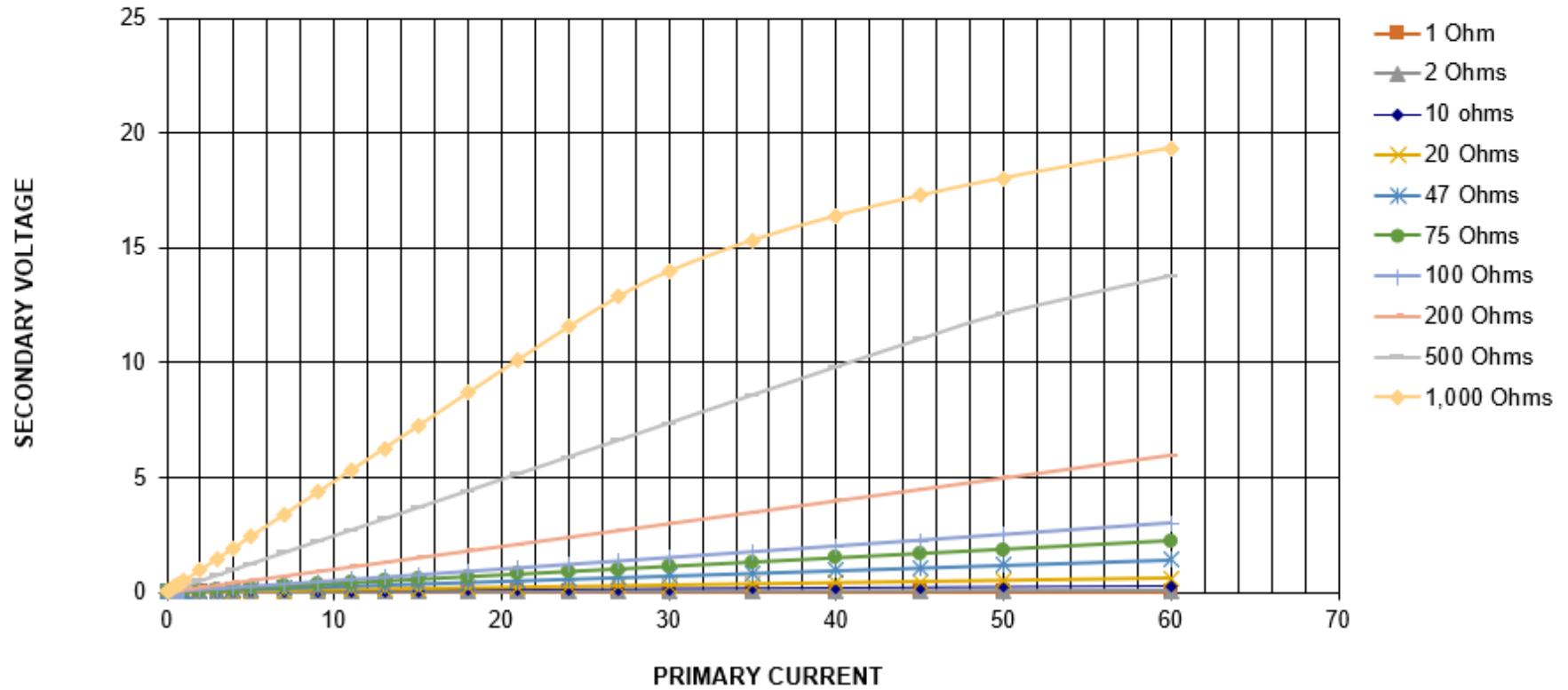


CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE



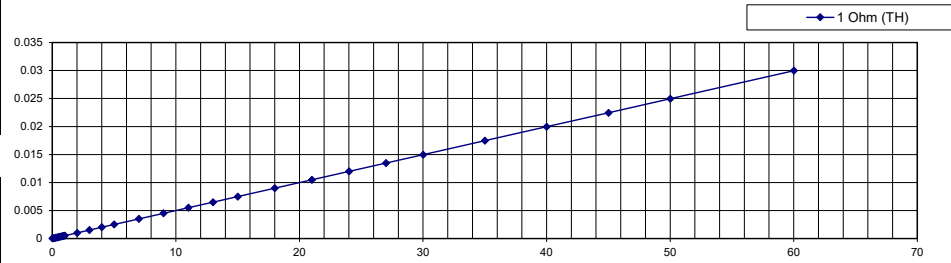
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
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	0.000622239	0.000622239	2.02075E-05	0.00041558	-0.000621983	103.2488828	30.79248468	98.46037577
0.1A	0.100575929	0.100575929	6.13443E-05	0.00044655	-0.000577327	110.6255658	1639.53195	18.02340248
0.2A	0.200416131	0.200416131	0.000105928	0.000490086	-0.000524018	120.2145476	1892.00478	5.399760988
0.3A	0.300155484	0.300155484	0.000154809	0.000496258	-0.000473285	132.7094409	1938.878444	3.056077813
0.4A	0.40009203	0.40009203	0.000204403	0.00052238	-0.000413239	149.4636092	1957.367137	2.13164316
0.5A	0.500273619	0.500273619	0.000256736	0.000497513	-0.000373347	168.766109	1948.591623	2.570418835
0.6A	0.600195585	0.600195585	0.000306449	0.000559881	-0.000286201	207.0744938	1958.552818	2.0723591
0.7A	0.700249124	0.700249124	0.000362467	0.000492381	-0.00027745	230.6422447	1931.899685	3.405015734
0.8A	0.800423554	0.800423554	0.000411791	0.000483431	-0.00023529	275.0144088	1943.763341	2.81183296
0.9A	0.900229506	0.900229506	0.00046004	0.000502867	-0.000169544	371.3395094	1956.850602	2.157469893
1A	1.00353924	1.00353924	0.000511991	0.000492842	-0.000127654	501.0786067	1960.072029	1.996398566
2A	2.00369105	2.00369105	0.001004907	0.00050843	0.000396498	-153.4457693	1993.905996	0.30470019
3A	3.00114771	3.00114771	0.001512045	0.00050168	0.000883375	-71.16680505	1984.827242	0.758637905
4A	4.00339743	0.040033974	0.002014853	0.000497112	0.001367898	-47.29557483	1986.942675	0.652866236
5A	5.00379117	0.050037912	0.002512161	0.000495764	0.001858459	-35.17439564	1991.827542	0.408622919
7A	7.00567104	0.035028355	0.00350462	0.000500062	0.00288103	-21.64472397	1998.98139	0.05093048
9A	9.00102066	0.045005103	0.004502419	0.000499958	0.003877889	-16.10490342	1999.152282	0.042385885
11A	11.0084675	0.022016935	0.005506057	0.000494698	0.004823632	-14.14753043	1999.337777	0.033111173
13A	13.00439415	0.026008788	0.006493439	0.000499517	0.005873676	-10.55152322	2002.697626	-0.134881308
15A	15.00283265	0.030005665	0.007491693	0.000499799	0.006876156	-8.951761055	2002.595863	-0.129793165
18A	18.0041707	0.036008341	0.008991757	0.000499097	0.008363591	-7.510720214	2002.29724	-0.114861976
21A	21.00815435	0.042016309	0.010491037	0.000498961	0.009860008	-6.399881053	2002.485965	-0.124298246
24A	24.0050132	0.048010026	0.011986352	0.00049805	0.011333457	-5.760774872	2002.695432	-0.134771609
27A	27.0066596	0.02700666	0.013481322	0.000497006	0.012800222	-5.321001514	2003.264873	-0.16324363
30A	30.0029653	0.030002965	0.014970503	0.000501107	0.014412465	-3.871914941	2004.138732	-0.206936598
35A	35.0009839	0.035000984	0.017475047	0.000499393	0.016857001	-3.666400869	2002.912181	-0.145609053
40A	40.0017664	0.040001766	0.019972402	0.000496528	0.019239759	-3.807962347	2002.852086	-0.142604282
45A	45.0030961	0.045003096	0.022455702	0.000501793	0.021960017	-2.257218387	2004.083235	-0.20416173
50A	50.0056399	0.05000564	0.024965946	0.000500096	0.02438536	-2.380879348	2002.95398	-0.147698993
60A	60.0051198	0.03000256	0.029966641	0.000499401	0.029344402	-2.120470828	2002.397252	-0.119862616

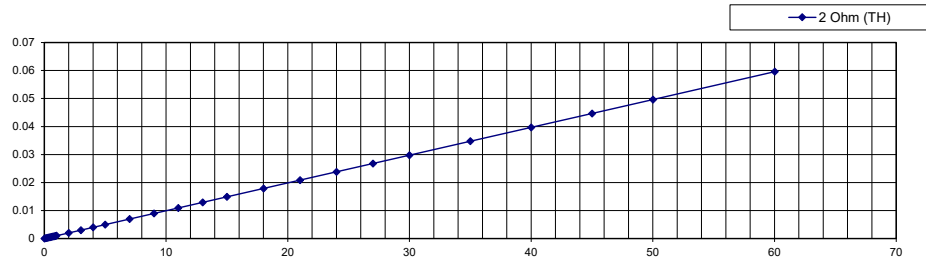
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
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	0.00059538	0.00059538	1.90226E-05	0.000925333	-0.000594829	103.1979862	62.59728044	96.87013598
0.1A	0.100224051	0.100224051	0.000111212	0.000996764	-0.000495481	122.4453392	1802.391658	9.880417082
0.2A	0.200593971	0.200593971	0.000211257	0.000950422	-0.000404731	152.1969491	1899.048076	5.047596181
0.3A	0.300498177	0.300498177	0.000306209	0.001018165	-0.000289424	205.7994177	1962.702662	1.86486688
0.4A	0.400179616	0.400179616	0.000407701	0.000954937	-0.000213234	291.1986727	1963.105059	1.844747066
0.5A	0.500493303	0.500493303	0.000503494	0.001061903	-6.39047E-05	887.8826053	1988.080963	0.595951827
0.6A	0.600130656	0.600130656	0.000609299	0.000965297	-1.60761E-05	3890.092752	1969.904841	1.504757927
0.7A	0.700425817	0.700425817	0.000706114	0.000964158	7.99409E-05	-783.2951674	1983.88955	0.805522513
0.8A	0.80011099	0.80011099	0.000802226	0.001050228	0.000244919	-227.5473886	1994.727216	0.263639183
0.9A	0.900421083	0.900421083	0.000907574	0.000979854	0.000286901	-216.3373737	1984.236225	0.788188753
1A	1.00080598	1.00080598	0.001005937	0.000987751	0.000393167	-155.8551714	1989.798506	0.510074682
2A	2.00035901	2.00035901	0.001993246	0.00099488	0.001403956	-41.97359968	2007.13688	-0.356844021
3A	3.0005704	3.0005704	0.002992433	0.000990949	0.002377524	-25.86339796	2005.095613	-0.25478065
4A	4.00755367	0.040075537	0.003990811	0.00098813	0.003364604	-18.61160233	2008.390595	-0.419529762
5A	5.00074198	0.05000742	0.00497221	0.000994503	0.004377872	-13.57595299	2011.476449	-0.573822469
7A	7.00784698	0.035039235	0.006968282	0.00099271	0.006361383	-9.540371436	2011.355685	-0.567784269
9A	9.00716216	0.045035811	0.008953023	0.000986327	0.00828863	-8.015716936	2012.094	-0.604699984
11A	11.00376215	0.022007524	0.010922324	0.000993202	0.01033358	-5.697390839	2014.912165	-0.745608233
13A	13.00514455	0.026010289	0.012910102	0.00099417	0.012333946	-4.67129968	2014.723796	-0.736189785
15A	15.00630715	0.030012614	0.014899598	0.000995583	0.014344638	-3.868759037	2014.323789	-0.716189467
18A	18.0067155	0.036013431	0.017886752	0.000993233	0.017289485	-3.454513489	2013.413648	-0.670682406
21A	21.0019328	0.042003866	0.020861701	0.00098969	0.020190031	-3.326741773	2013.443947	-0.672197344
24A	24.00319565	0.048006391	0.023832022	0.00099041	0.023177628	-2.823388265	2014.365013	-0.718250638
27A	27.0002137	0.027000214	0.026800299	0.000988903	0.026105205	-2.662664774	2014.918841	-0.745942051
30A	30.0020162	0.030002016	0.02976879	0.000995528	0.029272453	-1.695575701	2015.669196	-0.783459799
35A	35.0033117	0.035003312	0.034747717	0.000990827	0.034086851	-1.938772197	2014.711447	-0.735572352
40A	40.0014871	0.040001487	0.039700045	0.000991738	0.039075612	-1.598011795	2015.185988	-0.759299393
45A	45.0012064	0.045001206	0.044658456	0.00099247	0.044066974	-1.342234459	2015.349845	-0.767492272
50A	50.0047231	0.050004723	0.049624297	0.000995936	0.049206149	-0.849789215	2015.332243	-0.766612167
60A	60.0095956	0.030004798	0.059588515	0.000992983	0.058993135	-1.009236503	2014.132948	-0.706647415

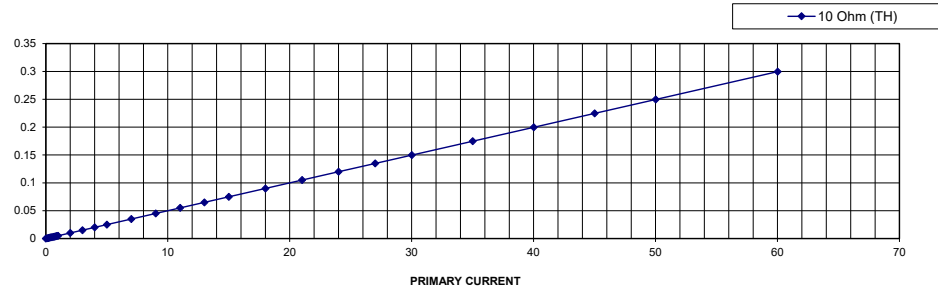
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	10
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	0.000619031	0.000619031	2.60923E-05	0.004771341	-0.000616077	104.2352253	237.2469319	88.13765341
0.1A	0.100065987	0.100065987	0.000500588	0.005017563	-0.000116943	528.0594668	1998.970402	0.051479897
0.2A	0.200090524	0.200090524	0.001002467	0.005031046	0.000387634	-158.6119334	1995.980995	0.20095024
0.3A	0.300161722	0.300161722	0.00150593	0.004967145	0.000871916	-72.71501795	1993.198528	0.340073603
0.4A	0.400032838	0.400032838	0.002002004	0.005033858	0.001394678	-43.54602332	1998.161802	0.091909896
0.5A	0.500257326	0.500257326	0.00250652	0.004950514	0.0018575	-34.94053133	1995.824139	0.208793062
0.6A	0.600330814	0.600330814	0.003001935	0.005037241	0.00240498	-24.82161304	1999.812681	0.009365958
0.7A	0.700393549	0.700393549	0.003505975	0.00498493	0.002881881	-21.65578223	1997.713826	0.114308703
0.8A	0.800476054	0.800476054	0.004006237	0.00496876	0.003358343	-19.29208324	1998.074592	0.096270388
0.9A	0.900064493	0.900064493	0.004501068	0.005017294	0.003896857	-15.50507814	1999.66865	0.016567512
1A	1.00011434	1.00011434	0.005003048	0.00498411	0.004379952	-14.22608765	1999.010207	0.049489634
2A	2.000723	2.000723	0.010004501	0.004986167	0.009356908	-6.921015362	1999.82282	0.008859012
3A	3.0000534	3.0000534	0.01498709	0.00501333	0.014420986	-3.925556804	2001.726379	-0.086318959
4A	4.00087599	0.04000876	0.020004785	0.005001848	0.019392744	-3.156029287	1999.959515	0.002024266
5A	5.00229007	0.050022901	0.025013706	0.004980925	0.024297001	-2.949769567	1999.819623	0.009018855
7A	7.00032152	0.035001608	0.034965751	0.005000503	0.034386099	-1.68571534	2002.05095	-0.10254749
9A	9.00424626	0.045021231	0.044986383	0.004993203	0.044340998	-1.455504011	2001.549273	-0.077463662
11A	11.00734665	0.022014693	0.05498827	0.004995197	0.054364834	-1.146763147	2001.762676	-0.088133797
13A	13.00443385	0.026008868	0.064964114	0.004988264	0.064250513	-1.110654512	2001.787302	-0.089365107
15A	15.00498335	0.030009967	0.074943382	0.004993185	0.07430363	-0.860997448	2002.175897	-0.108794863
18A	18.00192985	0.03600386	0.089907691	0.005006863	0.08951416	-0.439629502	2002.268063	-0.113403146
21A	21.00327895	0.042006558	0.104935034	0.005000863	0.104415495	-0.49756869	2001.550688	-0.077534401
24A	24.00584255	0.048011685	0.119950444	0.004947398	0.118147432	-1.526069245	2001.313355	-0.065667744
27A	27.0058517	0.027005852	0.134792684	0.004981315	0.133905635	-0.66244341	2003.510198	-0.175509896
30A	30.0073127	0.030007313	0.149743908	0.00499212	0.149181065	-0.377288223	2003.908747	-0.195437333
35A	35.0050166	0.035005017	0.174693044	0.004993131	0.174165616	-0.302831556	2003.801399	-0.190069961
40A	40.0055764	0.040005576	0.199661496	0.005004803	0.199600986	-0.03031542	2003.670072	-0.183503583
45A	45.0003647	0.045000365	0.224659426	0.00498162	0.223555676	-0.493725069	2003.048147	-0.15240736
50A	50.0056614	0.050005661	0.249593911	0.005005721	0.249695345	0.040622915	2003.480822	-0.174041105
60A	60.0063242	0.030003162	0.299654436	0.004993714	0.299035405	-0.207009234	2002.517466	-0.125873324

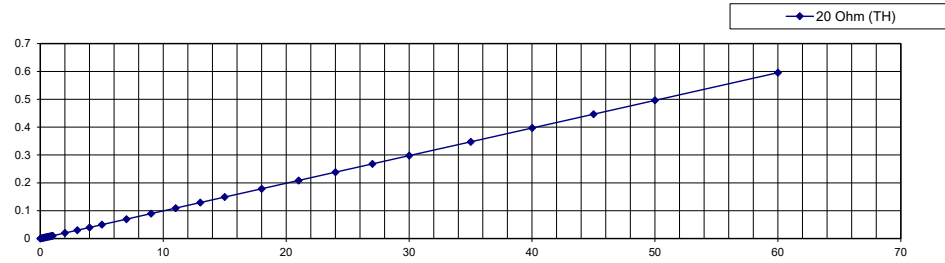
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
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	0.000675156	0.000675156	1.89838E-05	0.009787709	-0.000668548	102.839561	711.2961927	64.43519036
0.1A	0.100154998	0.100154998	0.000992664	0.009916678	0.000318049	-212.1103681	2017.904128	-0.895206399
0.2A	0.200092502	0.200092502	0.001983712	0.009894974	0.001304754	-52.03717723	2017.354771	-0.867738541
0.3A	0.300097927	0.300097927	0.002973263	0.009950365	0.002310928	-28.66098389	2018.643862	-0.932193103
0.4A	0.400299135	0.400299135	0.003970301	0.009949752	0.003307721	-20.03131396	2016.467279	-0.823363956
0.5A	0.500156847	0.500156847	0.004963861	0.00997046	0.004279921	-15.98019523	2015.192876	-0.759643782
0.6A	0.600195992	0.600195992	0.005954953	0.00995776	0.005301452	-12.32683992	2015.787422	-0.789371102
0.7A	0.700114007	0.700114007	0.006949913	0.009869736	0.006234785	-11.46997249	2014.741828	-0.7370914
0.8A	0.80035396	0.80035396	0.007939255	0.009969872	0.007304271	-8.693325607	2016.194172	-0.809708617
0.9A	0.900093537	0.900093537	0.008933646	0.009889239	0.008226084	-8.601435369	2015.064347	-0.753217365
1A	1.00117523	1.00117523	0.009933267	0.009937755	0.009274279	-7.105545232	2015.80259	-0.7901295
2A	2.00010958	2.00010958	0.019860432	0.009928471	0.019182873	-3.532102101	2014.165251	-0.708262546
3A	3.0000675	3.0000675	0.029787881	0.009939979	0.029144847	-2.206340393	2014.246471	-0.712323569
4A	4.00466282	0.040046628	0.039774141	0.009938873	0.039126678	-1.654787501	2013.701716	-0.685085817
5A	5.00629289	0.050062929	0.049729215	0.009937234	0.049073546	-1.33609493	2013.421245	-0.671062273
7A	7.0021027	0.035010514	0.069562043	0.009936798	0.068903326	-0.956002616	2013.196389	-0.659819464
9A	9.00276686	0.045013834	0.089442239	0.009868772	0.0881711	-1.441672621	2013.090672	-0.654533592
11A	11.0080336	0.022016067	0.10923176	0.00995184	0.108875031	-0.327650223	2015.537166	-0.776858306
13A	13.0019612	0.026003922	0.129075008	0.009935273	0.128502877	-0.445227897	2014.636513	-0.731825637
15A	15.00122545	0.030002451	0.148938244	0.009903348	0.147887196	-0.710709162	2014.422226	-0.721111295
18A	18.0072336	0.036014467	0.178707788	0.009937075	0.178264066	-0.248912716	2015.271276	-0.763563813
21A	21.004302	0.042008604	0.20848988	0.009916905	0.207622509	-0.417763389	2014.898949	-0.744947429
24A	24.0079683	0.048015937	0.238276953	0.009898005	0.236955845	-0.557533251	2015.131384	-0.756569184
27A	27.0057856	0.027005786	0.267949365	0.009921041	0.267250341	-0.261561485	2015.737981	-0.786899047
30A	30.0022265	0.030002227	0.297677177	0.009899941	0.296345104	-0.449500463	2015.755914	-0.7877957
35A	35.0086828	0.035008683	0.347240797	0.009921428	0.346660978	-0.1672582	2016.392262	-0.819613083
40A	40.0014687	0.040001469	0.396776364	0.00991816	0.396065806	-0.179404085	2016.323165	-0.816158243
45A	45.0046989	0.045004699	0.446399201	0.009926121	0.446046947	-0.078972411	2016.343165	-0.817158273
50A	50.0000532	0.050000053	0.495983694	0.009949024	0.496776594	0.159608972	2016.19746	-0.809872996
60A	60.002194	0.030001097	0.595495237	0.009924558	0.594820081	-0.113505905	2015.203154	-0.760157717

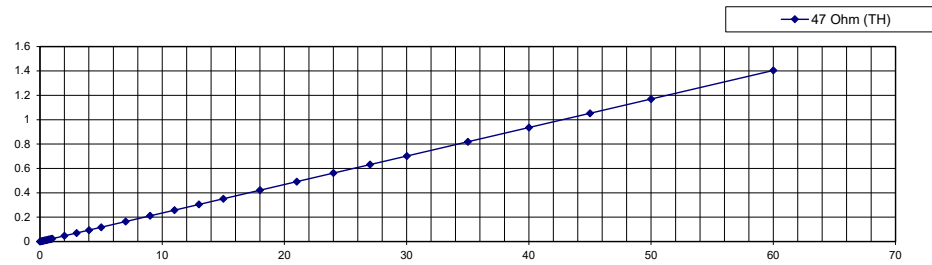
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	47
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	0.000708815	0.000708815	2.40139E-05	0.023235617	-0.000692345	103.468486	1387.292677	30.63536614
0.1A	0.100079499	0.100079499	0.002332953	0.0233246	0.0016255	-43.52222446	2016.215634	-0.810781697
0.2A	0.200151465	0.200151465	0.004667092	0.023386509	0.003972029	-17.49892148	2015.627637	-0.781381864
0.3A	0.300169235	0.300169235	0.007006158	0.023358032	0.006302548	-11.16390318	2013.650538	-0.682526882
0.4A	0.400145944	0.400145944	0.009341417	0.023414798	0.008660522	-7.862060079	2013.276879	-0.663843958
0.5A	0.500078146	0.500078146	0.01168131	0.023427138	0.011006585	-6.130188662	2012.075158	-0.603757913
0.6A	0.600250146	0.600250146	0.014028053	0.023380599	0.013325393	-5.273087909	2011.0957	-0.554784984
0.7A	0.700274149	0.700274149	0.016366674	0.023422836	0.015693592	-4.288898058	2010.969669	-0.54848347
0.8A	0.800211159	0.800211159	0.018707482	0.023473628	0.018075045	-3.498954394	2010.421503	-0.521075126
0.9A	0.900402585	0.900402585	0.021059339	0.023327278	0.020295127	-3.765492688	2009.508584	-0.475429214
1A	1.00093932	1.00093932	0.023404587	0.023437336	0.022750536	-2.874879677	2010.039666	-0.50198331
2A	2.00066244	2.00066244	0.046835434	0.023416597	0.046139892	-1.507463018	2007.692203	-0.384610169
3A	3.000603	3.000603	0.070237931	0.023434431	0.069595892	-0.922523996	2007.502683	-0.37513413
4A	4.00903499	0.04009035	0.093882679	0.023533828	0.093639124	-0.26009893	2007.022462	-0.351123093
5A	5.001054	0.05001054	0.117228683	0.023307776	0.115854633	-1.186012378	2005.051426	-0.252571293
7A	7.00842916	0.035042146	0.164016134	0.023451348	0.163648296	-0.224773478	2008.315661	-0.415783035
9A	9.00878714	0.045043936	0.210927225	0.023252232	0.208765595	-1.035434218	2007.38902	-0.369451023
11A	11.0051566	0.022010313	0.257347271	0.023462144	0.257495759	0.057666328	2009.900312	-0.495015585
13A	13.0006802	0.02600136	0.304166534	0.023395817	0.303452719	-0.235231153	2008.873104	-0.443655218
15A	15.00295365	0.030005907	0.351011357	0.023432716	0.350851142	-0.045664538	2008.877512	-0.443875602
18A	18.0008722	0.036001744	0.421260732	0.023394222	0.420407594	-0.202931262	2008.354753	-0.417737654
21A	21.0021755	0.042004351	0.491473889	0.023400415	0.490750799	-0.147343586	2008.453085	-0.422654244
24A	24.00591835	0.048011837	0.561762717	0.023225524	0.556841223	-0.883823507	2008.460384	-0.423019213
27A	27.0015325	0.027001533	0.631337426	0.023373461	0.630410441	-0.147044617	2010.132736	-0.506636803
30A	30.008108	0.030008108	0.7016115	0.023442464	0.702755186	0.162743101	2010.202336	-0.510116781
35A	35.0020773	0.035002077	0.818682447	0.023395366	0.818177582	-0.061705992	2009.445346	-0.472267308
40A	40.0024221	0.040002422	0.935667342	0.023377895	0.934463595	-0.128816849	2009.382773	-0.469138673
45A	45.0042625	0.045004263	1.05259984	0.023423781	1.053461162	0.081761124	2009.500911	-0.475045555
50A	50.0014511	0.050001451	1.16965289	0.023447225	1.171686455	0.173558841	2009.201381	-0.460069042
60A	60.0028368	0.030001418	1.40415763	0.023401521	1.403448815	-0.050505207	2008.416484	-0.420824178

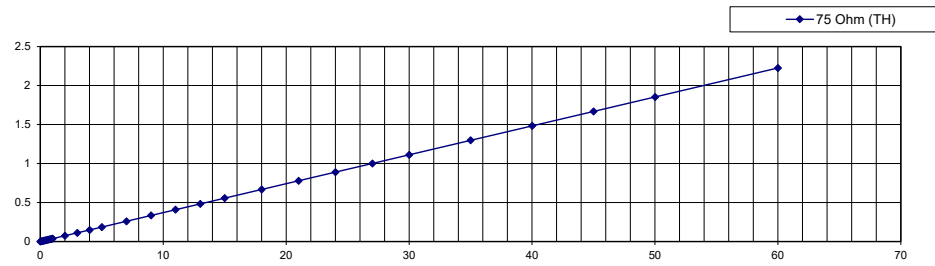
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	75
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	0.000646565	0.000646565	2.10488E-05	0.036847033	-0.000622741	103.3800226	2303.808602	-15.19043011
0.1A	0.100027429	0.100027429	0.003682939	0.036994497	0.0030539	-20.59789629	2036.975824	-1.848791205
0.2A	0.200259116	0.200259116	0.00739096	0.037053904	0.006773817	-9.110701234	2032.135827	-1.606791367
0.3A	0.300108915	0.300108915	0.011090784	0.037114844	0.010491931	-5.707753144	2029.447856	-1.472392814
0.4A	0.400340978	0.400340978	0.014810882	0.037126529	0.014216706	-4.179417911	2027.264396	-1.363219812
0.5A	0.500180715	0.500180715	0.018517585	0.037098468	0.017909374	-3.39604956	2025.834051	-1.291702543
0.6A	0.600282784	0.600282784	0.022231218	0.037078795	0.021611198	-2.868978168	2025.134592	-1.256729608
0.7A	0.700076383	0.700076383	0.025931445	0.037105627	0.025330208	-2.373593421	2024.78997	-1.239498488
0.8A	0.800403207	0.800403207	0.029654134	0.03706991	0.02902431	-2.16998865	2024.346424	-1.217321201
0.9A	0.900050215	0.900050215	0.03334804	0.037077966	0.032725467	-1.902410869	2024.21991	-1.210995504
1A	1.00012843	1.00012843	0.037058737	0.037136391	0.036494595	-1.545820677	2024.074195	-1.203709751
2A	2.0004923	2.0004923	0.074192186	0.037133739	0.073622742	-0.773462057	2021.826019	-1.091300941
3A	3.0022733	3.0022733	0.11132539	0.03693656	0.110171513	-1.053835364	2021.125645	-1.056282274
4A	4.00939924	0.040093992	0.148607878	0.037289631	0.148862454	0.171014557	2023.479152	-1.173957615
5A	5.00348582	0.050034858	0.185677	0.037070331	0.184834311	-0.455916059	2021.044268	-1.052213387
7A	7.00099488	0.035004974	0.259725322	0.037068305	0.258868452	-0.331006	2021.653538	-1.082676875
9A	9.00207872	0.045010394	0.333902109	0.037043352	0.332820602	-0.324951873	2022.017489	-1.100874448
11A	11.0002653	0.022000531	0.407921637	0.037052334	0.406938934	-0.24148648	2022.496045	-1.12480225
13A	13.0067213	0.026013443	0.482265514	0.037135905	0.482369806	0.021620833	2022.753171	-1.137658528
15A	15.0018488	0.030003698	0.55635638	0.03707308	0.555518181	-0.150885941	2022.334425	-1.116721264
18A	18.0001009	0.036000202	0.667510821	0.037097672	0.667115283	-0.05929076	2022.450461	-1.122523038
21A	21.004778	0.042009556	0.778977348	0.037077815	0.778164707	-0.104430419	2022.341669	-1.117083446
24A	24.001618	0.048003236	0.890093627	0.036854217	0.883914266	-0.699090525	2022.395505	-1.119775235
27A	27.0066384	0.027006638	1.0008413	0.037106411	1.00147286	0.063063108	2023.795261	-1.189763052
30A	30.0086819	0.030008682	1.11223636	0.037103951	1.112794101	0.050120789	2023.536744	-1.176837201
35A	35.0068116	0.035006812	1.29768672	0.037031123	1.295694975	-0.153720201	2023.223964	-1.161198213
40A	40.0040584	0.040004058	1.48274038	0.037088275	1.483034949	0.019862577	2023.485986	-1.174299307
45A	45.0021957	0.045002196	1.66811267	0.037105244	1.669170885	0.063397626	2023.34335	-1.167167488
50A	50.0080752	0.050008075	1.85385705	0.037215313	1.860419627	0.352747136	2023.136379	-1.156818968
60A	60.002206	0.030001103	2.22579176	0.037095165	2.225145195	-0.029057193	2021.828808	-1.091340414

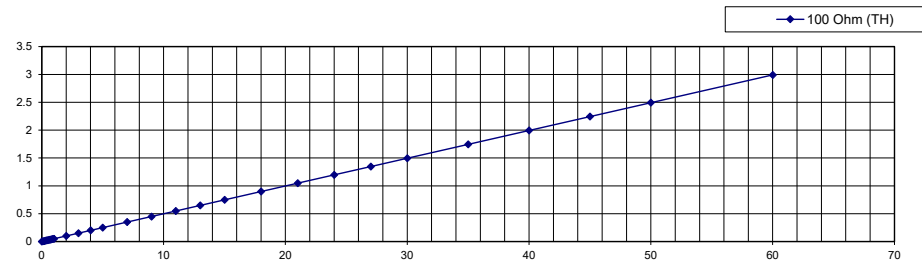
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	100
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	0.000591318	0.000591318	3.01475E-05	0.049384192	-0.000562116	105.3632135	1961.416775	1.929161244
0.1A	0.100046708	0.100046708	0.004941672	0.049803441	0.004391352	-12.53189181	2024.55196	-1.22759798
0.2A	0.20002102	0.20002102	0.009920736	0.049890671	0.009387865	-5.676173724	2016.191286	-0.809564309
0.3A	0.300414348	0.300414348	0.014929427	0.049859975	0.014387334	-3.767850468	2012.229619	-0.611480944
0.4A	0.400012138	0.400012138	0.01989537	0.049867417	0.019356254	-2.785229913	2010.579024	-0.528951206
0.5A	0.500130315	0.500130315	0.024888005	0.049900925	0.024365647	-2.143830001	2009.523523	-0.476176174
0.6A	0.600597333	0.600597333	0.029901402	0.049899094	0.029377944	-1.781805126	2008.592544	-0.429627178
0.7A	0.700128323	0.700128323	0.034867908	0.049848293	0.034308884	-1.629387278	2007.944718	-0.397235902
0.8A	0.80005894	0.80005894	0.039849279	0.049910298	0.039339862	-1.294913742	2007.712461	-0.385623037
0.9A	0.900214245	0.900214245	0.04484806	0.049901788	0.044330983	-1.166402142	2007.253475	-0.362673769
1A	1.00023557	1.00023557	0.049839303	0.049949081	0.04936953	-0.951545437	2006.921261	-0.346063025
2A	2.00028519	2.00028519	0.099790863	0.049872066	0.099167036	-0.629066695	2004.477296	-0.223864784
3A	3.00078985	3.00078985	0.149688097	0.049954064	0.149310329	-0.253008862	2004.695036	-0.234751799
4A	4.0048836	0.040048836	0.19984666	0.049888965	0.199212186	-0.318491615	2003.97825	-0.198912506
5A	5.00425992	0.050042599	0.24970551	0.049872856	0.248985418	-0.289210317	2004.064676	-0.203233801
7A	7.00287516	0.035014376	0.349382161	0.049829738	0.348360114	-0.293387971	2004.359679	-0.21798394
9A	9.00132142	0.045006607	0.448964214	0.049886522	0.44665304	-0.51744285	2004.90844	-0.24542201
11A	11.00227595	0.022004552	0.548384686	0.050017249	0.549712262	0.241503738	2006.306199	-0.315309954
13A	13.0023193	0.026004639	0.648421353	0.049860373	0.647709166	-0.109954799	2005.226885	-0.261344262
15A	15.00260965	0.030005219	0.748156575	0.049901803	0.748065947	-0.01211501	2005.276723	-0.26383615
18A	18.0039564	0.036007913	0.897929188	0.049921287	0.898189353	0.028965469	2005.053031	-0.252651549
21A	21.00568295	0.042011366	1.04777924	0.049846639	1.04647138	-0.124978076	2004.781365	-0.239068251
24A	24.00811185	0.048016224	1.19744023	0.049526864	1.188455171	-0.756028434	2004.952836	-0.247641797
27A	27.0075715	0.027007572	1.34599406	0.049834767	1.345324702	-0.049754383	2006.51491	-0.325745494
30A	30.0030905	0.030003091	1.49527505	0.049820629	1.494181532	-0.07318508	2006.526525	-0.32632625
35A	35.0029322	0.035002932	1.74437031	0.049871668	1.74506329	0.039710866	2006.622791	-0.33113955
40A	40.0046791	0.040004679	1.99381577	0.049859305	1.994014173	0.00994995	2006.438092	-0.321904616
45A	45.0020093	0.045002009	2.24297918	0.049855161	2.242991089	0.000530929	2006.349845	-0.317492247
50A	50.0015858	0.050001586	2.49223387	0.049915857	2.495280673	0.122102609	2006.295894	-0.314794695
60A	60.0013112	0.030000656	2.99137873	0.049855223	2.990787412	-0.019771323	2005.807911	-0.290395526

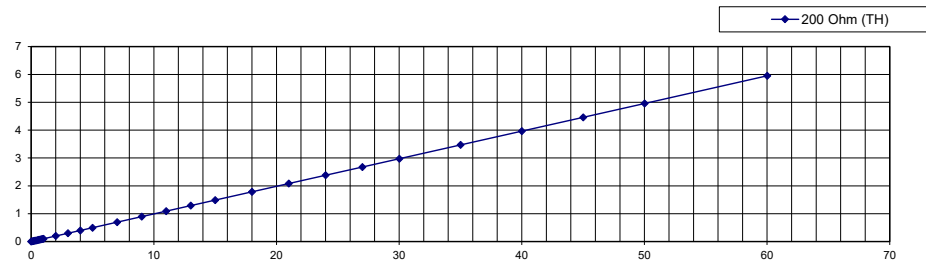
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	200
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	0.000515991	0.000515991	3.76644E-05	0.098274668	-0.000465282	108.0949523	2739.942391	-36.99711956
0.1A	0.10012549	0.10012549	0.009826755	0.099004795	0.009396913	-4.574292325	2037.813953	-1.890697633
0.2A	0.200167712	0.200167712	0.019731415	0.099064573	0.019313538	-2.163646493	2028.9241	-1.446204984
0.3A	0.300094921	0.300094921	0.029630661	0.099183695	0.029248532	-1.306488863	2025.570223	-1.278511143
0.4A	0.40018998	0.40018998	0.039558459	0.099246475	0.039201454	-0.910692741	2023.283991	-1.164199558
0.5A	0.5002127	0.5002127	0.049485361	0.099202804	0.049106511	-0.771485797	2021.659294	-1.082964718
0.6A	0.600387042	0.600387042	0.059422937	0.099214423	0.059051063	-0.629749303	2020.724913	-1.036245657
0.7A	0.700241568	0.700241568	0.069329946	0.099258511	0.068988944	-0.494284231	2020.026296	-1.001314788
0.8A	0.800401934	0.800401934	0.079271715	0.099349723	0.079003719	-0.339218972	2019.388474	-0.969423714
0.9A	0.900239635	0.900239635	0.089190563	0.099582897	0.089132448	-0.065164319	2018.688098	-0.934404915
1A	1.00162304	1.00162304	0.099286616	0.099211793	0.098856826	-0.434759275	2017.639604	-0.881980208
2A	2.0008739	2.0008739	0.198346054	0.099200732	0.197894142	-0.228360477	2016.765496	-0.838274806
3A	3.0005859	3.0005859	0.297543929	0.099450849	0.297842384	0.100205526	2016.548346	-0.827417319
4A	4.00081116	0.040008112	0.397069622	0.09930623	0.396789482	-0.070601546	2015.168594	-0.758429714
5A	5.00087039	0.050008704	0.496381734	0.099146149	0.495301051	-0.218187031	2014.929256	-0.746462802
7A	7.00015792	0.03500079	0.694603394	0.099178786	0.693751171	-0.122842723	2015.584139	-0.779206961
9A	9.00671458	0.045033573	0.893611247	0.098741188	0.888817709	-0.539316208	2015.801527	-0.790076336
11A	11.00417295	0.022008346	1.09084266	0.099324123	1.092463834	0.148396124	2017.554566	-0.877728324
13A	13.00789485	0.02601579	1.28986058	0.099241789	1.290410759	0.042635927	2016.94587	-0.847293511
15A	15.0010129	0.030002026	1.48766118	0.09912724	1.486493017	-0.078585142	2016.724386	-0.836219306
18A	18.00500655	0.036010013	1.78543878	0.099130028	1.784320804	-0.062655557	2016.871903	-0.843595153
21A	21.00282555	0.042005651	2.08261266	0.099162191	2.082170217	-0.021249147	2016.968969	-0.848448458
24A	24.0040899	0.04800818	2.38022461	0.09839129	2.361277388	-0.802414061	2016.960063	-0.848003164
27A	27.0010198	0.02700102	2.67509641	0.099055972	2.674096275	-0.037400863	2018.695079	-0.934753974
30A	30.0095646	0.030009565	2.97311074	0.099203194	2.976528674	0.114829543	2018.731707	-0.936585362
35A	35.0021614	0.035002161	3.46839229	0.099093178	3.467959405	-0.012482411	2018.350779	-0.917538944
40A	40.0040339	0.040004034	3.96404373	0.099048099	3.961807537	-0.056443752	2018.344732	-0.917236602
45A	45.003968	0.045003968	4.4592777	0.099205797	4.464138533	0.108886239	2018.442045	-0.92210225
50A	50.0044164	0.050004416	4.95535117	0.099518447	4.975845876	0.411883852	2018.198698	-0.909934906
60A	60.0092356	0.030004618	5.95101524	0.099168323	5.950499249	-0.008671392	2016.773044	-0.838652196

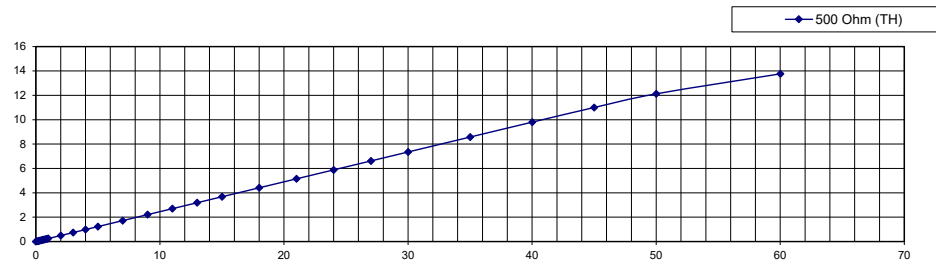
CURRENT TRANSFORMER CHARACTERISTICS TEST

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	500
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	0.000564448	0.000564448	0.000126035	0.23994177	-0.000429013	129.3777825	2239.257959	-11.96289796
0.1A	0.100234418	0.100234418	0.024041024	0.245145815	0.02400076	-0.139220392	2084.653708	-4.232685417
0.2A	0.200139987	0.200139987	0.048532456	0.245286542	0.048527197	-0.010835692	2061.91902	-3.095951005
0.3A	0.300086284	0.300086284	0.073047937	0.245228694	0.073025319	-0.030972559	2054.036672	-2.701833581
0.4A	0.400013897	0.400013897	0.097553055	0.245107273	0.097481868	-0.073026546	2050.237667	-2.511883346
0.5A	0.50012046	0.50012046	0.122089902	0.245014831	0.121972482	-0.096267465	2048.16472	-2.408236023
0.6A	0.600051982	0.600051982	0.146574607	0.245070828	0.146490788	-0.0507217698	2046.916564	-2.345828224
0.7A	0.700149632	0.700149632	0.171105621	0.245050658	0.17100768	-0.057272633	2045.957426	-2.297871325
0.8A	0.800218145	0.800218145	0.195627476	0.245037022	0.195518624	-0.055673665	2045.260107	-2.263005351
0.9A	0.900528542	0.900528542	0.220207237	0.244981306	0.22004821	-0.072268989	2044.72967	-2.23648349
1A	1.00079925	1.00079925	0.244771686	0.24547421	0.245105957	0.136378338	2044.352569	-2.217628431
2A	2.0010716	2.0010716	0.490312751	0.245393997	0.49048651	0.035425871	2040.607343	-2.030367144
3A	3.0009652	3.0009652	0.735680638	0.245462249	0.736059219	0.051433435	2039.584193	-1.979209625
4A	4.00309572	0.040030957	0.981665849	0.245898278	0.983789895	0.215904414	2038.929909	-1.946495441
5A	5.00228853	0.050022885	1.22736564	0.244899892	1.224495472	-0.234396003	2037.815125	-1.890756246
7A	7.0016407	0.035008204	1.71700677	0.245279348	1.716793421	-0.012427192	2038.90888	-1.945443989
9A	9.0039109	0.045019555	2.2081223	0.244003964	2.196425499	-0.532538023	2038.81617	-1.940808487
11A	11.00610895	0.022012218	2.69666656	0.24504914	2.696473087	-0.007175022	2040.687772	-2.034388616
13A	13.00122605	0.026002452	3.18556829	0.244980127	3.184477558	-0.034251525	2040.644693	-2.032234647
15A	15.0057184	0.030011437	3.67662908	0.244837343	3.67339578	-0.088019362	2040.689729	-2.034486438
18A	18.00470005	0.0360094	4.41089178	0.24512636	4.412862143	0.04465046	2040.936499	-2.046824928
21A	21.0010392	0.042002078	5.14537349	0.24467355	5.137834373	-0.146737244	2040.769173	-2.038458631
24A	24.00561325	0.048011227	5.88051329	0.244878497	5.877894048	-0.044560889	2041.115466	-2.055773306
27A	27.0031831	0.027003183	6.61455369	0.245154104	6.619376704	0.072862058	2041.194642	-2.059732091
30A	30.0003614	0.030000361	7.34932425	0.245105277	7.352682454	0.045673183	2041.028561	-2.051428062
35A	35.0029656	0.035002966	8.57548894	0.244393184	8.553921764	-0.25213029	2040.872879	-2.043643939
40A	40.0032447	0.040003245	9.79752307	0.240339826	9.613808414	-1.910945679	2041.497857	-2.074892843
45A	45.0025536	0.045002554	10.9990561	0.224639509	10.10878712	-8.806882303	2045.746162	-2.28730809
50A	50.0024973	0.050002497	12.122241	0.163859505	8.192820027	-47.9617636	2062.42795	-3.121397479
60A	60.0026886	0.030001344	13.7608674	0.22937513	13.76030295	-0.004102002	2180.19282	-9.009640991

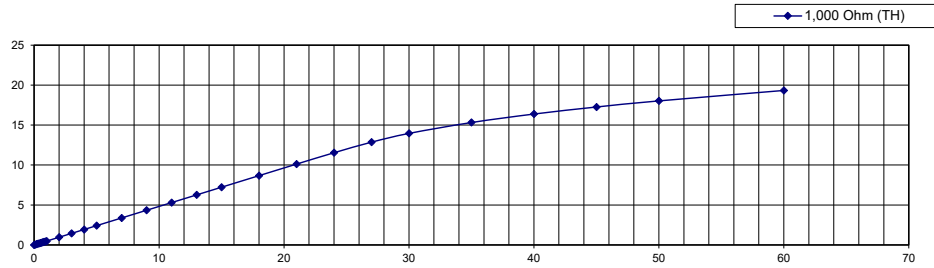
CURRENT TRANSFORMER CHARACTERISTICS TEST

CT PRIMARY CURRENT VERSUS SECONDARY VOLTAGE

PRODUCT:	CR8448-2000
Lot #:	30457
TURNS/RATIO:	2000
DATE:	May 28, 2020
TESTER:	AG

TEST SETUP

FULL SCALE PRIMARY CURRENT(Amps):	50
Burden (Ohms):	1000
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	0.000597146	0.000597146	0.000182285	0.473092271	-0.000314641	157.9344515	3275.884122	-63.79420608
0.1A	0.100103928	0.100103928	0.047258175	0.480110148	0.047463766	0.433153916	2118.235162	-5.911758124
0.2A	0.200750662	0.200750662	0.095579693	0.480212685	0.095805869	0.236076747	2100.348462	-5.017423084
0.3A	0.300483287	0.300483287	0.143472565	0.481570647	0.144106785	0.440104403	2094.360598	-4.71802989
0.4A	0.400088519	0.400088519	0.191439521	0.480924813	0.191815351	0.195933068	2089.895111	-4.494755553
0.5A	0.500343055	0.500343055	0.239654415	0.481337397	0.240236678	0.242370603	2087.768986	-4.388449301
0.6A	0.600370982	0.600370982	0.287801597	0.481314666	0.288370213	0.197182747	2086.05855	-4.302927478
0.7A	0.700073269	0.700073269	0.33578977	0.482054828	0.336876554	0.322606019	2084.855858	-4.242792894
0.8A	0.800135032	0.800135032	0.384025026	0.481922055	0.385005574	0.254684026	2083.54919	-4.177459518
0.9A	0.900152708	0.900152708	0.43222575	0.482045872	0.433317752	0.252009463	2082.598522	-4.129926086
1A	1.00072841	1.00072841	0.480707852	0.483284515	0.483039399	0.482682606	2081.780869	-4.089043463
2A	2.00147176	2.00147176	0.964351617	0.482927998	0.965969605	0.167498831	2075.458499	-3.772924975
3A	3.00029938	3.00029938	1.44671344	0.483149955	1.448997365	0.157621065	2073.872612	-3.693630578
4A	4.00185665	0.040018567	1.93061579	0.482774003	1.931395209	0.040355222	2072.83949	-3.641974512
5A	5.00320769	0.050032077	2.41404204	0.481247295	2.407183022	-0.284939593	2072.543728	-3.627186418
7A	7.00221292	0.035011065	3.3760579	0.482165243	3.375626547	-0.012778459	2074.07963	-3.703981499
9A	9.00105594	0.04500528	4.33983053	0.479262207	4.313268789	-0.615814647	2074.057012	-3.702850581
11A	11.00542665	0.022010853	5.30044966	0.481066465	5.293744554	-0.126660928	2076.319436	-3.815971813
13A	13.0066016	0.026013203	6.26314782	0.482283432	6.272271315	0.145457594	2076.68763	-3.834381479
15A	15.0043198	0.03000864	7.22661421	0.48253203	7.239467752	0.17754817	2076.258586	-3.812929292
18A	18.00576795	0.036011536	8.67490908	0.481407711	8.667518386	-0.085268856	2075.614601	-3.780730057
21A	21.00348005	0.04200696	10.1180308	0.473486792	9.944273234	-1.747312871	2075.846621	-3.792331063
24A	24.00313775	0.048006276	11.5383291	0.441450694	10.59560468	-8.897315925	2080.295816	-4.014790798
27A	27.000289	0.027000289	12.8614236	0.365275224	9.861939465	-30.414749	2099.323515	-4.966175751
30A	30.004461	0.030004461	13.9587732	0.272491384	8.17535996	-70.74200119	2149.505588	-7.475279418
35A	35.0007698	0.03500077	15.3202243	0.212079468	7.422347489	-106.406724	2284.612099	-14.23060497
40A	40.0054174	0.040005417	16.3816073	0.176299607	7.052342205	-132.2860523	2442.093542	-22.10467712
45A	45.0017235	0.045001724	17.2624541	0.152973565	6.883476939	-150.7810261	2606.913434	-30.34567171
50A	50.0068399	0.05000684	18.0281046	0.130716209	6.536107376	-175.8232624	2773.826811	-38.69134057
60A	60.0049856	0.030002493	19.3350243	0.32222363	19.33442715	-0.003088509	3103.434714	-55.17173568