
5A	5.00087197	0.05000872	0.5008718	0.100325392	0.501056422	0.036846643	998.4335253	0.156647469
7A	6.9886631	0.034943316	0.700297724	0.100291773	0.700247398	-0.007186955	997.9559922	0.204400779
9A	8.99182136	0.044959107	0.901198018	0.099883015	0.89747221	-0.415144656	997.7631087	0.223689129
11A	11.0271416	0.022054283	1.10449194	0.100225191	1.10453936	0.004293235	998.3904093	0.160959074
13A	13.03336795	0.026066736	1.30556636	0.100128422	1.304352545	-0.093058796	998.2922622	0.170773778
15A	15.02633285	0.030052666	1.50511879	0.100124727	1.503849455	-0.084405741	998.348632	0.1651368
18A	18.01895235	0.036037905	1.804754	0.100102892	1.803091226	-0.092217984	998.4159808	0.158401921
21A	21.00946345	0.042018927	2.10411281	0.100150222	2.103444411	-0.031776404	998.4951068	0.150489317
24A	23.9970753	0.047994151	2.4033228	0.100364009	2.407784662	0.185309842	998.4957202	0.150427982
27A	27.0403524	0.027040352	2.70875829	0.100100594	2.706097307	-0.098332881	998.2563782	0.17436218
30A	30.0314002	0.0300314	3.00816395	0.100415323	3.014954734	0.225236667	998.3299015	0.167009847
35A	35.0129207	0.035012921	3.50838494	0.100204975	3.507810811	-0.016367146	997.9783091	0.202169093
40A	40.0133455	0.040013346	4.00945238	0.100189986	4.008278502	-0.029286337	997.975327	0.202467301
45A	45.0238239	0.045023824	4.51145214	0.100268303	4.513804415	0.052112908	997.9896163	0.201038373
50A	50.0061697	0.05000617	5.0110235	0.099748234	4.987369114	-0.474285844	997.9232726	0.207672744
60A	60.0332306	0.030016615	6.01120512	0.100131295	6.010547103	-0.010947713	998.6887721	0.131122792

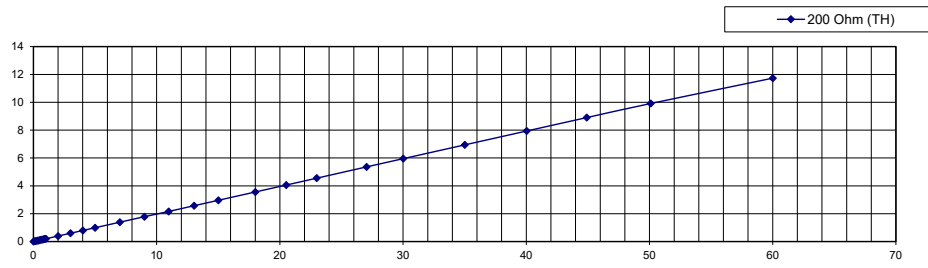
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000591048	0.000591048	7.77337E-05	0.195344692	-0.00047559	116.3447089	1520.697829	-52.06978292
0.1A	0.100469078	0.100469078	0.019588377	0.197573267	0.019258956	-1.710479447	1025.802996	-2.580299558
0.2A	0.200339767	0.200339767	0.039320155	0.197946304	0.039065469	-0.651947402	1019.018193	-1.901819304
0.3A	0.300092561	0.300092561	0.059065852	0.197997169	0.05882643	-0.406997729	1016.128781	-1.612878114
0.4A	0.400221813	0.400221813	0.07889116	0.198005052	0.078654893	-0.300384663	1014.617635	-1.461763516
0.5A	0.500215438	0.500215438	0.098690403	0.198212151	0.09855773	-0.134614588	1013.706341	-1.370634079
0.6A	0.60009003	0.60009003	0.118486761	0.197713525	0.118054868	-0.365841257	1012.923343	-1.292334255
0.7A	0.700103289	0.700103289	0.138260735	0.197652242	0.137785937	-0.344590889	1012.729014	-1.272901377
0.8A	0.800513478	0.800513478	0.158107034	0.198142781	0.158024919	-0.05196341	1012.622219	-1.262221895
0.9A	0.900126378	0.900126378	0.177844611	0.197968575	0.177605688	-0.134524237	1012.261629	-1.226162878
1A	1.00062694	1.00062694	0.197740564	0.198259147	0.197792396	0.026205399	1012.060368	-1.206036815
2A	2.00040484	2.00040484	0.395955678	0.198205459	0.395900111	-0.014035641	1010.418565	-1.041856508
3A	3.00164333	3.00164333	0.594406612	0.198557867	0.595408849	0.168327454	1009.962968	-0.996296791
4A	4.00492923	4.00492923	0.79361692	0.198493349	0.794360769	0.09364119	1009.285243	-0.928524306
5A	5.00287918	5.00287918	0.991703348	0.197707383	0.988515105	-0.322528536	1008.946716	-0.894671579
7A	7.00301304	7.00301304	1.38714458	0.198033502	1.386240148	-0.065243548	1009.701965	-0.970196488
9A	9.0009157	9.0009157	1.78279624	0.192237979	1.729726795	-3.068082487	1009.752601	-0.975260078
11A	10.9725826	10.9725826	2.1618255	0.198600942	2.178574196	0.768791608	1015.121951	-1.512195133
13A	13.04143215	13.04143215	2.57270097	0.198537606	2.588623667	0.615102814	1013.831946	-1.383194565
15A	15.0019705	15.0019705	2.96194156	0.198881296	2.983020284	0.706623567	1012.982208	-1.298220752
18A	18.00549	18.00549	3.55928541	0.198598957	3.575280485	0.447379572	1011.747468	-1.174746759
21A	20.51172265	20.51172265	4.0570206	0.19884129	4.077986344	0.514120009	1011.171728	-1.117172784
24A	22.9948806	22.9948806	4.55077493	0.200329718	4.605966897	1.198271027	1010.591864	-1.059186419
27A	27.0339997	27.0339997	5.35993052	0.198745303	5.372289425	0.230049127	1008.744408	-0.874440813
30A	30.0080414	30.0080414	5.95100734	0.198206262	5.947190677	-0.064175895	1008.50292	-0.850292011
35A	35.0008171	35.0008171	6.94060675	0.198093278	6.932835533	-0.112092908	1008.580903	-0.858090253
40A	40.0353572	40.0353572	7.9379153	0.197648767	7.912347941	-0.323132392	1008.712129	-0.871212874
45A	44.9015998	44.9015998	8.89972215	0.194944992	8.752750945	-1.679143007	1009.056216	-0.905621643
50A	50.0972805	50.0972805	9.91259408	0.183700274	9.202293132	-7.718738562	1010.780429	-1.078042933
60A	60.0067394	60.0067394	11.7329644	0.195527444	11.73237335	-0.00503775	1022.874311	-2.287431129

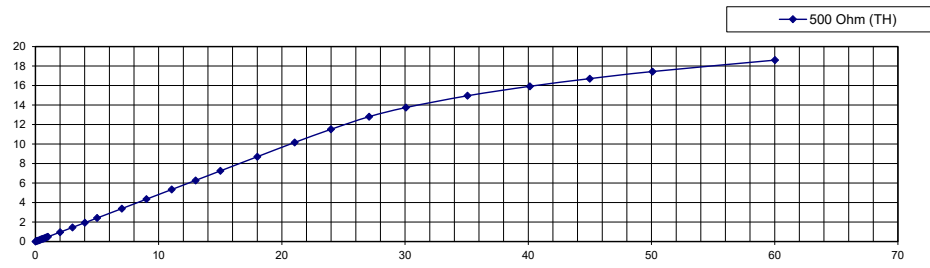
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000552822	0.000552822	0.000157491	0.470762896	-0.000292574	153.8296084	1755.086392	-75.50863918
0.1A	0.100353589	0.100353589	0.047139989	0.47946922	0.047563635	0.890691946	1064.420997	-6.442099667
0.2A	0.200342364	0.200342364	0.095081529	0.480317724	0.095675166	0.620470995	1053.529351	-5.352935141
0.3A	0.300464646	0.300464646	0.143172036	0.480117866	0.143705622	0.371305221	1049.31331	-4.931331004
0.4A	0.400199112	0.400199112	0.191056335	0.481098757	0.191982473	0.482407554	1047.332746	-4.733274612
0.5A	0.500056934	0.500056934	0.239097809	0.480733531	0.239842223	0.310376667	1045.716262	-4.571626167
0.6A	0.600538519	0.600538519	0.287402859	0.481061583	0.288343188	0.32611462	1044.767824	-4.476782362
0.7A	0.700010322	0.700010322	0.335254922	0.481537249	0.336528222	0.378363576	1043.997084	-4.399708411
0.8A	0.800103854	0.800103854	0.383453686	0.481326437	0.384558315	0.287246121	1043.286169	-4.328616885
0.9A	0.900442149	0.900442149	0.43174916	0.482288349	0.433719935	0.454388834	1042.783904	-4.278390374
1A	1.0006216	1.0006216	0.480064542	0.483205731	0.482953269	0.598138083	1042.174033	-4.217403334
2A	2.00044368	2.00044368	0.963184301	0.481937808	0.96353662	0.036565214	1038.453221	-3.845322122
3A	3.00023048	3.00023048	1.44501936	0.48190149	1.445262716	0.01683821	1038.128126	-3.812812584
4A	4.00323929	0.040032393	1.9283708	0.483285824	1.934155978	0.299106096	1037.984834	-3.798483414
5A	5.00205553	0.050020555	2.41108453	0.481438785	2.407630715	-0.143452847	1037.304057	-3.730405711
7A	7.00197392	0.03500987	3.37392281	0.484734865	3.393548058	0.578310584	1037.660657	-3.766065709
9A	9.0003047	0.045001524	4.34258341	0.482072924	4.338250386	-0.099879539	1036.284609	-3.628460875
11A	11.0560979	0.022112196	5.33362565	0.483737267	5.347693765	0.263068821	1036.452371	-3.645237082
13A	12.99072635	0.025981453	6.26947753	0.484694397	6.295979451	0.420934049	1036.029421	-3.602942094
15A	15.00699515	0.03001399	7.24675172	0.48510506	7.279416456	0.448727392	1035.429095	-3.542909498
18A	18.0112519	0.036022504	8.70413187	0.482542831	8.690647658	-0.155157736	1034.638041	-3.463804139
21A	21.03166115	0.042063322	10.1616087	0.457389414	9.619106351	-5.639841467	1034.858838	-3.485883835
24A	23.98098695	0.047961974	11.5105991	0.418829339	10.04338809	-14.60872562	1041.69152	-4.169152021
27A	27.0709584	0.027070958	12.8047698	0.314129408	8.503231318	-50.58710413	1057.065407	-5.706540699
30A	30.0607326	0.030060733	13.7439458	0.241760401	7.266941952	-89.12970395	1093.599067	-9.359906673
35A	35.0660552	0.035066055	14.9540346	0.191775237	6.724248226	-122.3896873	1172.46135	-17.24613503
40A	40.130865	0.040130865	15.9253397	0.161638632	6.48614531	-145.528568	1259.968885	-25.99688847
45A	44.9800993	0.044980099	16.7091633	0.143061797	6.434381001	-159.6856372	1345.971025	-34.59710248
50A	50.0791615	0.050079162	17.4386443	0.117797213	5.8963282	-195.6387494	1435.867394	-43.58673942
60A	60.0184128	0.030009206	18.6094604	0.310062521	18.60890758	-0.00297074	1612.577998	-61.25779982

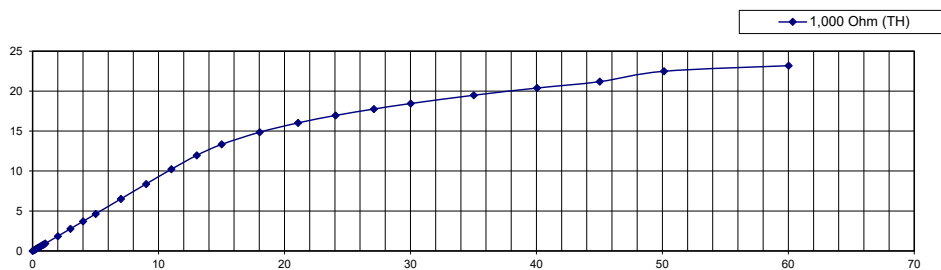
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8449-1000
Lot #:	30520
TURNS/RATIO:	1000
DATE:	May 29, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	1000
FREQUENCY(Hz):	60

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000601628	0.000601628	0.000276755	0.888955	-6.68078E-05	514.2563149	2173.861406	-117.3861406
0.1A	0.10019345	0.10019345	0.088809404	0.911443658	0.090719057	2.105018601	1128.185148	-12.81851476
0.2A	0.200455637	0.200455637	0.180192738	0.915724013	0.182960412	1.512717514	1112.451252	-11.24512521
0.3A	0.300254895	0.300254895	0.271581315	0.917102175	0.274762789	1.15789849	1105.580091	-10.55800912
0.4A	0.400651932	0.400651932	0.363655656	0.918478232	0.36738845	1.016034717	1101.734362	-10.17343616
0.5A	0.500257439	0.500257439	0.455141146	0.922432379	0.460852032	1.23920158	1099.125938	-9.912593796
0.6A	0.600740088	0.600740088	0.547829595	0.921524071	0.552994823	0.934046402	1096.582027	-9.658202748
0.7A	0.700318775	0.700318775	0.639593752	0.922679085	0.645567859	0.925403346	1094.943115	-9.494311477
0.8A	0.800460063	0.800460063	0.731992024	0.92405581	0.739068143	0.957438033	1093.536592	-9.35365916
0.9A	0.900340422	0.900340422	0.82428705	0.922782969	0.83021718	0.714286584	1092.26564	-9.226563974
1A	1.0001332	1.0001332	0.916374126	0.925499371	0.92502102	0.934778057	1091.402705	-9.14027051
2A	2.00030175	2.00030175	1.84202949	0.925986741	1.85165127	0.519632408	1085.922761	-8.59227612
3A	3.00118944	3.00118944	2.76883822	0.930181152	2.791048222	0.795758453	1083.916503	-8.391650271
4A	4.00162359	0.040016236	3.69942321	0.932102384	3.729321262	0.801702237	1081.688513	-8.168851273
5A	5.00169656	0.050016966	4.63159361	0.935717767	4.67957471	1.025330346	1079.908339	-7.99083385
7A	7.00404658	0.035020233	6.5052281	0.93549704	6.551663216	0.708753101	1076.679629	-7.667962942
9A	9.0048898	0.045024449	8.37701101	0.915603349	8.244305634	-1.609661038	1074.952604	-7.495260413
11A	11.01688505	0.02203377	10.2192006	0.865443681	9.53389192	-7.188131409	1078.057422	-7.805742163
13A	13.02482865	0.026049657	11.9569627	0.692628665	9.020768053	-32.54927551	1089.309131	-8.930913116
15A	15.0102472	0.030020494	13.3321205	0.505590885	7.588442544	-75.6898128	1125.870952	-12.5870952
18A	18.02918315	0.036058366	14.858467	0.382863166	6.902108514	-115.2743175	1213.394568	-21.33945682
21A	21.06763005	0.04213526	16.0217764	0.313714004	6.608608942	-142.4379554	1314.937216	-31.49372157
24A	24.04980805	0.048099616	16.9573274	0.262894455	6.321959545	-168.2289768	1418.254627	-41.82546272
27A	27.0870216	0.027087022	17.755794	0.236935554	6.417276841	-176.6873619	1525.531418	-52.55314181
30A	30.0110281	0.030011028	18.4485951	0.206907323	6.208899852	-197.1314652	1626.737859	-62.67378593
35A	35.0177146	0.035017715	19.4845152	0.179998411	6.302531352	-209.1538005	1797.207384	-79.72073845
40A	40.0456051	0.040045605	20.3895275	0.159701779	6.394752762	-218.8477844	1964.028107	-96.40281071
45A	45.0198684	0.045019868	21.1839262	0.255079316	11.48303559	-84.48019287	2125.190013	-112.5190013
50A	50.1320779	0.050132078	22.4879451	0.0704514	3.531273457	-536.8225336	2229.286744	-122.9286744
60A	60.013714	0.030006857	23.1841202	0.386313705	23.18351857	-0.002595068	2588.569826	-158.8569826