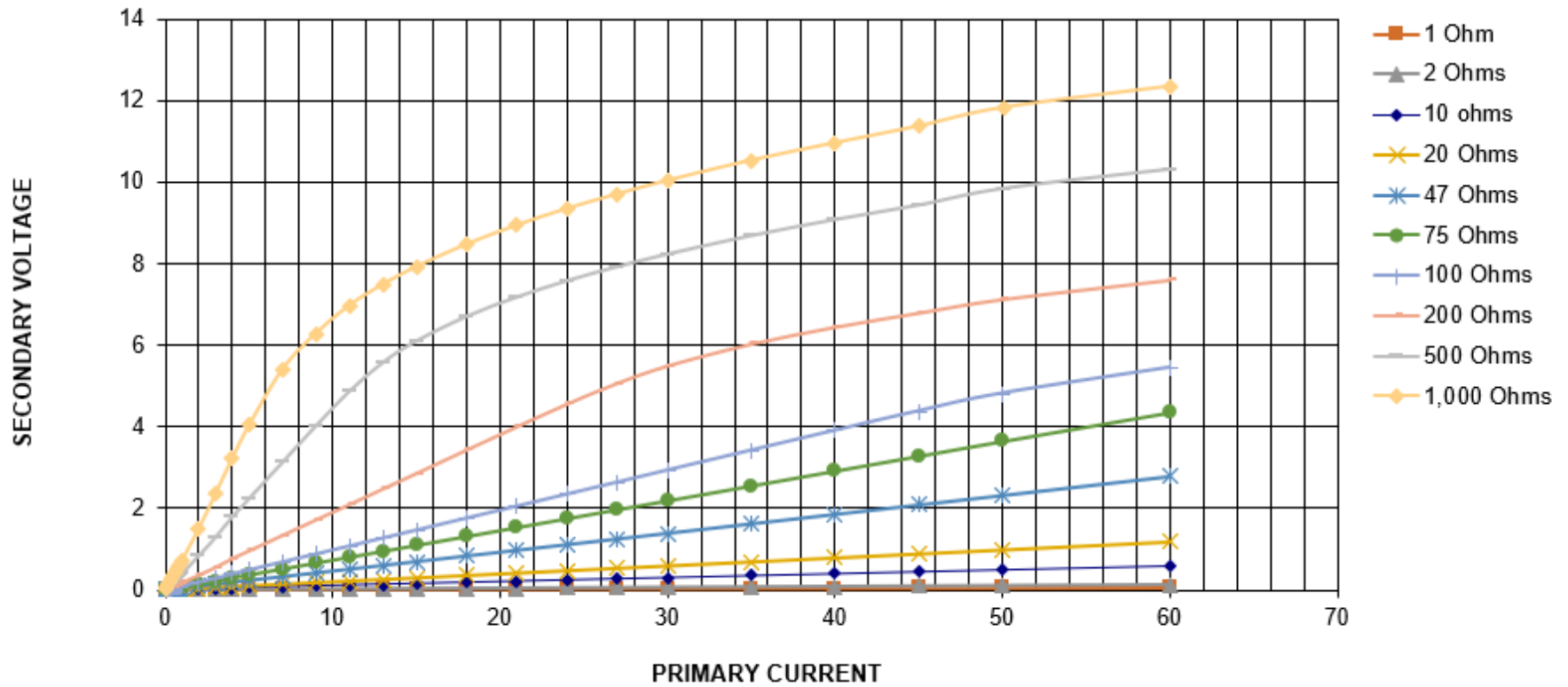


CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



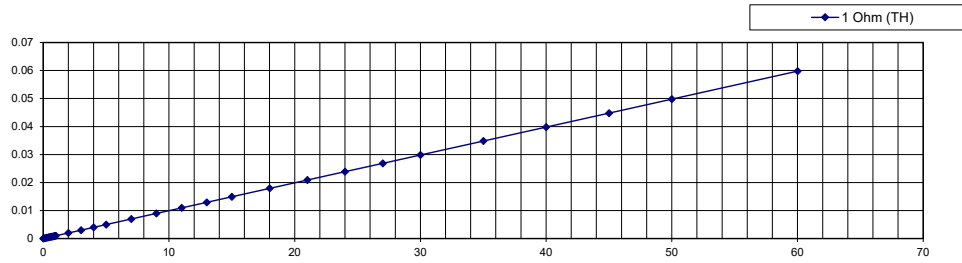
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000948976	0.000948976	1.90468E-05	0.000850616	-0.000948168	102.0088029	49.82327173	95.01767283
0.1A	0.100500992	0.100500992	0.000103727	0.000893996	-0.000859128	112.0735579	968.8959698	3.110403015
0.2A	0.200282784	0.200282784	0.000192932	0.001051285	-0.000738421	126.1276131	1038.101179	-3.810117866
0.3A	0.300455505	0.300455505	0.000298242	0.000989395	-0.000651706	145.7632386	1007.422011	-0.742201089
0.4A	0.400469636	0.400469636	0.000397195	0.000949499	-0.00056873	169.8389889	1008.243282	-0.824328191
0.5A	0.5000822	0.5000822	0.000491777	0.001061736	-0.00041802	217.6443694	1016.887245	-1.688724497
0.6A	0.600477524	0.600477524	0.000598371	0.000956699	-0.000374499	259.7789497	1003.520846	-0.352084555
0.7A	0.700292283	0.700292283	0.000693863	0.001032903	-0.000225641	407.5070817	1009.265239	-0.926523914
0.8A	0.800246565	0.800246565	0.000797107	0.000936626	-0.000199444	499.6640928	1003.939242	-0.393924241
0.9A	0.900156118	0.900156118	0.000890684	0.001042995	-1.01175E-05	8903.370056	1010.634179	-1.06341795
1A	1.00125503	1.00125503	0.00099613	0.000990047	4.23143E-05	-2254.123075	1005.144891	-0.514489148
2A	2.00091424	2.00091424	0.00198584	0.000984151	0.001020227	-94.64696728	1007.590873	-0.759087346
3A	3.00233218	3.00233218	0.002971387	0.001022072	0.002119624	-40.1845935	1010.414515	-1.041451479
4A	4.00443478	0.040044348	0.003995608	0.000997738	0.0030464	-31.15835364	1002.209196	-0.220919586
5A	5.00646753	0.050064675	0.004995373	0.000995167	0.004033293	-23.85346235	1002.220863	-0.222086297
7A	7.00381728	0.035019086	0.006983069	0.000997863	0.006039872	-15.61618008	1002.971208	-0.297120788
9A	9.00249764	0.045012488	0.008977478	0.000979102	0.007865391	-14.13898038	1002.786984	-0.278698441
11A	11.0032824	0.022006565	0.010936451	0.000995923	0.010009447	-9.261287318	1006.110913	-0.611091311
13A	13.000784	0.026001568	0.012925809	0.000995099	0.011988088	-7.822099346	1005.800442	-0.580044176
15A	15.00291935	0.030005839	0.014918131	0.000996035	0.013994462	-6.600249287	1005.683577	-0.568357725
18A	18.003359	0.036006718	0.017906675	0.00099708	0.017001816	-5.322133384	1005.399339	-0.539933858
21A	21.00382735	0.042007655	0.020898382	0.000996157	0.019974143	-4.62717832	1005.045618	-0.504561786
24A	24.0005778	0.048001156	0.023883617	0.000984831	0.022687545	-5.271934485	1004.897102	-0.489710158
27A	27.0057279	0.027005728	0.026843183	0.000997862	0.025999023	-3.24689142	1006.055344	-0.605534369
30A	30.0078376	0.030007838	0.029838875	0.000995952	0.028937387	-3.115306019	1005.662486	-0.566248552
35A	35.0033152	0.035003315	0.034814131	0.000997449	0.033965048	-2.499871293	1005.434127	-0.543412677
40A	40.0005745	0.040000575	0.039798642	0.000996645	0.038917381	-2.264440414	1005.073844	-0.507384393
45A	45.0029479	0.045002948	0.044784231	0.000998921	0.044005436	-1.769770877	1004.883795	-0.488379493
50A	50.0038538	0.050003854	0.049779743	0.00100039	0.049074395	-1.437303443	1004.502044	-0.450204412
60A	60.0041	0.03000205	0.059783893	0.00099633	0.058834917	-1.612946264	1003.68339	-0.368339013

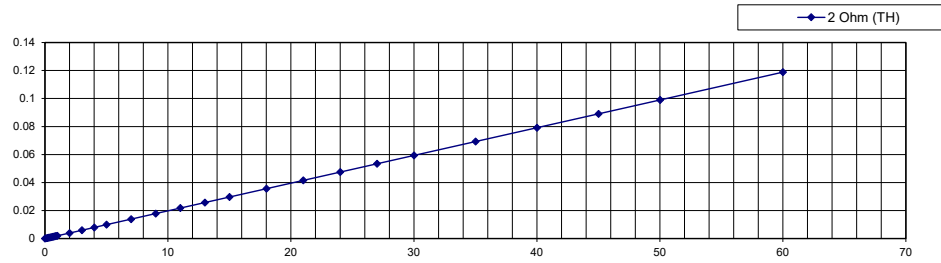
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000500208	0.000500208	1.86633E-05	0.001814063	-0.000499301	103.7378783	53.60353006	94.63964699
0.1A	0.100495402	0.100495402	0.000200061	0.001872558	-0.000312025	164.1169684	1004.648361	-0.464836076
0.2A	0.20027344	0.20027344	0.000386901	0.002026819	-9.42902E-05	510.3300395	1035.269689	-3.526968896
0.3A	0.300625711	0.300625711	0.000590297	0.001875255	6.35415E-05	-828.9946251	1018.557612	-1.855761162
0.4A	0.400219941	0.400219941	0.000777061	0.002043557	0.000317664	-144.6173039	1030.085681	-3.008568078
0.5A	0.500417906	0.500417906	0.000981822	0.001904992	0.000453084	-116.6975305	1019.366105	-1.936610492
0.6A	0.600440335	0.600440335	0.001172364	0.002022012	0.00071389	-64.22200831	1024.324337	-2.432433723
0.7A	0.700644811	0.700644811	0.001374978	0.001898983	0.000830305	-65.59928766	1019.135742	-1.91357422
0.8A	0.800192537	0.800192537	0.001564018	0.002025023	0.0011202	-39.61956294	1023.252429	-2.325242884
0.9A	0.900326104	0.900326104	0.001766791	0.001985518	0.001287406	-37.23651515	1019.165609	-1.916560921
1A	1.0021928	1.0021928	0.001969049	0.001960756	0.001464848	-34.42005073	1017.946143	-1.794614259
2A	2.00066404	2.00066404	0.003926807	0.001972248	0.003445598	-13.96593325	1018.977401	-1.897740095
3A	3.00233373	3.00233373	0.005902349	0.002020223	0.005565174	-6.058648501	1017.335272	-1.733527215
4A	4.0046121	0.040046121	0.007927174	0.00198704	0.007457116	-6.303476943	1010.350487	-1.03504867
5A	5.00280256	0.050028026	0.009910619	0.001974289	0.00937677	-5.693306926	1009.584324	-0.958432409
7A	7.00789046	0.035039452	0.013869242	0.00198486	0.013409475	-3.428670139	1010.56577	-1.056577015
9A	9.0032871	0.045016436	0.017829825	0.001961272	0.017157682	-3.917445629	1009.913109	-0.991310896
11A	11.0001949	0.02200039	0.021746304	0.001977144	0.021248756	-2.341535881	1011.68411	-1.168410985
13A	13.00830815	0.026016616	0.025716632	0.001974996	0.025191153	-2.085966877	1011.665	-1.166499961
15A	15.0024321	0.030004864	0.029655019	0.001978385	0.029180373	-1.626593092	1011.797156	-1.179715638
18A	18.00536985	0.03601074	0.035595985	0.001979736	0.035145677	-1.281260985	1011.651718	-1.165171849
21A	21.0013152	0.04200263	0.041527167	0.001976752	0.041014186	-1.25074124	1011.449447	-1.144944697
24A	24.0051755	0.048010351	0.047465055	0.001982026	0.047078682	-0.82069436	1011.488378	-1.148837826
27A	27.0000562	0.027000056	0.053400987	0.001984893	0.053092001	-0.581981348	1011.219369	-1.121936941
30A	30.0014909	0.030001491	0.059358512	0.001979362	0.058883613	-0.806504826	1010.857238	-1.085723808
35A	35.0079803	0.03500798	0.069268169	0.001979374	0.06879369	-0.689712352	1010.795604	-1.079560369
40A	40.0058518	0.040005852	0.079160828	0.001978457	0.078649652	-0.649939535	1010.7487	-1.074870016
45A	45.0049649	0.045004965	0.089051358	0.001981558	0.088679726	-0.419072068	1010.764255	-1.076425468
50A	50.0090905	0.050009091	0.098967322	0.001989757	0.099005732	0.038795968	1010.618243	-1.061824327
60A	60.0038384	0.030001919	0.118854442	0.001980781	0.118354234	-0.422636566	1009.702917	-0.970291712

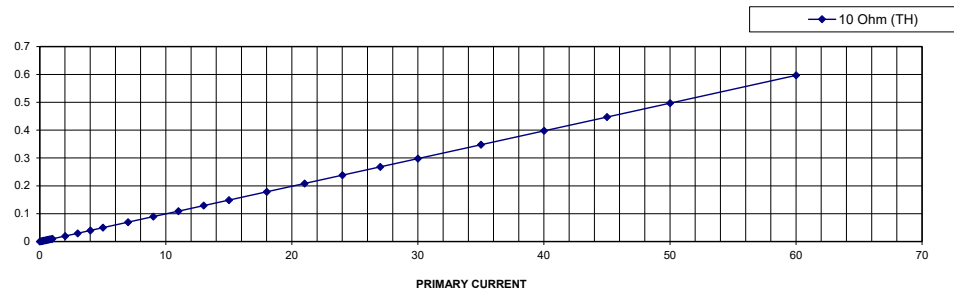
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.00049407	0.00049407	1.73839E-05	0.00918858	-0.00048953	103.5511476	284.2106012	71.57893988
0.1A	0.10003867	0.10003867	0.000932057	0.009772871	0.000483595	-92.73512793	1073.310089	-7.331008897
0.2A	0.200807993	0.200807993	0.001916863	0.009797607	0.001473368	-30.10079014	1047.586513	-4.758651257
0.3A	0.300513176	0.300513176	0.002893735	0.009785431	0.002446581	-18.27670565	1038.495736	-3.849573608
0.4A	0.400642505	0.400642505	0.003873544	0.009894635	0.003470141	-11.62496493	1034.304795	-3.430479497
0.5A	0.500678204	0.500678204	0.004863361	0.009832649	0.004428923	-9.809107364	1029.490188	-2.949018821
0.6A	0.600496552	0.600496552	0.005844839	0.009895902	0.005448385	-7.276543019	1027.396161	-2.739616098
0.7A	0.700649406	0.700649406	0.006835942	0.009735877	0.006327366	-8.037721806	1024.949279	-2.494927901
0.8A	0.800247853	0.800247853	0.00780562	0.009868303	0.007403018	-5.43835564	1025.220047	-2.522004651
0.9A	0.900472102	0.900472102	0.008794664	0.009926072	0.008444081	-4.151815498	1023.884641	-2.388464057
1A	1.00050644	1.00050644	0.009787612	0.009859596	0.009370519	-4.451117279	1022.217137	-2.221713702
2A	2.00122236	2.00122236	0.019654266	0.009864793	0.019247574	-2.112951831	1018.212718	-1.821271779
3A	3.00084931	3.00084931	0.029515379	0.010250939	0.030267453	2.484763472	1016.707029	-1.670702935
4A	4.00658826	0.040065883	0.039825148	0.009964288	0.039428727	-1.005409342	1006.044801	-0.604480122
5A	5.00861061	0.050086106	0.049809586	0.009923473	0.049208744	-1.221007446	1005.551538	-0.555153778
7A	7.005017	0.035025085	0.069620872	0.009962644	0.069294423	-0.471103745	1006.166227	-0.6166227
9A	9.00232326	0.045011616	0.089519324	0.009823011	0.08793585	-1.800714994	1005.629049	-0.562904944
11A	11.00042305	0.022000846	0.10914668	0.009890998	0.108311091	-0.771471691	1007.856863	-0.785686289
13A	13.0055255	0.026011051	0.128979144	0.009915633	0.128463946	-0.401045169	1008.343295	-0.834329463
15A	15.0055925	0.030011185	0.148811074	0.00994321	0.148709686	-0.068178426	1008.365312	-0.836531158
18A	18.00246235	0.036004925	0.17860958	0.009933321	0.178330159	-0.15668728	1007.922551	-0.792255096
21A	21.00547185	0.042010944	0.208439436	0.009948303	0.208474739	0.016933973	1007.749409	-0.774940928
24A	24.00847965	0.048016959	0.238314269	0.009936672	0.238070306	-0.102475139	1007.429381	-0.742938099
27A	27.0034279	0.027003428	0.268074086	0.009915748	0.267265103	-0.302689314	1007.312132	-0.731213162
30A	30.0023543	0.030002354	0.297810683	0.009945526	0.297895123	0.028345465	1007.430425	-0.743042519
35A	35.0038352	0.035003835	0.347553041	0.009954293	0.34794435	0.112463025	1007.150883	-0.715088262
40A	40.0052856	0.040005286	0.397338942	0.00992609	0.396601984	-0.185817933	1006.830224	-0.683022406
45A	45.000694	0.045000694	0.446923814	0.009968271	0.448085028	0.25915032	1006.898549	-0.689854938
50A	50.0053053	0.050005305	0.496811134	0.009988077	0.498962749	0.43121764	1006.525456	-0.652545561
60A	60.0011902	0.030000595	0.596650798	0.009943983	0.596156728	-0.08287586	1005.633285	-0.563328502

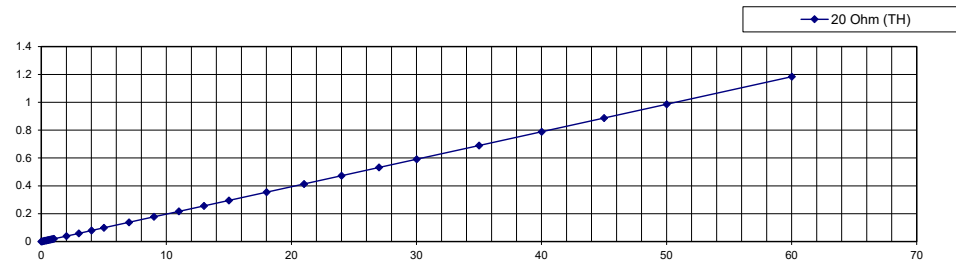
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	20
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	0.000549272	0.000549272	2.22726E-05	0.018214732	-0.000539267	104.1301635	493.2263173	50.67736827
0.1A	0.100179551	0.100179551	0.001837011	0.019191134	0.001373287	-33.76746416	1090.679688	-9.067968767
0.2A	0.200327612	0.200327612	0.003758966	0.019334883	0.003324039	-13.08430519	1065.865452	-6.586545206
0.3A	0.300411439	0.300411439	0.005694075	0.019509654	0.005311651	-7.199722801	1055.171998	-5.51719981
0.4A	0.400567864	0.400567864	0.007648092	0.01936697	0.007208514	-6.098047123	1047.497445	-4.749744506
0.5A	0.500227461	0.500227461	0.009578197	0.019450929	0.009180617	-4.330649151	1044.512799	-4.451279879
0.6A	0.60000618	0.60000618	0.011518986	0.01954166	0.011175845	-3.070379359	1041.769129	-4.176912939
0.7A	0.70025927	0.70025927	0.013478097	0.019475599	0.013088697	-2.975091404	1039.107003	-3.910700334
0.8A	0.800478981	0.800478981	0.015429936	0.019422746	0.014998228	-2.878396266	1037.566151	-3.75661512
0.9A	0.900317897	0.900317897	0.017369082	0.01953609	0.017039419	-1.934706733	1036.690237	-3.669023686
1A	1.00112442	1.00112442	0.019338448	0.019497755	0.018970407	-1.940077917	1035.372069	-3.537206904
2A	2.00087567	2.00087567	0.038831353	0.019508181	0.038484172	-0.902138485	1030.546471	-3.054647136
3A	3.00209436	3.00209436	0.058363308	0.020540321	0.06111471	4.502028918	1028.76087	-2.876086991
4A	4.00858897	4.00858897	0.07903703	0.019895675	0.07920431	0.211200393	1014.357187	-1.435718675
5A	5.00420573	5.00420573	0.098845497	0.01963371	0.097701853	-1.170545075	1012.530844	-1.253084396
7A	7.0065258	7.0065258	0.138158469	0.019717777	0.137603841	-0.403061535	1014.273805	-1.427380467
9A	9.0048494	9.0048494	0.177560968	0.019494512	0.174995869	-1.4658053	1014.282531	-1.428253083
11A	11.00260255	11.00260255	0.21650619	0.019645533	0.215602716	-0.419045686	1016.377643	-1.63776426
13A	13.00767605	13.00767605	0.255896927	0.019702154	0.255729965	-0.065288283	1016.634018	-1.663401765
15A	15.00411075	15.00411075	0.295230991	0.019691878	0.294909842	-0.108897375	1016.431961	-1.643196056
18A	18.00761945	18.00761945	0.354375717	0.019700262	0.354205548	-0.048042453	1016.300981	-1.630098148
21A	21.00642775	21.00642775	0.413453026	0.019723495	0.413770897	0.07682304	1016.145798	-1.61457979
24A	24.0054785	24.0054785	0.472604788	0.019761578	0.473836857	0.260019702	1015.879615	-1.587961483
27A	27.0070269	27.0070269	0.53192012	0.019710994	0.531786062	-0.025209011	1015.454234	-1.545423399
30A	30.0064759	30.0064759	0.59104224	0.019690621	0.59029687	-0.126270436	1015.375006	-1.537500602
35A	35.0077931	35.0077931	0.689521281	0.019774425	0.69170971	0.316379705	1015.423137	-1.542313674
40A	40.0046697	40.0046697	0.788331643	0.019725029	0.788543995	0.0269296	1014.919801	-1.49198007
45A	45.0035263	45.0035263	0.886934234	0.019777088	0.889489439	0.287266444	1014.810897	-1.481089747
50A	50.0060304	50.0060304	0.985869199	0.019785882	0.988864145	0.302867317	1014.455679	-1.445567933
60A	60.0068482	60.0068482	1.1837442	0.019726818	1.183194928	-0.046422782	1013.848232	-1.384823174

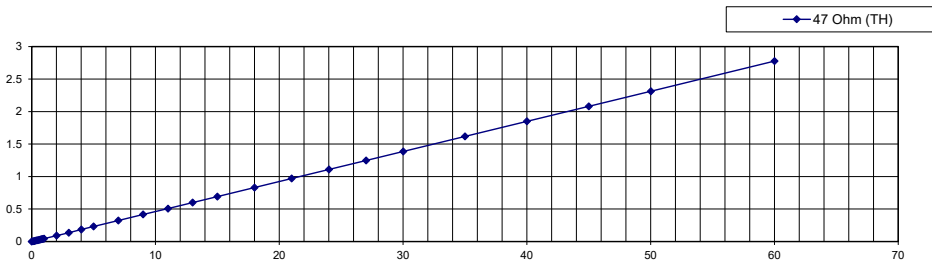
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000545103	0.000545103	1.87191E-05	0.04192713	-0.000522249	103.5843354	1368.644551	-36.86445506
0.1A	0.100056188	0.100056188	0.004190933	0.04465403	0.003922809	-6.835014741	1122.098712	-12.20987121
0.2A	0.200167168	0.200167168	0.008661292	0.044956704	0.008453753	-2.454994975	1086.195554	-8.619555413
0.3A	0.300245024	0.300245024	0.013160463	0.045070187	0.012986996	-1.335694642	1072.265965	-7.226596488
0.4A	0.400490588	0.400490588	0.017678549	0.045126838	0.01752777	-0.860226362	1064.739971	-6.47399706
0.5A	0.500106959	0.500106959	0.022173921	0.045221536	0.022070501	-0.468586138	1060.030267	-6.003026668
0.6A	0.600074747	0.600074747	0.026694618	0.045215839	0.02658778	-0.401830122	1056.524335	-5.652433504
0.7A	0.700354381	0.700354381	0.031228845	0.045282153	0.031168451	-0.193767129	1054.046523	-5.404652287
0.8A	0.800622987	0.800622987	0.035769224	0.04508092	0.03554717	-0.623124302	1052.001592	-5.200159219
0.9A	0.900225358	0.900225358	0.04025939	0.045356494	0.040285963	0.065959579	1050.949642	-5.094964208
1A	1.00126438	1.00126438	0.044842166	0.045364773	0.044877027	0.077682059	1049.445867	-4.944586653
2A	2.00179655	2.00179655	0.09023108	0.045317785	0.090171882	-0.065650397	1042.705434	-4.270543401
3A	3.00021297	3.00021297	0.135477101	0.04964539	0.148401639	8.709161316	1040.840176	-4.084017557
4A	4.00203564	0.040020356	0.185212978	0.046303347	0.184762541	-0.243792116	1015.564228	-1.556422833
5A	5.00064762	0.050006476	0.231452055	0.046062571	0.229797582	-0.719969604	1015.460581	-1.546058055
7A	7.00017036	0.035000852	0.323555213	0.046401857	0.324275802	0.22221481	1016.852746	-1.68527463
9A	9.00169096	0.045008455	0.416429486	0.045339045	0.407582968	-2.170482651	1015.969064	-1.596906402
11A	11.00783145	0.022015663	0.50738598	0.046170698	0.507694153	0.060700495	1019.673579	-1.967357898
13A	13.00016505	0.02600033	0.599373412	0.046135703	0.599226649	-0.024492066	1019.410847	-1.941084659
15A	15.00229475	0.03000459	0.691743073	0.046388943	0.695395497	0.525229792	1019.32044	-1.932043958
18A	18.00208565	0.036004171	0.830900203	0.046344877	0.833759347	0.342921958	1018.290792	-1.829079172
21A	21.0000828	0.042000166	0.969842013	0.046243013	0.970561997	0.074182154	1017.69554	-1.769554048
24A	24.0068267	0.048013653	1.10888291	0.045987602	1.103471288	-0.49041803	1017.529303	-1.752930334
27A	27.007936	0.027007936	1.24689673	0.046300294	1.249930271	0.242696823	1018.025761	-1.802576064
30A	30.0083919	0.030008392	1.38581872	0.046391634	1.391593219	0.41495593	1017.733704	-1.773370423
35A	35.0028168	0.035002817	1.61751825	0.046341461	1.621536576	0.247809746	1017.071918	-1.707191842
40A	40.0024304	0.04000243	1.84920765	0.046249477	1.84954639	0.018314736	1016.713417	-1.671341712
45A	45.0036625	0.045003663	2.08051202	0.046295395	2.082917225	0.115472889	1016.659417	-1.665941709
50A	50.0091461	0.050009146	2.31224286	0.046474348	2.32359737	0.488660805	1016.515137	-1.651513661
60A	60.0026332	0.030001317	2.77668366	0.04627603	2.776138557	-0.019635307	1015.644598	-1.564459828

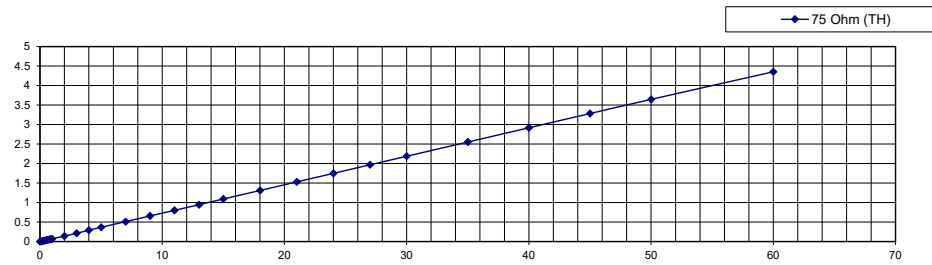
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000563291	0.000563291	3.15529E-05	0.065563225	-0.000526359		105.9945538	1338.919539	-33.89195385
0.1A	0.100448149	0.100448149	0.006580326	0.06909707	0.006377382		-3.182247622	1144.868937	-14.48689368
0.2A	0.200135747	0.200135747	0.013468447	0.070198774	0.013485993		0.130107258	1114.47005	-11.447005
0.3A	0.300132823	0.300132823	0.020488119	0.070410202	0.020569122		0.3938076	1098.683652	-9.868365151
0.4A	0.400537867	0.400537867	0.027557659	0.070491103	0.027671066		0.409839496	1090.09043	-9.009043011
0.5A	0.500099631	0.500099631	0.034575877	0.070413915	0.034650682		0.215883589	1084.787293	-8.478729258
0.6A	0.600111316	0.600111316	0.041618092	0.070624557	0.041819305		0.481150382	1081.461138	-8.146113792
0.7A	0.700289911	0.700289911	0.048693161	0.070629379	0.048897751		0.418404295	1078.626706	-7.862670621
0.8A	0.80028276	0.80028276	0.055755593	0.070705813	0.056021352		0.474388897	1076.505575	-7.650557455
0.9A	0.900606929	0.900606929	0.062849095	0.070656833	0.063070743		0.351427199	1074.725411	-7.472541108
1A	1.0017861	1.0017861	0.069998095	0.070729559	0.070292599		0.418968446	1073.371461	-7.337146104
2A	2.00052084	2.00052084	0.140638163	0.071176414	0.14182661		0.837957593	1066.844588	-6.684458755
3A	3.00064322	3.00064322	0.211823288	0.080039583	0.239606941		11.59551252	1062.433898	-6.243389773
4A	4.00125041	0.040012504	0.29191147	0.072985195	0.29146875		-0.151892618	1028.03011	-2.803011046
5A	5.00785497	0.05007855	0.3653787	0.072652074	0.363267757		-0.581098303	1027.944767	-2.794476731
7A	7.00805298	0.035040265	0.510697233	0.073152315	0.512092011		0.272368596	1029.188998	-2.918899798
9A	9.00316748	0.045015837	0.656644478	0.071716327	0.645110809		-1.787858591	1028.315296	-2.831529636
11A	11.00816005	0.02201632	0.80043518	0.072030109	0.792355682		-1.019680681	1031.45392	-3.145391954
13A	13.00900345	0.026018007	0.944556149	0.073704448	0.958258128		1.429833971	1032.945749	-3.294574895
15A	15.0001955	0.030000391	1.09131586	0.072636764	1.089002377		-0.212440563	1030.879055	-3.087905503
18A	18.0093137	0.036018627	1.30988847	0.07313268	1.316506086		0.502665069	1031.155368	-3.115536814
21A	21.0086832	0.042017366	1.5292404	0.073131495	1.535833126		0.429260552	1030.34895	-3.034894971
24A	24.0018948	0.04800379	1.74813844	0.073454901	1.762493524		0.814475817	1029.748027	-2.974802728
27A	27.002098	0.027002098	1.96851807	0.072858528	1.966769834		-0.088886685	1028.772548	-2.877254767
30A	30.0017946	0.030001795	2.18707155	0.072997998	2.189507648		0.111262356	1028.834468	-2.883446817
35A	35.0078145	0.035007815	2.55250098	0.073010936	2.555390023		0.113056831	1028.632744	-2.863274415
40A	40.0023038	0.040002304	2.91715332	0.073077893	2.922720805		0.190489815	1028.459068	-2.84590681
45A	45.0006311	0.045000631	3.28242055	0.072697947	3.270890187		-0.352514536	1028.219048	-2.821904783
50A	50.0081442	0.050008144	3.64645647	0.070762201	3.538123083		-3.061888582	1028.563167	-2.856316697
60A	60.0045986	0.030002299	4.35382759	0.072558232	4.353264299		-0.012939498	1033.652528	-3.365252803

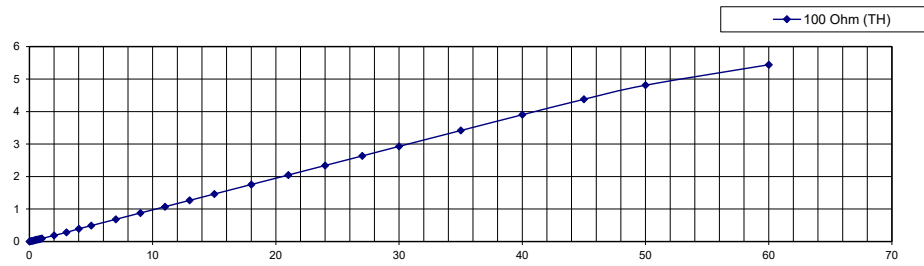
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000890413	0.000890413	4.6486E-05	0.085955321	-0.000813877	105.7116685	1915.444532	-91.54445324
0.1A	0.10024229	0.10024229	0.008586308	0.092854654	0.00841755	-2.00483884	1167.466682	-16.74666818
0.2A	0.200078047	0.200078047	0.017856523	0.09334294	0.01778546	-0.399556857	1120.475951	-12.04759509
0.3A	0.300241482	0.300241482	0.027206073	0.093503437	0.027183197	-0.084151809	1103.582595	-10.3582595
0.4A	0.400194088	0.400194088	0.036551985	0.09376726	0.03663469	0.225756365	1094.86281	-9.48628103
0.5A	0.500182869	0.500182869	0.045927659	0.094023501	0.046138531	0.457042317	1089.066767	-8.906676732
0.6A	0.600316358	0.600316358	0.05534256	0.093772941	0.055403017	0.109122941	1084.728206	-8.472820556
0.7A	0.700187229	0.700187229	0.064707745	0.093976822	0.064910958	0.313063397	1082.076382	-8.207638167
0.8A	0.80008649	0.80008649	0.07409596	0.093962014	0.074287325	0.257600959	1079.797719	-7.979771864
0.9A	0.900016275	0.900016275	0.083485564	0.094099957	0.083801079	0.37650486	1078.050179	-7.805017855
1A	1.00192912	1.00192912	0.093075559	0.094022652	0.09331362	0.255119462	1076.468554	-7.646855423
2A	2.00099668	2.00099668	0.18701054	0.095178366	0.189561182	1.345550844	1069.991392	-6.999139193
3A	3.00103658	3.00103658	0.282192704	0.108488641	0.324687967	13.08803148	1063.470649	-6.347064877
4A	4.00038782	0.040003878	0.390610962	0.097907251	0.390776563	0.042377361	1024.136087	-2.413608659
5A	5.00529016	0.050052902	0.488998188	0.097243556	0.485841799	-0.649674336	1023.580513	-2.358051274
7A	7.00208242	0.035010412	0.683173367	0.097769723	0.683701248	0.077209283	1024.934923	-2.493492256
9A	9.00368834	0.045018442	0.878869824	0.096652031	0.869334355	-1.096870165	1024.46211	-2.446210965
11A	11.00303055	0.022006061	1.07211031	0.097492256	1.071819856	-0.027099178	1026.296496	-2.629649649
13A	13.0023752	0.02600475	1.26703093	0.0974957	1.26678526	-0.019393149	1026.208192	-2.620819209
15A	15.0073787	0.030014757	1.46251015	0.097575444	1.463461223	0.064987898	1026.138431	-2.613843056
18A	18.0091527	0.036018305	1.75540958	0.097315961	1.751687584	-0.212480566	1025.923118	-2.592311818
21A	21.00413685	0.042008274	2.04686934	0.098038406	2.058321686	0.556392447	1026.159142	-2.615914165
24A	24.00054715	0.048001094	2.34063263	0.097623579	2.342128909	0.063885439	1025.38719	-2.538718987
27A	27.0090572	0.027009057	2.63433415	0.098366844	2.655905309	0.812196079	1025.270739	-2.527073872
30A	30.0012947	0.030001295	2.92867111	0.097393894	2.921052513	-0.260816842	1024.399585	-2.439958511
35A	35.00849	0.03500849	3.41634136	0.097144892	3.400005551	-0.480464183	1024.736299	-2.47362986
40A	40.0059604	0.04000596	3.90182008	0.095093173	3.803403299	-2.587597822	1025.315355	-2.531535488
45A	45.0011538	0.045001154	4.37682887	0.086855018	3.907685606	-12.0056553	1028.167999	-2.816799872
50A	50.0011705	0.050001171	4.81110541	0.06293889	3.146127739	-52.9214898	1039.286531	-3.928653062
60A	60.0091332	0.030004567	5.44099547	0.09069456	5.440105057	-0.016367571	1102.907244	-10.29072443

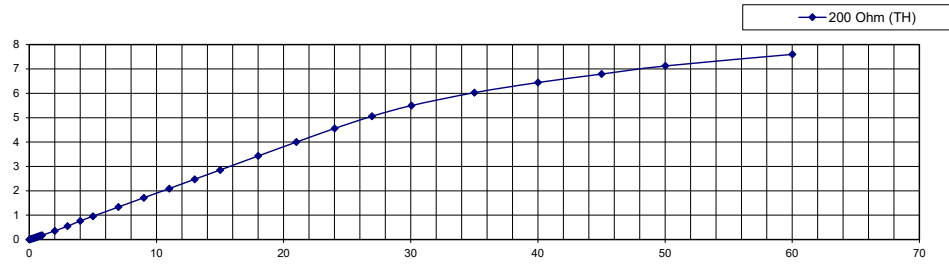
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000500703	0.000500703	5.1581E-05	0.158641152	-0.000421271	112.2441387	1941.424421	-94.14244208
0.1A	0.100297704	0.100297704	0.015883492	0.174914354	0.017042805	6.802357444	1262.917534	-26.2917534
0.2A	0.20029629	0.20029629	0.03337468	0.176494353	0.034850461	4.234608134	1200.288891	-20.02888909
0.3A	0.300206913	0.300206913	0.051008341	0.176989349	0.052632723	3.086257933	1177.089498	-17.70894976
0.4A	0.400199269	0.400199269	0.068705923	0.177897887	0.070689301	2.812092596	1164.962935	-16.49629346
0.5A	0.500464802	0.500464802	0.08654295	0.177880048	0.088522	2.235659171	1156.569783	-15.65697825
0.6A	0.600041919	0.600041919	0.104255732	0.178186867	0.106418886	2.032679094	1151.096266	-15.10962659
0.7A	0.700451468	0.700451468	0.122147395	0.178151381	0.124285693	1.720470006	1146.895467	-14.68954667
0.8A	0.800477013	0.800477013	0.139967084	0.178036879	0.142013726	1.441157678	1143.807515	-14.38075155
0.9A	0.900269051	0.900269051	0.157733747	0.178055262	0.159796938	1.291133194	1141.504679	-14.15046788
1A	1.0023804	1.0023804	0.17591521	0.18071342	0.180642887	2.617139946	1139.61766	-13.96176601
2A	2.00293355	2.00293355	0.356728592	0.189868218	0.379792721	6.072820096	1122.94534	-12.29453399
3A	3.00362633	3.00362633	0.546728347	0.216670923	0.650297786	15.92646344	1098.763708	-9.876370833
4A	4.00399037	0.040039904	0.763478147	0.190792573	0.763430921	-0.006186062	1048.881461	-4.888146065
5A	5.00564966	0.050056497	0.9545873	0.189807616	0.949609727	-0.52417038	1048.75681	-4.87568104
7A	7.003609	0.035018045	1.3338152	0.190558297	1.3340951	0.02098054	1050.161822	-5.016182152
9A	9.00310824	0.045015541	1.71483637	0.188075298	1.69276156	-1.304070837	1050.025343	-5.002534323
11A	11.0011994	0.022002399	2.09062796	0.19098972	2.100615288	0.475447723	1052.430142	-5.243014161
13A	13.0018242	0.026003648	2.47272673	0.190455106	2.475763102	0.122643885	1051.618365	-5.161836464
15A	15.0063179	0.030012636	2.85449279	0.191900046	2.879212386	0.858554109	1051.417467	-5.141746741
18A	18.0002039	0.036000408	3.42901965	0.189745483	3.414956671	-0.411805487	1049.874643	-4.987464274
21A	21.0002729	0.042000546	3.99826919	0.185778404	3.900896482	-2.496162316	1050.468185	-5.046818521
24A	24.0082792	0.048016558	4.5570918	0.170157808	4.084695449	-11.56503237	1053.666692	-5.366669155
27A	26.9481061	0.026948106	5.0573263	0.141566397	3.814445583	-32.58352203	1065.705652	-6.570565162
30A	30.0536981	0.030053698	5.49697377	0.107058517	3.217003657	-70.87247502	1093.463398	-9.34633985
35A	35.0027785	0.035002779	6.02681498	0.083084905	2.907701817	-107.2707368	1161.568046	-16.1568046
40A	40.0057672	0.040005767	6.44248782	0.069321079	2.772742241	-132.3507654	1241.935362	-24.19353615
45A	45.0089966	0.045008997	6.78931708	0.066626378	2.998285734	-126.4399621	1325.876994	-32.58769938
50A	50.0204599	0.05002046	7.12321273	0.047507255	2.375834021	-199.8194599	1404.43538	-40.44353804
60A	60.0075108	0.030003755	7.5976701	0.126611986	7.597169397	-0.006590658	1579.629281	-57.9629281

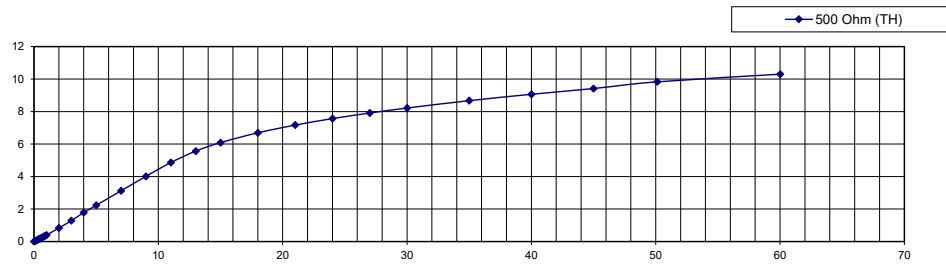
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 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	0.000558068	0.000558068	0.000101489	0.34287181	-0.000366722	127.6747356	2749.390483	-174.9390483
0.1A	0.100282278	0.100282278	0.03429411	0.388240417	0.038375566	10.63555848	1462.091866	-46.20918663
0.2A	0.200399272	0.200399272	0.073163573	0.393581668	0.078315412	6.578320112	1369.529009	-36.95290085
0.3A	0.30033232	0.30033232	0.112495389	0.397973201	0.118966147	5.439158902	1334.865023	-33.48650228
0.4A	0.400353967	0.400353967	0.152301324	0.399098466	0.159222586	4.346909849	1314.348282	-31.43482817
0.5A	0.500455825	0.500455825	0.192251822	0.400109111	0.199678867	3.3179495001	1301.563282	-30.15632825
0.6A	0.600097155	0.600097155	0.232119226	0.399830958	0.239379352	3.032895863	1292.648535	-29.26485353
0.7A	0.700291205	0.700291205	0.272179909	0.400123409	0.279644836	2.669431414	1286.449113	-28.6449113
0.8A	0.800172342	0.800172342	0.31214469	0.402589639	0.321583027	2.934961084	1281.733067	-28.17330674
0.9A	0.900192678	0.900192678	0.352411841	0.402899316	0.362128946	2.683327435	1277.188467	-27.71884671
1A	1.00323429	1.00323429	0.393927236	0.439917202	0.440781954	10.62990838	1273.375129	-27.33751291
2A	2.00349711	2.00349711	0.833960057	0.450432754	0.901882654	7.531201135	1201.194885	-20.11948853
3A	3.0003502	3.0003502	1.28297534	0.499246022	1.497354833	14.31721384	1169.293792	-16.92937917
4A	4.00022661	0.040002266	1.78215966	0.444943431	1.779316485	-0.159790315	1122.297485	-12.22974854
5A	5.00814294	0.050081429	2.23062541	0.446647353	2.23631572	0.254450186	1122.587172	-12.25871716
7A	7.0027615	0.035013808	3.12151651	0.44573838	3.120841498	-0.021629162	1121.692209	-12.16922091
9A	9.0023168	0.045011584	4.01279505	0.423717294	3.813879245	-5.215576911	1121.701543	-12.17015432
11A	11.00679085	0.022013582	4.86212537	0.352218799	3.876240583	-25.43404534	1131.890893	-13.18908926
13A	13.00625795	0.026012516	5.56637527	0.262505646	3.41365808	-63.06188667	1168.287918	-16.8287918
15A	15.00228115	0.030004562	6.09034263	0.20043381	3.006406304	-102.5788272	1231.645086	-23.16450864
18A	18.00965675	0.036019314	6.69312238	0.158137931	2.847451788	-135.0565656	1345.385287	-34.53852871
21A	21.0040355	0.042008071	7.16664724	0.133359502	2.800529639	-155.9032813	1465.401798	-46.54017978
24A	24.00155525	0.048003111	7.56639498	0.11428392	2.742433742	-175.9007397	1586.062802	-58.60628023
27A	27.0048552	0.027004855	7.90962387	0.102688192	2.772521678	-185.2862768	1707.088456	-70.7088456
30A	30.0031087	0.030003109	8.2175091	0.090602374	2.717794817	-202.3594367	1825.55981	-82.55598098
35A	35.0040091	0.035004009	8.67060255	0.078640808	2.752185496	-215.0442643	2018.54536	-101.854536
40A	40.0008475	0.040000848	9.06355796	0.070865859	2.834136336	-219.7996456	2206.685701	-120.6885701
45A	45.0004546	0.045000455	9.41785941	0.080515141	3.622659894	-159.9708415	2389.102058	-138.9102058
50A	50.1221443	0.050122144	9.83023298	0.04746044	2.378260972	-313.337018	2549.387405	-154.9387405
60A	60.009573	0.030004787	10.2994947	0.171630861	10.29893663	-0.005418695	2913.228986	-191.3228986

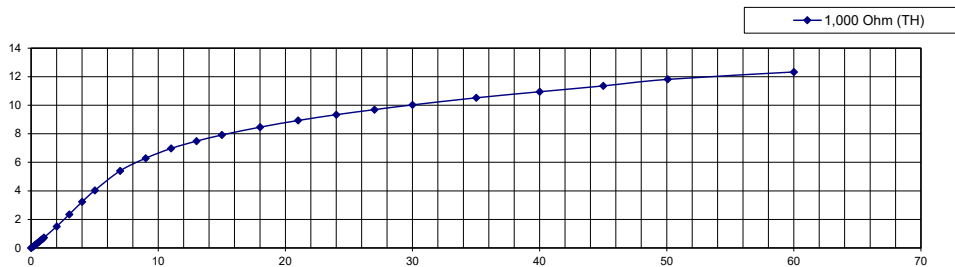
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-1000
Lot #:	31515
TURNS/RATIO:	1000
DATE:	May 26, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1000
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	0.000693043	0.000693043	0.000184621	0.609630299	-0.000270543	168.2408604	3753.871516	-275.3871516
0.1A	0.100685637	0.100685637	0.061143136	0.708358412	0.070628475	13.42990764	1646.720206	-64.67202057
0.2A	0.204339313	0.204339313	0.134567089	0.721877333	0.146814875	8.34233319	1518.493968	-51.84939685
0.3A	0.300330921	0.300330921	0.203861255	0.728604645	0.218129461	6.541164062	1473.212362	-47.3212362
0.4A	0.400165747	0.400165747	0.276601373	0.733042182	0.292645329	5.482389193	1446.723647	-44.67236466
0.5A	0.500243007	0.500243007	0.349962226	0.732986199	0.365978177	4.376203852	1429.420005	-42.94200055
0.6A	0.600163082	0.600163082	0.423202262	0.74043866	0.443690905	4.617773864	1418.147151	-41.81471506
0.7A	0.700381901	0.700381901	0.49740815	0.739812676	0.517458365	3.874749496	1408.062777	-40.8062777
0.8A	0.800277398	0.800277398	0.571312105	0.747316445	0.597367417	4.361689485	1400.770946	-40.0770946
0.9A	0.900145298	0.900145298	0.645945029	0.750717437	0.675061727	4.31319052	1393.532356	-39.35323558
1A	1.00007398	1.00007398	0.720963233	0.778918205	0.778282786	7.364874778	1387.135896	-38.71358957
2A	2.0018221	2.0018221	1.50124308	0.851463492	1.703785393	11.88778316	1333.443016	-33.34430158
3A	3.0005017	3.0005017	2.3515823	0.871310296	2.61367498	10.02774569	1275.950112	-27.59501124
4A	4.00472446	0.040047245	3.22657193	0.803430293	3.216823903	-0.303032645	1241.170055	-24.11700551
5A	5.00785273	0.050078527	4.03251557	0.688335123	3.446387879	-17.00701462	1241.86817	-24.18681696
7A	7.00006406	0.03500032	5.4038246	0.439706664	3.077281775	-75.60382816	1295.390687	-29.53906868
9A	9.00217074	0.045010854	6.28416425	0.342722595	3.084554276	-103.7300591	1432.516781	-43.25167806
11A	11.00824145	0.022016483	6.97169001	0.256839953	2.826663169	-146.640282	1578.991813	-57.89918132
13A	13.00432035	0.026008641	7.48436282	0.215199816	2.797834308	-167.5055774	1737.53206	-73.75320602
15A	15.00869325	0.030017387	7.9157035	0.183215986	2.749139494	-187.9338614	1896.065618	-89.60656182
18A	18.003863	0.036007726	8.46446648	0.155834584	2.804931465	-201.7708841	2126.993242	-112.6993242
21A	21.00262885	0.042005258	8.93177791	0.135573655	2.846710115	-213.7579012	2351.449965	-135.1449965
24A	24.00278135	0.048005563	9.33851955	0.117878512	2.828719112	-230.1324444	2570.298346	-157.0298346
27A	27.0032097	0.02700321	9.69220558	0.111103596	2.999460657	-223.1316123	2786.074798	-178.6074798
30A	30.0018896	0.03000189	10.0253697	0.098993109	2.96928728	-237.6355588	2992.596832	-199.2596832
35A	35.009124	0.035009124	10.5210514	0.085247787	2.9837573	-252.6108306	3327.530935	-232.7530935
40A	40.0075998	0.0400076	10.9471604	0.081782824	3.271241467	-234.6484969	3654.609811	-265.4609811
45A	45.0075066	0.045007507	11.3560669	0.090376818	4.066942177	-179.2286294	3963.300586	-296.3300586
50A	50.0680488	0.050068049	11.8134226	0.052307096	2.618221204	-351.2003257	4238.233956	-323.8233956
60A	60.004496	0.030002248	12.3331693	0.20553742	12.33247626	-0.005619661	4865.294114	-386.5294114