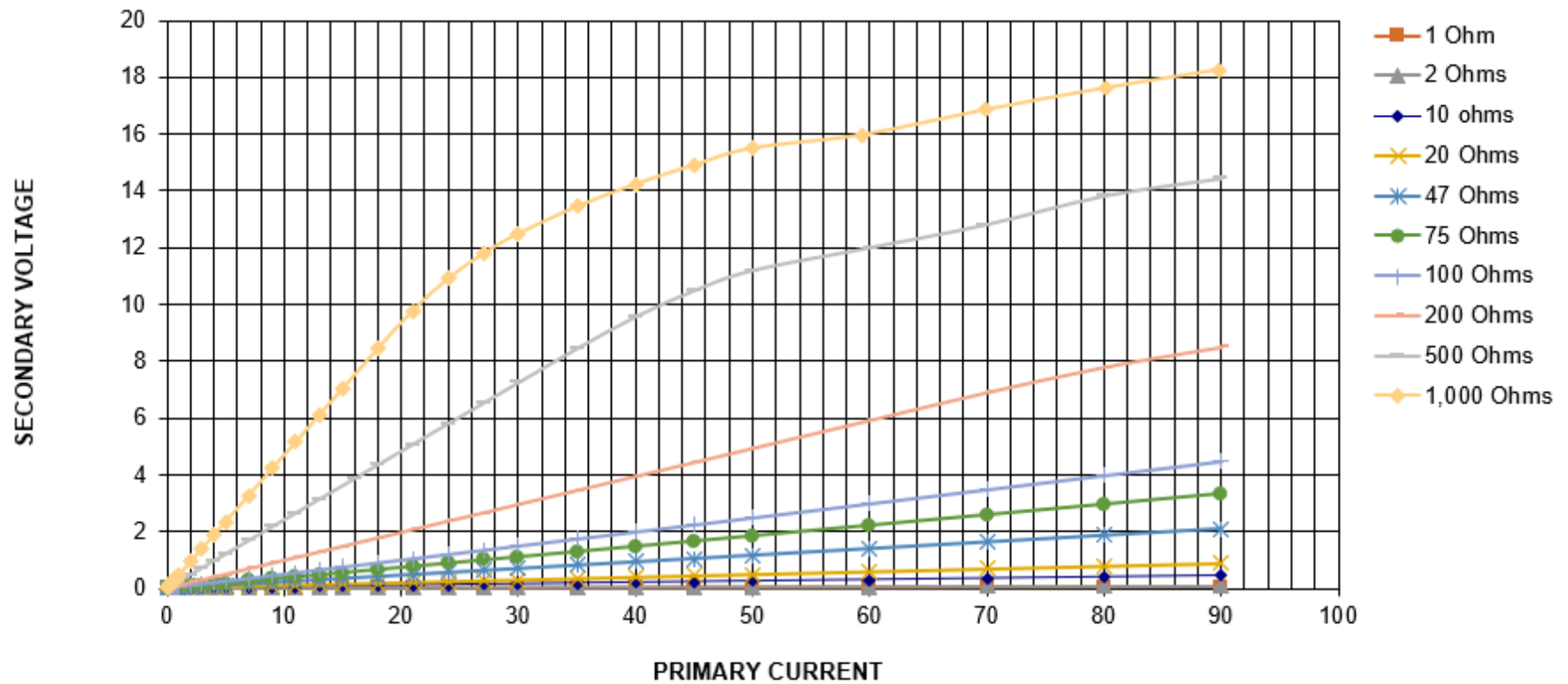


CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



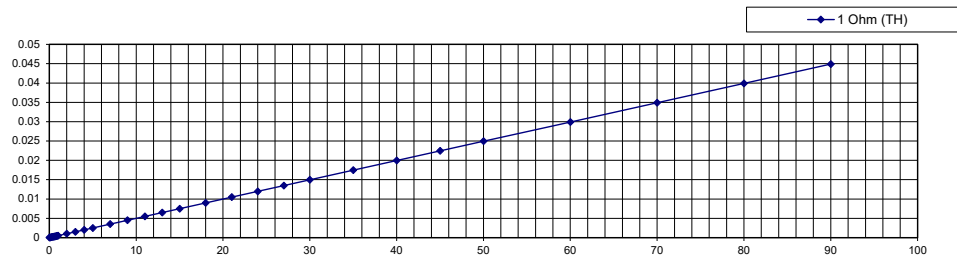
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
TURNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	1
MEASUREMENT CT TURNS RATIO:	2000
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	0.00057678	0.00057678	1.58853E-05	0.000412762	-0.000576542	102.7552658	36.30912582	98.18454371
0.1A	0.100451493	0.100451493	5.71098E-05	0.000452806	-0.000531295	110.7491579	1758.919333	12.05403333
0.2A	0.200066999	0.200066999	0.000102216	0.000479334	-0.000480881	121.2560233	1957.291364	2.135431821
0.3A	0.3003651	0.3003651	0.000150293	0.00058818	-0.000400112	137.5626663	1998.53559	0.073220507
0.4A	0.400015079	0.400015079	0.000208905	0.00046626	-0.000390269	153.5283629	1914.820639	4.258968053
0.5A	0.500506127	0.500506127	0.00025576	0.000499369	-0.000326843	178.2514803	1956.938867	2.15305663
0.6A	0.600301845	0.600301845	0.000305595	0.00044844	-0.000307581	199.3541357	1964.373382	1.781330881
0.7A	0.700177175	0.700177175	0.000350383	0.000583243	-0.000168407	308.0572351	1998.321484	0.083925817
0.8A	0.800144073	0.800144073	0.000408688	0.000426412	-0.00023559	273.4743338	1957.837633	2.108118357
0.9A	0.900048454	0.900048454	0.000451288	0.000561478	-7.14232E-05	731.8508142	1994.399085	0.280045755
1A	1.00058035	1.00058035	0.000507734	0.000499542	-7.69483E-05	759.8383249	1970.676448	1.466177604
2A	2.00177735	2.00177735	0.001007875	0.000500235	0.00042458	-137.3817236	1986.137353	0.693132374
3A	3.00092611	3.00092611	0.001507684	0.000492124	0.000900047	-67.51173889	1990.420813	0.478959371
4A	4.00454646	0.040045465	0.00200159	0.000505732	0.001448446	-38.18873098	2000.682927	-0.034146358
5A	5.00112432	0.050011243	0.002505591	0.000496436	0.001905957	-31.46104714	1995.985937	0.200703151
7A	7.00673358	0.035033668	0.003501247	0.00049745	0.002908719	-20.37078148	2001.210723	-0.060536141
9A	9.00000444	0.045000022	0.0044928	0.000498963	0.003913888	-14.79121541	2003.206264	-0.16031318
11A	11.0063766	0.022012753	0.005493905	0.000500087	0.004927365	-11.49782214	2003.379501	-0.168975074
13A	13.00419375	0.026008388	0.006492987	0.000498959	0.005911774	-9.831456493	2002.805967	-0.140298364
15A	15.0022863	0.030004573	0.007489953	0.000498563	0.006902798	-8.506041164	2002.988104	-0.149405214
18A	18.00534515	0.03601069	0.008987165	0.00049786	0.00838736	-7.15130233	2003.45094	-0.172547006
21A	21.00610125	0.042012203	0.010481122	0.000499964	0.009925511	-5.597807787	2004.184442	-0.209222118
24A	24.0023159	0.048004632	0.011979121	0.000495469	0.011315626	-5.863529575	2003.67926	-0.183963
27A	27.0037579	0.027003758	0.013466243	0.000498973	0.01289737	-4.410764888	2005.292694	-0.264634695
30A	30.0030958	0.030003096	0.014962832	0.000499108	0.014397995	-3.923022381	2005.174983	-0.258749151
35A	35.0050529	0.035005053	0.017459347	0.000499071	0.01689322	-3.351208229	2004.946296	-0.247314806
40A	40.0043312	0.040004331	0.019954341	0.000498873	0.019380316	-2.961895332	2004.793423	-0.23967116
45A	45.0014229	0.045001423	0.022447257	0.000499371	0.021895632	-2.519338023	2004.76268	-0.238133997
50A	50.0031724	0.050003172	0.024944986	0.000495398	0.024194675	-3.101140668	2004.537978	-0.226898902
60A	60.0038968	0.030001948	0.029899322	0.000500111	0.029431802	-1.588484853	2006.864798	-0.34323989
70A	70.0008294	0.035000415	0.034898894	0.000499834	0.034412001	-1.41489124	2005.818013	-0.290900626
80A	80.0029218	0.040001461	0.039898278	0.000501069	0.039510237	-0.982126646	2005.172319	-0.258615926
90A	90.002104	0.045001052	0.044908562	0.000498972	0.044331782	-1.30105393	2004.119036	-0.205951818

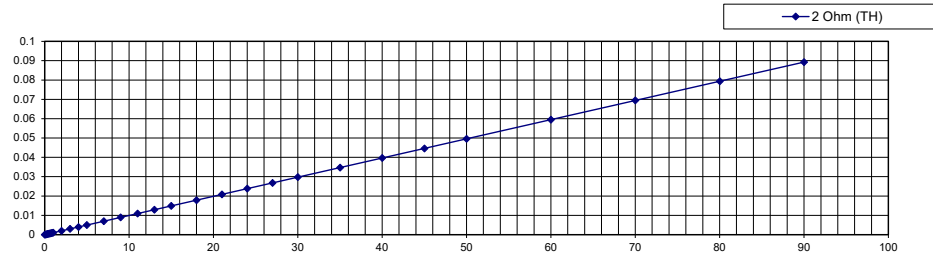
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
URNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	2
MEASUREMENT CT TURNS RATIO:	2000
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	0.000511705	0.000511705	2.04622E-05	0.000839551	-0.000511275	104.0021987	50.01452089	97.49927396
0.1A	0.100313643	0.100313643	0.000104251	0.00094549	-0.000416859	125.0086961	1924.463272	3.7768364
0.2A	0.20029193	0.20029193	0.00019878	0.00099799	-0.000311815	163.7491132	2015.217122	-0.760856109
0.3A	0.300148317	0.300148317	0.000298435	0.00105008	-0.000196525	251.8561352	2011.480758	-0.574037875
0.4A	0.40016759	0.40016759	0.000403463	0.000931747	-0.00013885	390.5758151	1983.662306	0.816884711
0.5A	0.500324633	0.500324633	0.000496784	0.0009756	-2.35881E-05	2206.084993	2014.252301	-0.712615067
0.6A	0.600349377	0.600349377	0.000594369	0.000994606	8.54062E-05	-595.9318236	2020.124825	-1.006241253
0.7A	0.700134101	0.700134101	0.000693615	0.001045104	0.000220009	-215.2673557	2018.797355	-0.939867744
0.8A	0.800335778	0.800335778	0.000798336	0.001007999	0.000295033	-170.592327	2005.009248	-0.250462385
0.9A	0.900231652	0.900231652	0.000899031	0.000982602	0.000372865	-141.1147103	2002.670613	-0.133530632
1A	1.00185007	1.00185007	0.000998882	0.000985724	0.000475843	-109.9182213	2005.943579	-0.297178964
2A	2.00187079	2.00187079	0.001984626	0.000995636	0.001481429	-33.96698853	2017.378113	-0.868905665
3A	3.00067292	3.00067292	0.002979069	0.000994614	0.002472808	-20.47315327	2014.503597	-0.725179838
4A	4.00287201	0.04002872	0.003975871	0.000985271	0.003432208	-15.84002351	2013.582493	-0.679124668
5A	5.00115403	0.05001154	0.004959449	0.000990212	0.004440497	-11.68679256	2016.8184	-0.840920025
7A	7.00487446	0.035024372	0.006943557	0.000991759	0.006435445	-7.895521772	2017.661758	-0.883087907
9A	9.00303076	0.045015154	0.008925247	0.000988962	0.008391951	-6.354848179	2017.430081	-0.871504073
11A	11.00311855	0.022006237	0.010903258	0.000992134	0.010404863	-4.790018224	2018.317599	-0.915879931
13A	13.0038918	0.026007784	0.012888293	0.000992338	0.012392554	-4.000293894	2017.93859	-0.896929492
15A	15.00136135	0.030002723	0.014870458	0.000992345	0.014374818	-3.447972995	2017.605786	-0.880289278
18A	18.0011378	0.036002276	0.017847271	0.000992195	0.01734893	-2.87246175	2017.242625	-0.862131252
21A	21.0051884	0.042010377	0.020827874	0.000991883	0.020322986	-2.484319366	2017.026635	-0.851331726
24A	24.0096889	0.048019378	0.023807987	0.00098849	0.023221629	-2.525051628	2016.944028	-0.847201393
27A	27.0043857	0.027004386	0.026768215	0.000990858	0.026245805	-1.990452082	2017.64563	-0.882281477
30A	30.006785	0.030006785	0.029743166	0.000991257	0.029232729	-1.746112814	2017.726371	-0.886318564
35A	35.0032311	0.035003231	0.034695928	0.000991403	0.034190618	-1.477920108	2017.71409	-0.88570452
40A	40.0089899	0.04000899	0.039658654	0.000992499	0.039197179	-1.17731771	2017.667564	-0.88337819
45A	45.006525	0.045006525	0.044618703	0.000992602	0.044161853	-1.034489471	2017.383845	-0.869192237
50A	50.0038612	0.050003861	0.049579068	0.000992794	0.049131841	-0.910259137	2017.136006	-0.8568003
60A	60.003246	0.030001623	0.059506399	0.000991802	0.058999624	-0.858947263	2016.698937	-0.83494684
70A	70.0036656	0.035001833	0.069424834	0.000993889	0.069064141	-0.522257266	2016.675073	-0.833753674
80A	80.0085204	0.04000426	0.079368545	0.000992078	0.078863001	-0.641039969	2016.126683	-0.806334175
90A	90.0014816	0.045000741	0.089282343	0.00099201	0.088770639	-0.576434605	2016.109306	-0.805465306

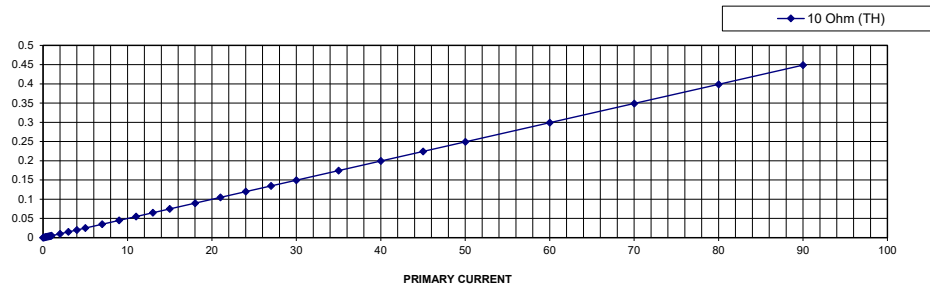
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
TURNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	10
MEASUREMENT CT TURNS RATIO:	2000
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	0.000705855	0.000705855	2.41551E-05	0.004734797	-0.000702513	103.4383836	292.2179231	85.38910385
0.1A	0.100254676	0.100254676	0.000495499	0.004891536	-0.000215455	329.9774839	2023.309068	-1.165453402
0.2A	0.200241565	0.200241565	0.000984588	0.004960857	0.000287515	-242.4473722	2033.759868	-1.68799338
0.3A	0.300039145	0.300039145	0.00147967	0.00498681	0.000785244	-88.43428103	2027.744255	-1.387212764
0.4A	0.400297223	0.400297223	0.00197792	0.004961226	0.00128011	-54.51170693	2023.828913	-1.191445649
0.5A	0.500392907	0.500392907	0.002474518	0.00493367	0.001762919	-40.36480757	2022.183698	-1.109184895
0.6A	0.600290994	0.600290994	0.002967382	0.005035811	0.002317097	-28.06460666	2022.965181	-1.148259071
0.7A	0.700987626	0.700987626	0.003474471	0.004883046	0.0027171	-27.87421951	2017.537732	-0.876886592
0.8A	0.800022591	0.800022591	0.003958063	0.004986592	0.003283531	-20.54287857	2021.247601	-1.06230059
0.9A	0.900362787	0.900362787	0.004458419	0.005023597	0.003817205	-16.79798586	2019.466572	-0.973328578
1A	1.00149366	1.00149366	0.00496646	0.004984925	0.004286516	-15.86238313	2016.514247	-0.825712339
2A	2.0007243	2.0007243	0.0099443	0.004985994	0.009266494	-7.314588558	2011.27528	-0.563763978
3A	3.00061819	3.00061819	0.014933015	0.004985429	0.014253514	-4.767247892	2009.385426	-0.469271288
4A	4.00332709	0.040033271	0.019931949	0.004988458	0.019264573	-3.464262143	2008.497599	-0.424879934
5A	5.0005427	0.050005427	0.024906517	0.004980569	0.024199693	-2.9207941	2007.724645	-0.386232254
7A	7.00391248	0.035019562	0.034884438	0.004988697	0.034234543	-1.898360306	2007.746979	-0.387348939
9A	9.0010286	0.045005143	0.044847445	0.004961242	0.043950425	-2.040980897	2007.032632	-0.351631624
11A	11.0060225	0.022012045	0.054794705	0.004989	0.054203196	-1.091281088	2008.592348	-0.429617425
13A	13.0029982	0.026005996	0.064757617	0.00499324	0.064221233	-0.835213547	2007.948829	-0.397441429
15A	15.00223855	0.030004477	0.074740304	0.004993275	0.074204444	-0.722140029	2007.248805	-0.362440258
18A	18.0030408	0.036006082	0.089724134	0.004988148	0.089095972	-0.705039675	2006.488114	-0.324405695
21A	21.006659	0.042013318	0.104706625	0.004990426	0.104126331	-0.55729778	2006.23972	-0.311985989
24A	24.0002072	0.048000414	0.119645707	0.00496193	0.118381501	-1.06790823	2005.939687	-0.296984329
27A	27.0045404	0.02700454	0.134552999	0.004966058	0.133400255	-0.864124581	2006.981168	-0.349084007
30A	30.0016084	0.030001608	0.149436612	0.004985683	0.148872651	-0.378821221	2007.647791	-0.382389558
35A	35.0011829	0.035001183	0.174362905	0.004991344	0.173997087	-0.210243913	2007.375531	-0.368776547
40A	40.0029252	0.040002925	0.199328321	0.004977742	0.198418378	-0.458598386	2006.886177	-0.344308825
45A	45.0068521	0.045006852	0.224236577	0.004984485	0.223630127	-0.271184272	2007.11466	-0.355732999
50A	50.0069036	0.050006904	0.249159259	0.004986611	0.248659124	-0.201132634	2007.025699	-0.351284959
60A	60.0041162	0.030002058	0.29901147	0.004993299	0.298912648	-0.03306047	2006.749647	-0.337482371
70A	70.0071822	0.035003591	0.348959771	0.004978245	0.347807024	-0.331432808	2006.167702	-0.308385118
80A	80.0004402	0.04000022	0.398708654	0.004997829	0.399122693	0.103737207	2006.488683	-0.324434142
90A	90.0066194	0.04500331	0.44871783	0.004985387	0.448011975	-0.157552622	2005.862334	-0.293116723

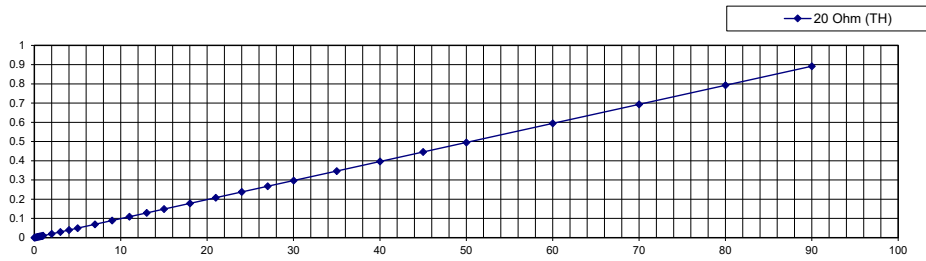
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
TURNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	20
MEASUREMENT CT TURNS RATIO:	2000
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	0.000730893	0.000730893	1.46179E-05	0.009621941	-0.000723861	102.0194371	999.9969257	50.00015372
0.1A	0.100076158	0.100076158	0.000970512	0.009736959	0.000243544	-298.4952595	2062.336886	-3.116844304
0.2A	0.200286521	0.200286521	0.001946256	0.009815608	0.001235041	-57.58639757	2058.171986	-2.908599284
0.3A	0.300180582	0.300180582	0.002926777	0.009844748	0.002224309	-31.58142775	2051.270329	-2.563516446
0.4A	0.400359973	0.400359973	0.003913018	0.0098649	0.003218618	-21.57449145	2046.29751	-2.314875492
0.5A	0.500251742	0.500251742	0.004898441	0.009874852	0.004209019	-16.37963206	2042.493892	-2.124694575
0.6A	0.600167642	0.600167642	0.005885095	0.009848045	0.005179584	-13.62099172	2039.619128	-1.980956383
0.7A	0.700103911	0.700103911	0.006869272	0.00988432	0.006189158	-10.98879557	2038.36419	-1.918209506
0.8A	0.800369271	0.800369271	0.007860327	0.009914126	0.007204069	-9.109553117	2036.478302	-1.823915082
0.9A	0.900263842	0.900263842	0.008850694	0.009923558	0.008202927	-7.89678478	2034.334942	-1.71674711
1A	1.00122641	1.00122641	0.009852602	0.00990475	0.009186004	-7.256676578	2032.410089	-1.620504473
2A	2.00067652	2.00067652	0.019751905	0.009912604	0.019101021	-3.407589692	2025.806108	-1.290305397
3A	3.00130475	3.00130475	0.029670737	0.009907059	0.029003211	-2.3015583	2023.073967	-1.153698351
4A	4.00430652	0.40043065	0.039607535	0.009915504	0.038973823	-1.625992341	2021.992305	-1.099615271
5A	5.00095964	0.050009596	0.049489853	0.009904868	0.048802953	-1.407495596	2021.004059	-1.050202968
7A	7.00607856	0.035030393	0.069350291	0.009903357	0.068652804	-1.015962545	2020.490019	-1.024500961
9A	9.00553362	0.045027668	0.089151609	0.009895566	0.088383962	-0.868535973	2020.273949	-1.013697469
11A	11.00377715	0.022007554	0.10892536	0.009878736	0.107972516	-0.882487968	2020.425207	-1.021260338
13A	13.0014217	0.026002843	0.128659563	0.009918988	0.128230057	-0.334949843	2021.057961	-1.052898027
15A	15.00300315	0.030006006	0.148513226	0.009897033	0.147754323	-0.513624786	2020.426538	-1.021326882
18A	18.00271005	0.03600542	0.178201424	0.009926087	0.177965564	-0.13253105	2020.490033	-1.024501634
21A	21.00607295	0.042012146	0.208013064	0.009899715	0.207223247	-0.381142836	2019.687855	-0.98439274
24A	24.0079799	0.04801596	0.237731088	0.009879937	0.23646643	-0.534815222	2019.759393	-0.987969651
27A	27.000669	0.027000669	0.267298667	0.00990243	0.266641349	-0.24651748	2020.262151	-1.013107559
30A	30.0062023	0.030006202	0.297060751	0.00989168	0.296080856	-0.330955157	2020.206453	-1.010322633
35A	35.0018328	0.035001833	0.346475929	0.009899824	0.345781077	-0.200951453	2020.448168	-1.022408399
40A	40.0009739	0.040000974	0.395966544	0.009927424	0.396375723	0.103230047	2020.421902	-1.021095105
45A	45.0061473	0.045006147	0.445655021	0.009912322	0.44538452	-0.060734331	2019.77517	-0.988758522
50A	50.0039776	0.050003978	0.495195123	0.009915038	0.495060425	-0.02720844	2019.566643	-0.978332131
60A	60.008297	0.030004149	0.594388326	0.009897707	0.593213656	-0.198018021	2019.161359	-0.958067942
70A	70.0050742	0.035002537	0.693333499	0.009923519	0.693965798	0.091113878	2019.376658	-0.968832894
80A	80.0003418	0.040000171	0.792521728	0.00992299	0.79311117	0.074386956	2018.880719	-0.944035947
90A	90.0014994	0.04500075	0.891763115	0.009908314	0.89103222	-0.082027696	2018.506886	-0.925344283

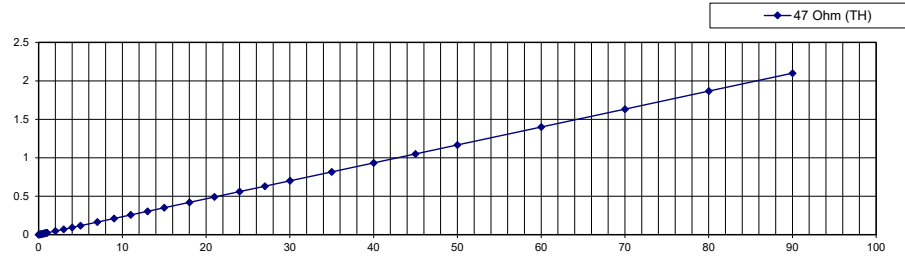
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
URNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	47
MEASUREMENT CT TURNS RATIO:	2000
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	0.000599764	0.000599764	1.85793E-05	0.022506995	-0.000586265	103.1690876	1517.22489	24.13875549
0.1A	0.100075084	0.100075084	0.00225747	0.023000486	0.001702011	-32.63540713	2083.540114	-4.177005723
0.2A	0.20026848	0.20026848	0.004561967	0.023157313	0.004037916	-12.97825213	2063.280888	-3.164044407
0.3A	0.300032337	0.300032337	0.006872229	0.023206894	0.006363055	-8.002050385	2051.957066	-2.597853288
0.4A	0.400264613	0.400264613	0.009198309	0.02322196	0.008695165	-5.786487452	2045.205935	-2.260296738
0.5A	0.500390209	0.500390209	0.011523422	0.023233566	0.011026085	-4.510550224	2040.91632	-2.045816022
0.6A	0.600016005	0.600016005	0.013838084	0.023310394	0.013386845	-3.370764914	2037.908674	-1.895433717
0.7A	0.700414287	0.700414287	0.016178408	0.023295256	0.015716566	-2.938569131	2034.778187	-1.738909331
0.8A	0.800420908	0.800420908	0.018508088	0.023324246	0.018077454	-2.382156503	2032.613163	-1.630658137
0.9A	0.90052793	0.90052793	0.02084401	0.023354369	0.020431498	-2.01899899	2030.550433	-1.527521629
1A	1.00077619	1.00077619	0.023185245	0.023343821	0.022762176	-1.858647207	2028.724818	-1.436240903
2A	2.00029452	2.00029452	0.046517821	0.02334672	0.046100552	-0.905127745	2021.028496	-1.051424822
3A	3.00047233	3.00047233	0.069868693	0.023335067	0.069416459	-0.651479909	2018.388979	-0.91944894
4A	4.00268877	0.040026888	0.093255481	0.023397039	0.0930513	-0.219427941	2017.322426	-0.866121316
5A	5.00359503	0.05003595	0.116673723	0.023281695	0.115892409	-0.674171719	2015.612088	-0.780604391
7A	7.00224294	0.035011215	0.163205634	0.023330819	0.1627683	-0.268685088	2016.507703	-0.825385164
9A	9.00419712	0.045020986	0.209912865	0.023313897	0.209323164	-0.281718017	2016.061591	-0.803079564
11A	11.0058117	0.022011623	0.256578302	0.023338827	0.256262968	-0.12305108	2016.044014	-0.802200706
13A	13.00698955	0.026013979	0.303283445	0.023338289	0.302961121	-0.106391229	2015.700227	-0.785011337
15A	15.0009159	0.030001832	0.349818275	0.023340377	0.349527275	-0.083255204	2015.45516	-0.772757984
18A	18.0071525	0.036014305	0.419984972	0.02331627	0.419259868	-0.172948509	2015.158217	-0.757910869
21A	21.001202	0.042002404	0.489795039	0.023375396	0.490311658	0.105365494	2015.24396	-0.762198002
24A	24.0014244	0.048002849	0.559926427	0.023269315	0.557896935	-0.363775408	2014.66995	-0.73349751
27A	27.0023716	0.027002372	0.629756412	0.023326778	0.629278562	-0.075936225	2015.241832	-0.762091582
30A	30.0022857	0.030002286	0.699734742	0.023298248	0.698400922	-0.190981993	2015.202824	-0.760141184
35A	35.0027669	0.035002767	0.816237192	0.023340385	0.816378297	0.017284282	2015.504881	-0.775244036
40A	40.0043054	0.040004305	0.932975027	0.023367679	0.934208007	0.13198133	2015.276186	-0.763809287
45A	45.0005056	0.045000506	1.04972463	0.023383033	1.051648544	0.182942718	2014.836751	-0.741837562
50A	50.0062108	0.050006211	1.1667732	0.023285948	1.163842256	-0.25183344	2014.351982	-0.717599084
60A	60.0019018	0.030000951	1.39953234	0.023258272	1.394940791	-0.329157291	2015.022664	-0.751133218
70A	70.0054416	0.035000721	1.63219739	0.023469327	1.642380821	0.620040809	2015.844269	-0.792213471
80A	80.006541	0.040003271	1.86691646	0.02326378	1.860654817	-0.33652899	2014.180874	-0.709043698
90A	90.0008802	0.04500044	2.09942257	0.023326689	2.098822806	-0.028576214	2014.859433	-0.742971659

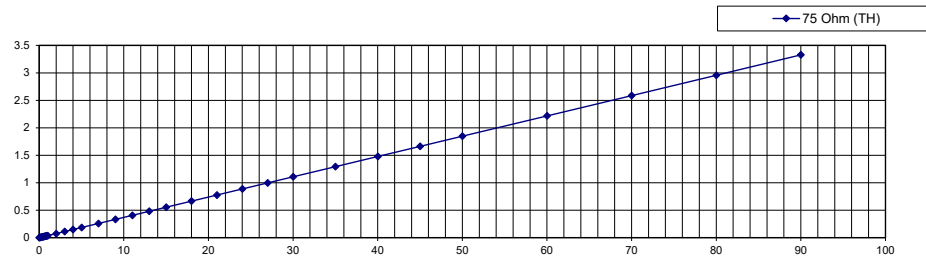
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
URNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	75
MEASUREMENT CT TURNS RATIO:	2000
FREQUENCY(Hz):	60

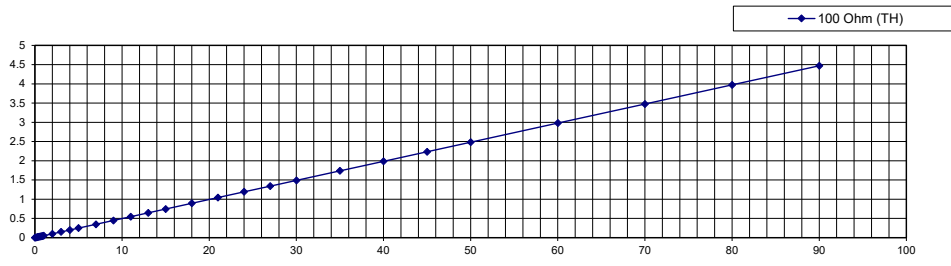


Input Current R	Primary Current	MEASURED CURRENT	Secondary Voltage	Slope	Normalized Output	% Linear Error Affected by Core and DCR	Equivalent Turns Ratio	% Absolute Error Affected by turns ratio
0A	0.000732366	0.000732366	3.03047E-05	0.035517796	-0.000706354	104.2902967	1812.507085	9.374645754
0.1A	0.100263512	0.100263512	0.003565432	0.036344911	0.002911703	-22.45176822	2109.075228	-5.45376138
0.2A	0.200206889	0.200206889	0.007197865	0.036714679	0.006618166	-8.759203056	2086.107106	-4.30535528
0.3A	0.300290959	0.300290959	0.010872419	0.036667061	0.010278421	-5.779076422	2071.46372	-3.573186016
0.4A	0.400058251	0.400058251	0.014530593	0.036868785	0.014017296	-3.661881161	2064.910191	-3.245509839
0.5A	0.500058442	0.500058442	0.018217478	0.036886658	0.017713119	-2.847375977	2058.703348	-2.935167382
0.6A	0.600414501	0.600414501	0.021919278	0.036874843	0.021407825	-2.389092009	2054.405633	-2.720281643
0.7A	0.700375403	0.700375403	0.02560532	0.036869824	0.025090352	-2.052454132	2051.454722	-2.572736075
0.8A	0.800048607	0.800048607	0.029280254	0.036847599	0.028747505	-1.853200212	2049.28707	-2.464353511
0.9A	0.900238697	0.900238697	0.032972018	0.036900247	0.032486665	-1.494008393	2047.733386	-2.386669312
1A	1.00056392	1.00056392	0.036674044	0.036990819	0.036279313	-1.088032444	2046.196346	-2.30981729
2A	2.00166895	2.00166895	0.073705738	0.036977117	0.073283582	-0.576058163	2036.817959	-1.840897952
3A	3.00131531	3.00131531	0.110669779	0.036905236	0.110031883	-0.579737623	2033.966728	-1.698336386
4A	4.00070522	0.040007052	0.147552499	0.036984068	0.147229988	-0.219052646	2033.533105	-1.67665527
5A	5.00701613	0.050070161	0.18476997	0.036941254	0.184233091	-0.291413151	2032.398499	-1.619924967
7A	7.00129568	0.035006478	0.258441158	0.036976843	0.258153446	-0.111450133	2031.786191	-1.589309548
9A	9.00144864	0.045007243	0.3324005	0.03685028	0.330973541	-0.431139823	2031.009725	-1.550486236
11A	11.00433185	0.022008664	0.406207308	0.036918723	0.405533517	-0.166149266	2031.782473	-1.589123644
13A	13.0067119	0.026013424	0.480132623	0.036931797	0.479628878	-0.105028147	2031.73737	-1.586668479
15A	15.0026939	0.030005388	0.553847825	0.037023356	0.554717713	0.156816269	2031.608669	-1.580433443
18A	18.0016878	0.036003376	0.664880644	0.037023165	0.665747084	0.130145485	2030.630004	-1.531500216
21A	21.004666	0.042009332	0.7760604	0.036921084	0.774782665	-0.16491527	2029.932142	-1.496607094
24A	24.0014168	0.048002834	0.886703687	0.036760807	0.88157908	-0.581298652	2030.110268	-1.50551342
27A	27.002465	0.027002465	0.99702464	0.036945918	0.996898499	-0.012653365	2031.228511	-1.561425553
30A	30.0069923	0.030006992	1.10802966	0.036835748	1.10459765	-0.310702294	2031.104856	-1.555242777
35A	35.0014262	0.035001426	1.29200337	0.037111192	1.298212278	0.478266001	2031.811237	-1.590561834
40A	40.0081824	0.040008182	1.47781006	0.03677115	1.470414519	-0.502956234	2030.446105	-1.522305241
45A	45.0090344	0.045009034	1.66169714	0.037124142	1.670189414	0.508461726	2031.463796	-1.573189805
50A	50.0074333	0.050007433	1.84725841	0.036863675	1.842725415	-0.245994075	2030.337216	-1.516860803
60A	60.003569	0.030001785	2.21575271	0.03697711	2.218026204	0.102500773	2031.033362	-1.551668079
70A	70.0038362	0.035001918	2.58553369	0.037045051	2.592563313	0.271145678	2030.639839	-1.531991931
80A	80.0022306	0.040001115	2.95592472	0.037167866	2.972779844	0.566981924	2029.878249	-1.493912453
90A	90.0031652	0.045001583	3.32763812	0.036972457	3.328905754	-0.022013416	2028.537102	-1.426855123

CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
URNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG



TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	100
MEASUREMENT CT TURNS RATIO:	2000
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	0.000592496	0.000592496	2.18775E-05	0.047622621	-0.00056428	103.8770738	2708.238229	-35.41191143
0.1A	0.10009259	0.10009259	0.004760333	0.048932525	0.004305287	-10.56945927	2102.63847	-5.131923485
0.2A	0.200127547	0.200127547	0.009655296	0.049233612	0.009260506	-4.263155477	2072.723093	-3.636154656
0.3A	0.3001758	0.3001758	0.014581033	0.049483071	0.014281124	-2.243218658	2058.673114	-2.933655721
0.4A	0.40020767	0.40020767	0.019530917	0.04951121	0.01922227	-1.6056731	2049.098228	-2.454911384
0.5A	0.500150714	0.500150714	0.024479218	0.049488257	0.024169091	-1.325077391	2043.164606	-2.158230317
0.6A	0.600082975	0.600082975	0.029424691	0.049475422	0.029096863	-1.126679925	2039.385803	-1.969290165
0.7A	0.700361046	0.700361046	0.034385991	0.049681967	0.034202819	-0.535547899	2036.762715	-1.838135763
0.8A	0.800238148	0.800238148	0.039348082	0.049565092	0.039071382	-0.708192158	2033.741182	-1.687059105
0.9A	0.900196865	0.900196865	0.044302545	0.049540869	0.044004039	-0.678360968	2031.930367	-1.596518326
1A	1.00052033	1.00052033	0.049272657	0.049705189	0.049138556	-0.272902751	2030.579228	-1.5289614
2A	2.00018717	2.00018717	0.098961286	0.049654778	0.098726353	-0.237963125	2021.181471	-1.059073548
3A	3.00021433	3.00021433	0.148617412	0.049596918	0.148208889	-0.275640232	2018.750219	-0.937510943
4A	4.0044235	0.040044235	0.198423092	0.049711863	0.198474855	0.026080244	2018.123727	-0.906186363
5A	5.00448784	0.050044878	0.248138153	0.049652298	0.247891826	-0.099368609	2016.815141	-0.840757044
7A	7.00311094	0.035015555	0.347374383	0.049727676	0.347655934	0.080985627	2016.012488	-0.80062438
9A	9.0046405	0.045023203	0.446905796	0.049418276	0.444401316	-0.563562712	2014.885593	-0.744279674
11A	11.00432935	0.022008659	0.545726972	0.04982953	0.547748064	0.36898196	2016.453266	-0.822663297
13A	13.0010061	0.026002012	0.645220436	0.049594246	0.644182599	-0.161109111	2014.971221	-0.74856107
15A	15.0060659	0.030012132	0.744659865	0.049652864	0.744501656	-0.021250312	2015.157068	-0.757853386
18A	18.0030513	0.036006103	0.893468774	0.049713689	0.894405595	0.104742302	2014.961443	-0.748072142
21A	21.00330655	0.042006613	1.04262253	0.049694984	1.043166488	0.052144874	2014.468894	-0.723444706
24A	24.00598545	0.048011971	1.19184061	0.049218465	1.180945257	-0.92259591	2014.194285	-0.709714238
27A	27.0008255	0.027000826	1.33924204	0.049814195	1.344431903	0.386026471	2016.127384	-0.806369176
30A	30.0082869	0.030008287	1.48905631	0.049699521	1.490804984	0.117297299	2015.255347	-0.762767326
35A	35.0019109	0.035001911	1.73723703	0.049448424	1.730196835	-0.406901396	2014.803409	-0.740170442
40A	40.0009137	0.040000914	1.98442984	0.049893587	1.995196591	0.539633591	2015.738369	-0.786918473
45A	45.0064806	0.045006481	2.23417553	0.049592119	2.231374229	-0.125541535	2014.455892	-0.722794596
50A	50.0051152	0.050005115	2.48206841	0.049770142	2.488169191	0.24519157	2014.654995	-0.732749747
60A	60.0052916	0.030002646	2.97977861	0.049581455	2.974557178	-0.175536462	2013.749995	-0.687499733
70A	70.0030012	0.035001501	3.4754796	0.049854171	3.48934911	0.397481306	2014.196867	-0.709843326
80A	80.0067864	0.040003393	3.97421002	0.049622865	3.969573439	-0.116803012	2013.149431	-0.657471544
90A	90.0017928	0.045000896	4.47019087	0.049667798	4.469598374	-0.013256132	2013.376955	-0.668847726

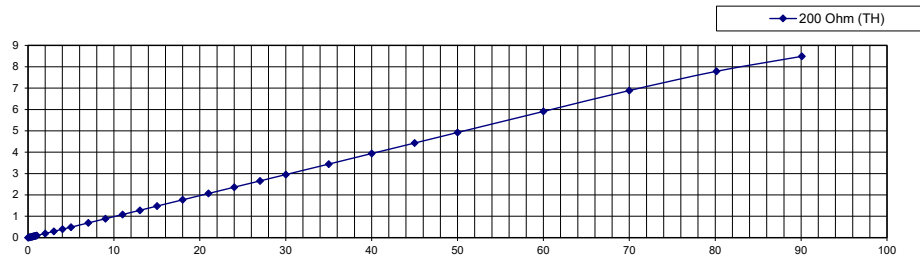
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
URNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	200
MEASUREMENT CT TURNS RATIO:	2000
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	0.000583725	0.000583725	5.01536E-05	0.093259862	-0.000529287	109.4757035	2327.746552	-16.38732761
0.1A	0.100030441	0.100030441	0.009324541	0.097158529	0.009135086	-2.073923978	2145.530702	-7.27653508
0.2A	0.200493292	0.200493292	0.019085364	0.097714023	0.019007282	-0.410800155	2101.016226	-5.050811319
0.3A	0.300393831	0.300393831	0.028847047	0.09793119	0.028834201	-0.044552463	2082.666069	-4.133303474
0.4A	0.400430772	0.400430772	0.038643784	0.098115152	0.038704602	0.15713323	2072.420103	-3.621005146
0.5A	0.50037371	0.50037371	0.0484497	0.098188704	0.048547322	0.201084799	2065.538923	-3.276946167
0.6A	0.600138601	0.600138601	0.058245486	0.098312718	0.058417532	0.294511391	2060.72142	-3.036070995
0.7A	0.700052279	0.700052279	0.068068271	0.098369886	0.068280338	0.310582993	2056.912182	-2.84560908
0.8A	0.80049046	0.80049046	0.077948363	0.098353441	0.078147267	0.254523943	2053.899328	-2.694966909
0.9A	0.900291039	0.900291039	0.087764094	0.098603191	0.088187845	0.480509682	2051.615872	-2.580793582
1A	1.00019148	1.00019148	0.097614596	0.098530687	0.097965829	0.358526376	2049.266237	-2.463311837
2A	2.000737	2.000737	0.196199034	0.098493788	0.19647644	0.141190667	2039.497299	-1.974864973
3A	3.00044658	3.00044658	0.294664217	0.098430528	0.294751815	0.029719236	2036.519134	-1.825956696
4A	4.00588058	0.040058806	0.393629616	0.098639656	0.394554959	0.23452824	2035.355277	-1.767763836
5A	5.00057991	0.050005799	0.491746416	0.098476328	0.491855024	0.022081333	2033.804313	-1.690215674
7A	7.00411122	0.035020556	0.689046823	0.098630804	0.690237393	0.172487075	2032.985564	-1.649278194
9A	9.00054208	0.04500271	0.885956403	0.098180639	0.88309525	-0.323991444	2031.825054	-1.591252679
11A	11.00109085	0.022002182	1.08237156	0.098494609	1.082964413	0.054743494	2032.775298	-1.63876488
13A	13.0080805	0.026016161	1.28004922	0.098462089	1.280219059	0.013266398	2032.434425	-1.621721234
15A	15.00593055	0.030011861	1.47676171	0.098336525	1.475047334	-0.116225169	2032.275139	-1.613756968
18A	18.00115365	0.036002307	1.77130154	0.098594672	1.774234116	0.16528684	2032.534071	-1.626703548
21A	21.00863665	0.042017273	2.06782334	0.098456589	2.067854969	0.001529553	2031.956623	-1.597831128
24A	24.0043089	0.048008618	2.36276701	0.097732549	2.345418564	-0.739673758	2031.881163	-1.594058146
27A	27.0047791	0.027004779	2.65601061	0.099040588	2.67398548	0.6722127	2033.484279	-1.674213944
30A	30.0069517	0.030006952	2.95334755	0.098098497	2.94305314	-0.349786755	2032.063697	-1.603184833
35A	35.0001074	0.035000107	3.44316862	0.098910913	3.461308843	0.524085651	2033.017332	-1.650866579
40A	40.0027275	0.040002728	3.93798234	0.098137704	3.925192087	-0.325850373	2031.635698	-1.5817849
45A	45.0022698	0.04500227	4.42862594	0.098933904	4.451666497	0.517571492	2032.335556	-1.616777776
50A	50.0026618	0.050002662	4.92333424	0.09847357	4.923356914	0.000460535	2031.251967	-1.562598358
60A	60.0015116	0.030000756	5.90795668	0.097949216	5.876517291	-0.535000357	2031.210276	-1.560513812
70A	70.0005458	0.035000273	6.88735424	0.088778797	6.213980503	-10.83643144	2032.726744	-1.636337207
80A	80.1360756	0.040068038	7.78717438	0.070420161	5.642611648	-38.00656267	2058.155415	-2.907770764
90A	90.0737106	0.045036855	8.48698424	0.094222656	8.488400515	-0.006878354	2122.631739	-6.131586972

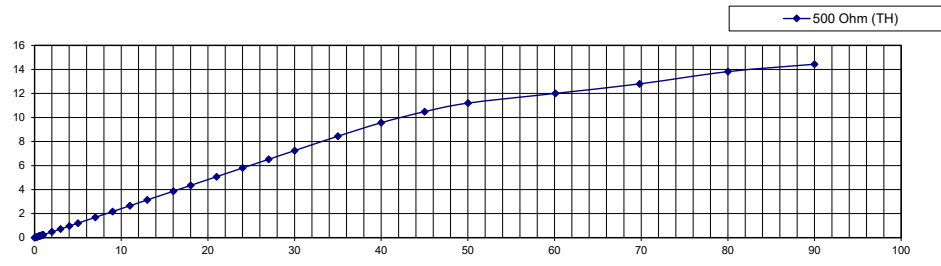
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8420-2000
Lot #:	31250
TURNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	500
MEASUREMENT CT TURNS RATIO:	2000
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	0.000629262	0.000629262	0.000102519	0.223854028	-0.000488399	120.9909097	3068.989034	-53.44945168
0.1A	0.100407334	0.100407334	0.022438243	0.237794914	0.023247091	3.479353772	2237.415277	-11.87076384
0.2A	0.200223751	0.200223751	0.046174079	0.239553977	0.047335134	2.452839334	2168.14017	-8.407008508
0.3A	0.300257302	0.300257302	0.070137514	0.240338666	0.071534177	1.952441804	2140.490052	-7.024502608
0.4A	0.400081385	0.400081385	0.094129101	0.240622827	0.095639452	1.579213191	2125.17373	-6.258686521
0.5A	0.500270924	0.500270924	0.118236991	0.24028095	0.119576311	1.120054374	2115.543197	-5.777159874
0.6A	0.600320233	0.600320233	0.142276934	0.240834808	0.143948746	1.161394048	2109.689238	-5.484461909
0.7A	0.700001264	0.700001264	0.166283596	0.240987958	0.168062613	1.058544396	2104.84161	-5.242080524
0.8A	0.800283341	0.800283341	0.190450369	0.241123978	0.19233824	0.981537153	2101.028591	-5.051429567
0.9A	0.900150597	0.900150597	0.214530759	0.240994056	0.216301681	0.81872788	2097.952296	-4.897614822
1A	1.00035611	1.00035611	0.238679692	0.241746423	0.241203249	1.046236775	2095.603739	-4.780186954
2A	2.00035858	2.00035858	0.480426712	0.241667777	0.482792949	0.490114141	2081.856119	-4.092805939
3A	3.00033166	3.00033166	0.722087983	0.242017642	0.725503931	0.470838015	2077.538839	-3.87694196
4A	4.00237278	0.40023728	0.964599612	0.242081052	0.96826935	0.37899973	2074.629064	-3.731453191
5A	5.00183468	0.050018347	1.2065504	0.241408904	1.206858168	0.025501621	2072.783151	-3.639157552
7A	7.00176472	0.035008824	1.68935132	0.241969805	1.69358638	0.250064588	2072.323453	-3.616172627
9A	9.00618982	0.045030949	2.17436167	0.24013598	2.16208096	-0.56800419	2070.996271	-3.549813541
11A	11.00093975	0.02200188	2.6533729	0.242712655	2.669438037	0.601817202	2073.010497	-3.650524866
13A	13.0005162	0.026001032	3.13869541	0.240164602	3.121634538	-0.546536489	2071.006342	-3.550317105
15A	16.00389215	0.032007784	3.86	0.243974314	3.903909345	1.124753197	2073.043025	-3.652151231
18A	18.00298235	0.036005965	4.34772666	0.241752152	4.351630463	0.089708983	2070.390316	-3.519515817
21A	21.00122565	0.042002451	5.07255843	0.241622787	5.073745404	0.023394431	2070.082182	-3.504109119
24A	24.00138085	0.048002762	5.79746429	0.239952495	5.758561954	-0.675556439	2069.989538	-3.499476881
27A	27.0037533	0.027003753	6.51789105	0.24231642	6.542823569	0.381066663	2071.510025	-3.575501235
30A	30.0035536	0.030003554	7.24479192	0.239154683	7.174881073	-0.974664817	2070.698091	-3.534904561
35A	35.0046663	0.035004666	8.44083144	0.224900271	7.871929661	-7.22696725	2073.531888	-3.676594388
40A	40.001012	0.040001012	9.56451094	0.18396596	7.358195328	-29.98446648	2091.116433	-4.555821649
45A	45.0039172	0.045003917	10.4848752	0.142458949	6.410581486	-63.55575892	2146.135092	-7.306754591
50A	50.0078338	0.050007834	11.1977279	0.080248512	4.012424978	-179.0763182	2232.945569	-11.64727846
60A	60.0993954	0.030049698	12.0075607	0.081445075	4.894170525	-145.3441424	2502.564713	-25.12823566
70A	69.8100918	0.034905046	12.7984491	0.099982664	6.979169703	-83.38068345	2727.28716	-36.36435801
80A	80.0086278	0.040004314	13.8181259	0.061544863	4.923490785	-180.6570887	2895.060748	-44.75303739
90A	90.0001408	0.04500007	14.4330522	0.160366996	14.43242294	-0.004360059	3117.848517	-55.89242586

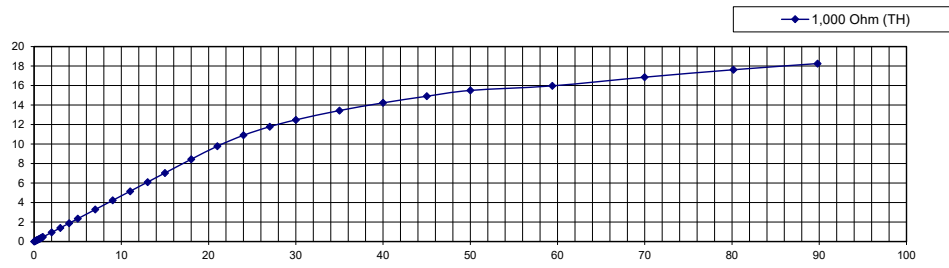
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8420-2000
Lot #:	31250
TURNS/RATIO:	2000
DATE:	May 27, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	75
Burden (Ohms):	1000
MEASUREMENT CT TURNS RATIO:	2000
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	0.000476954	0.000476954	0.00014766	0.424156048	-0.000274651	153.7627485	3230.083338	-61.50416689
0.1A	0.100210395	0.100210395	0.042450202	0.460208629	0.045640735	6.990537565	2360.65766	-18.03288301
0.2A	0.200223395	0.200223395	0.088477048	0.463469058	0.092320395	4.163052989	2262.998144	-13.14990722
0.3A	0.300333401	0.300333401	0.134874938	0.465421364	0.139304628	3.179858264	2226.754692	-11.33773459
0.4A	0.400125294	0.400125294	0.181320217	0.466601523	0.185821993	2.422628031	2206.732931	-10.33664657
0.5A	0.500396768	0.500396768	0.228006768	0.465654246	0.232534926	1.947302425	2194.65752	-9.732876
0.6A	0.600016317	0.600016317	0.274395034	0.466651908	0.279521806	1.834122289	2186.68796	-9.334397976
0.7A	0.700239308	0.700239308	0.321164284	0.467271771	0.326725108	1.701988543	2180.315007	-9.015750332
0.8A	0.800168546	0.800168546	0.367858396	0.468298251	0.374240577	1.705368445	2175.208055	-8.760402739
0.9A	0.900164179	0.900164179	0.414686176	0.468257968	0.421032096	1.507229488	2170.71808	-8.535590417
1A	1.00118057	1.00118057	0.461987906	0.469903873	0.469981674	1.700868011	2167.11424	-8.355712022
2A	2.00079564	2.00079564	0.931710899	0.468887227	0.937670566	0.635582155	2147.442562	-7.3721281
3A	3.00022163	3.00022163	1.40032898	0.470292494	1.410504759	0.721428182	2142.51199	-7.125599514
4A	4.00582371	0.040058237	1.87325609	0.470624755	1.884762848	0.610514916	2138.428233	-6.921411637
5A	5.00565605	0.050056561	2.34380194	0.46930041	2.348679481	0.207671626	2135.699252	-6.784962598
7A	7.00040074	0.035002004	3.27993644	0.470315357	3.291919021	0.363999877	2134.309877	-6.715493853
9A	9.00577606	0.04502888	4.22309525	0.466917868	4.204480804	-0.442728765	2132.506024	-6.625301193
11A	11.0001312	0.022000262	5.1542953	0.470821576	5.178622156	0.469755385	2134.167827	-6.708391349
13A	13.00449975	0.026009	6.09799526	0.468980734	6.098382889	0.006356251	2132.586071	-6.62930353
15A	15.00085165	0.030001703	7.03424584	0.467752299	7.016205886	-0.257118363	2132.545832	-6.627291619
18A	18.0001279	0.036000256	8.4371642	0.447689443	8.057990271	-4.70556449	2133.433399	-6.671669967
21A	21.0036736	0.042007347	9.7818199	0.37305648	7.835079583	-24.84646513	2147.215325	-7.360766272
24A	24.0019574	0.048003915	10.9003491	0.293174925	7.036295117	-54.91603065	2201.943918	-10.09719588
27A	27.0034235	0.027003424	11.7803037	0.233945504	6.316852577	-86.49008437	2292.251897	-14.61259483
30A	30.0029229	0.030002923	12.4820231	0.191382366	5.741553406	-117.3980144	2403.690705	-20.18453523
35A	35.0051936	0.035005194	13.4393695	0.157505092	5.513019281	-143.7751224	2604.675286	-30.23376431
40A	40.0008886	0.040008889	14.2262169	0.13531123	5.41209249	-162.8598259	2811.772721	-40.58863604
45A	45.0007382	0.045000738	14.9027527	0.119583791	5.380881922	-176.9574377	3019.625911	-50.98129556
50A	50.0027263	0.050002726	15.5009094	0.049953525	2.497335471	-520.697923	3225.793082	-61.28965408
60A	59.4022412	0.029701121	15.9704483	0.084061953	4.992991469	-219.857312	3719.50994	-85.97549701
70A	69.9621136	0.034981057	16.8581318	0.074975038	5.244935165	-221.4173535	4150.051407	-107.5025704
80A	80.1525626	0.040076281	17.6221611	0.065806156	5.274055119	-234.1292554	4548.395747	-127.4197873
90A	89.7941058	0.044897053	18.256634	0.203316619	18.25615705	-0.002612563	4918.43709	-145.9218545