Electrical Equipment Company

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Major Paper

xxx Mill

2012 Fall Outage

Motor Circuit Analysis Report

The following analysis is provided on 285 motors that were tested during the 2012 fall outage at the xxx Mill. Test results revealed issues and/or concerns with 31 motors.

Report Contents:

Test Results Summary

Pages 3 – 10 Provides list of all tests conducted and pass or fail result of individual tests. Tests results represented as PASS indicate the test result is above minimum standards for electric motor operation but results are marginal and should be taken into consideration with regards to reliability and life cycle.

Exceptions Analysis and Recommendations

Pages 11 – 63 Provides detailed test data and recommendations

Please note some level of moisture contamination was detected in the majority of 2300V, WP2 motors tested, some of which revealed insulation resistance values that could lead to motor failure (flash over) upon startup. I strongly recommend that during extended outage periods, motor heater circuits are energized and motors are evaluated for safe insulation resistance values prior to startup.

The cooperation and support provided by x, y, z and a ensured the safe and successful outcome of this project once again.

Respectfully submitted

Mike Rathbun
IMS Reliability Manger

Test Results Summary

Motor ID	Time	Temp	Resist	Megohm	DA/PI	DC	Surge
01005	10/4/2012 10:01:00 AM	Tested	PASS	PASS	PASS	PASS	PASS
01014	10/4/2012 11:17:57 AM	Tested	PASS	PASS	PASS	PASS	PASS
01015	10/4/2012 11:33:56 AM	--	--	--	--	--	PASS
01015	10/4/2012 11:32:01 AM	Tested	PASS	PASS	PASS	PASS	PASS
01017	10/4/2012 11:03:50 AM	Tested	PASS	PASS	PASS	PASS	PASS
01018	10/4/2012 10:41:52 AM	--	--	--	--	--	PASS
01018	10/4/2012 10:39:27 AM	Tested	PASS	PASS	PASS	PASS	PASS
01019	10/4/2012 12:35:42 PM	Tested	DELTA R	PASS	PASS	PASS	PASS
01020	10/4/2012 12:20:36 PM	Tested	PASS	PASS	PASS	PASS	PASS
01033	10/3/2012 11:04:14 AM	Tested	PASS	PASS	MIN PI	PASS	PASS
01034	10/3/2012 11:35:35 AM	Tested	PASS	PASS	PASS	PASS	PASS
01035	10/3/2012 2:14:12 PM	Tested	PASS	PASS	PASS	PASS	PASS
01036	10/3/2012 9:28:06 AM	Tested	--	--	--	PASS	PASS
01036	10/3/2012 9:19:16 AM	Tested	PASS	PASS	MIN PI	--	--
01040	10/3/2012 2:57:44 PM	--	--	--	--	--	PASS
01040	10/3/2012 2:55:47 PM	--	--	--	--	PASS	--
01040	10/3/2012 2:49:33 PM	Tested	PASS	PASS	MIN PI	--	--
01040	10/3/2012 12:13:36 PM	Tested	PASS	PASS	PASS	PASS	PASS
01040	10/3/2012 8:42:08 AM	Tested	DELTA R	MIN MEGOHM	--	--	--
01044	10/3/2012 10:31:20 AM	Tested	PASS	PASS	PASS	PASS	PASS
01045	10/3/2012 6:57:10 AM	Tested	PASS	PASS	PASS	PASS	PASS
01065	10/1/2012 9:19:59 AM	Tested	PASS	PASS	PASS	PASS	PASS
01066	10/1/2012 3:02:07 PM	Tested	PASS	PASS	PASS	PASS	PASS
01068	10/1/2012 3:28:50 PM	--	--	--	--	--	PASS
01068	10/1/2012 3:23:01 PM	Tested	PASS	PASS	PASS	PASS	ppEAR LIMIT
01069	10/1/2012 5:00:00 PM	Tested	PASS	PASS	PASS	PASS	PASS
01070	10/1/2012 5:32:02 PM	Tested	PASS	PASS	PASS	PASS	PASS
01071	10/1/2012 5:59:16 PM	Tested	PASS	PASS	PASS	PASS	PASS
01072	10/4/2012	Tested	PASS	PASS	PASS	PASS	PASS

	3:10:09 PM						
01073	10/4/2012 2:21:25 PM	Tested	PASS	PASS	PASS	PASS	PASS
01074	10/4/2012 1:41:36 PM	Tested	PASS	PASS	PASS	PASS	PASS
01075	10/4/2012 2:48:32 PM	Tested	PASS	PASS	PASS	PASS	PASS
01076	10/4/2012 2:38:27 PM	Tested	PASS	PASS	PASS	PASS	PASS
01077	10/4/2012 2:12:09 PM	Tested	PASS	PASS	PASS	PASS	PASS
01078	10/4/2012 1:51:29 PM	Tested	PASS	PASS	PASS	PASS	PASS
01079	10/1/2012 2:21:05 PM	--	--	--	--	PASS	PASS
01079	10/1/2012 2:15:53 PM	Tested	PASS	PASS	PASS	OVER CURRENT	--
01080	10/1/2012 3:52:03 PM	Tested	PASS	PASS	PASS	PASS	PASS
01081	10/1/2012 1:19:14 PM	Tested	PASS	PASS	PASS	PASS	PASS
01082	10/1/2012 4:14:51 PM	Tested	PASS	PASS	PASS	PASS	PASS
01083	10/1/2012 3:52:33 PM	Tested	PASS	PASS	PASS	PASS	PASS
01084	10/1/2012 5:08:47 PM	Tested	PASS	PASS	PASS	PASS	PASS
01085	10/1/2012 4:04:37 PM	Tested	PASS	PASS	PASS	PASS	PASS
01092	10/1/2012 3:36:28 PM	Tested	PASS	PASS	PASS	PASS	PASS
01093	10/1/2012 10:28:52 AM	Tested	PASS	PASS	PASS	PASS	PASS
01094	10/1/2012 10:18:40 AM	Tested	PASS	PASS	PASS	PASS	PASS
01096	10/1/2012 1:46:49 PM	--	--	--	--	--	PASS
01096	10/1/2012 1:45:03 PM	--	--	--	--	PASS	--
01096	10/1/2012 1:36:35 PM	Tested	PASS	PASS	PASS	OVER CURRENT	--
01097	10/1/2012 1:07:13 PM	Tested	PASS	PASS	PASS	PASS	PASS
01098	10/4/2012 1:31:42 PM	Tested	PASS	PASS	PASS	PASS	PASS
01099	10/1/2012 12:34:14 PM	Tested	PASS	PASS	PASS	PASS	PASS
01100	10/1/2012 12:50:24 PM	Tested	PASS	PASS	PASS	PASS	PASS
01118	10/2/2012 7:06:06 AM	Tested	PASS	PASS	PASS	PASS	PASS
01120	10/2/2012 8:23:19 AM	Tested	PASS	PASS	MIN PI	--	--
01127	10/2/2012 8:07:07 AM	Tested	PASS	PASS	PASS	PASS	PASS
01128	10/2/2012 7:54:21 AM	Tested	PASS	PASS	PASS	PASS	PASS
01134	10/2/2012 4:45:02 PM	Tested	PASS	PASS	PASS	PASS	PASS
01147	10/3/2012 11:32:46 AM	Tested	PASS	OVER CURRENT	--	--	--
01149	10/3/2012	Tested	PASS	PASS	PASS	PASS	PASS

	10:42:10 AM						
01161	10/2/2012 10:15:34 AM	Tested	PASS	OVER CURRENT	--	--	--
01162	10/2/2012 11:47:27 AM	Tested	PASS	PASS	PASS	PASS	PASS
01168	10/1/2012 11:16:11 AM	Tested	PASS	PASS	MIN PI	PASS	PASS
01188	10/1/2012 11:36:57 AM	--	--	--	--	--	PASS
01188	10/1/2012 11:35:07 AM	--	--	--	--	PASS	--
01188	10/1/2012 11:32:19 AM	--	--	PASS	PASS	--	--
01188	10/1/2012 11:21:34 AM	--	--	PASS	--	--	--
01188	10/1/2012 11:19:13 AM	Tested	DELTA R	PASS	USER ABORT	--	--
01188	10/1/2012 11:13:24 AM	Tested	DELTA R	--	--	--	--
01189	10/1/2012 1:41:12 PM	Tested	PASS	PASS	PASS	PASS	PASS
01190	10/1/2012 1:50:53 PM	Tested	PASS	PASS	PASS	PASS	PASS
01191	10/1/2012 7:45:37 AM	Tested	PASS	PASS	PASS	PASS	PASS
01192	10/1/2012 7:10:01 AM	Tested	PASS	PASS	PASS	PASS	PASS
01197	10/1/2012 10:47:14 AM	Tested	PASS	PASS	PASS	PASS	PASS
01201	10/1/2012 2:44:26 PM	--	--	OVER CURRENT	--	--	--
01201	10/1/2012 2:39:24 PM	--	--	OVER CURRENT	--	--	--
01201	10/1/2012 2:36:15 PM	Tested	MAX R Range Exceeded	--	--	--	--
01201	10/1/2012 2:29:11 PM	Tested	PASS	PASS	PASS	PASS	PASS
01201	10/1/2012 10:49:41 AM	Tested	DELTA R	--	--	--	--
01204	10/1/2012 4:44:27 PM	Tested	PASS	PASS	PASS	PASS	PASS
01207	10/1/2012 2:03:19 PM	Tested	PASS	PASS	PASS	PASS	PASS
01218	10/1/2012 11:54:36 AM	Tested	PASS	PASS	PASS	PASS	PASS
01220	10/1/2012 9:12:45 AM	Tested	PASS	PASS	PASS	PASS	PASS
01278	10/1/2012 10:59:42 AM	Tested	PASS	PASS	PASS	PASS	PASS
01291	10/1/2012 12:47:53 PM	Tested	PASS	PASS	PASS	PASS	PASS
01299	10/1/2012 10:29:36 AM	--	--	--	--	--	PASS
01299	10/1/2012 10:27:48 AM	--	--	--	--	USER ABORT	--
01299	10/1/2012 10:20:59 AM	Tested	PASS	PASS	MIN PI	--	--
01366	10/1/2012 2:44:00 PM	Tested	PASS	PASS	PASS	PASS	PASS
01367	10/1/2012 12:29:28 PM	Tested	PASS	PASS	PASS	PASS	PASS
01369	10/1/2012	Tested	PASS	PASS	PASS	PASS	PASS

	1:04:41 PM						
01574	10/1/2012 9:53:38 AM	Tested	PASS	PASS	PASS	PASS	PASS
01814	10/3/2012 11:18:49 AM	Tested	PASS	PASS	PASS	PASS	PASS
01816	10/2/2012 9:26:48 AM	Tested	PASS	PASS	PASS	PASS	PASS
01818	10/2/2012 9:12:00 AM	Tested	PASS	PASS	PASS	PASS	PASS
01819	10/2/2012 10:07:59 AM	Tested	PASS	PASS	PASS	PASS	PASS
01823	10/2/2012 2:40:31 PM	Tested	PASS	PASS	PASS	PASS	PASS
01827	10/3/2012 10:26:01 AM	Tested	--	PASS	OVER CURRENT	--	--
01827	10/3/2012 10:16:15 AM	Tested	PASS	MIN MEGOHM	--	--	--
01827	10/2/2012 10:47:16 AM	Tested	PASS	MIN MEGOHM	--	--	--
01828	10/2/2012 4:26:42 PM	Tested	PASS	PASS	PASS	PASS	PASS
01829	10/3/2012 1:29:16 PM	Tested	PASS	PASS	PASS	PASS	PASS
01830	10/2/2012 4:35:36 PM	Tested	PASS	PASS	PASS	PASS	PASS
01831	10/2/2012 9:54:09 AM	Tested	PASS	PASS	MIN PI	PASS	PASS
01833	10/2/2012 3:08:41 PM	Tested	PASS	PASS	PASS	PASS	PASS
01834	10/2/2012 5:32:45 PM	Tested	PASS	PASS	PASS	PASS	PASS
01836	10/2/2012 5:17:57 PM	Tested	PASS	PASS	PASS	PASS	PASS
01842	10/2/2012 2:58:53 PM	Tested	PASS	PASS	PASS	PASS	PASS
01843	10/3/2012 10:59:24 AM	Tested	PASS	PASS	PASS	PASS	PASS
01844	10/2/2012 5:02:13 PM	Tested	PASS	PASS	PASS	PASS	PASS
01845	10/2/2012 8:55:19 AM	Tested	PASS	PASS	PASS	PASS	PASS
01846	10/2/2012 7:41:04 AM	Tested	PASS	PASS	PASS	PASS	PASS
01847	10/2/2012 10:12:35 AM	Tested	PASS	OVER CURRENT	--	--	--
01847	10/2/2012 9:06:50 AM	Tested	PASS	PASS	PASS	OVER CURRENT	--
01848	10/2/2012 1:39:09 PM	Tested	PASS	PASS	PASS	PASS	PASS
01849	10/2/2012 1:30:50 PM	Tested	PASS	PASS	PASS	PASS	PASS
01850	10/2/2012 11:09:01 AM	Tested	PASS	PASS	PASS	PASS	PASS
01852	10/2/2012 12:51:17 PM	Tested	PASS	PASS	PASS	PASS	PASS
01861	10/2/2012 7:20:30 AM	Tested	PASS	PASS	PASS	PASS	PASS
01862	10/2/2012 6:50:59 AM	Tested	PASS	PASS	PASS	PASS	PASS
01863	10/3/2012 2:19:42 PM	Tested	PASS	PASS	MIN PI	--	--
01863	10/2/2012	Tested	PASS	MIN	--	--	--

	6:37:53 AM			MEGOHM			
01867	10/2/2012 1:07:00 PM	Tested	PASS	PASS	PASS	PASS	PASS
01871	10/2/2012 3:18:51 PM	Tested	PASS	PASS	PASS	PASS	PASS
01876	10/2/2012 10:30:56 AM	Tested	PASS	PASS	PASS	PASS	PASS
01877	10/2/2012 3:04:00 PM	Tested	PASS	PASS	PASS	PASS	PASS
01878	10/2/2012 10:56:38 AM	Tested	PASS	OVER CURRENT	--	--	--
01882	10/2/2012 1:29:42 PM	Tested	PASS	PASS	PASS	PASS	PASS
01883	10/2/2012 8:58:03 AM	Tested	PASS	PASS	PASS	PASS	PASS
01899	10/2/2012 1:21:09 PM	Tested	PASS	PASS	PASS	PASS	PASS
01902	10/3/2012 3:20:38 PM	Tested	--	PASS	--	--	PASS
01902	10/3/2012 3:14:32 PM	Tested	DELTA R	--	--	--	--
01902	10/2/2012 4:07:14 PM	Tested	DELTA R	PASS	PASS	PASS	PASS
01903	10/2/2012 4:17:31 PM	Tested	PASS	PASS	PASS	PASS	PASS
01906	10/2/2012 1:46:23 PM	Tested	PASS	PASS	PASS	PASS	PASS
01911	10/2/2012 3:52:07 PM	Tested	DELTA R	--	--	--	--
01912	10/2/2012 2:54:25 PM	Tested	PASS	PASS	PASS	PASS	PASS
01913	10/2/2012 2:23:46 PM	Tested	PASS	PASS	PASS	PASS	PASS
01918	10/2/2012 12:03:06 PM	Tested	PASS	PASS	PASS	PASS	PASS
01919	10/2/2012 11:29:07 AM	Tested	PASS	PASS	PASS	PASS	PASS
01920	10/2/2012 12:39:42 PM	Tested	PASS	PASS	PASS	PASS	PASS
02171	10/2/2012 12:26:24 PM	Tested	PASS	PASS	PASS	PASS	PASS
02433	10/2/2012 10:37:09 AM	Tested	PASS	PASS	PASS	PASS	PASS
02448	10/4/2012 4:35:11 PM	Tested	PASS	PASS	PASS	PASS	PASS
02504	10/2/2012 2:01:05 PM	Tested	PASS	PASS	PASS	PASS	PASS
02507	10/2/2012 11:09:37 AM	Tested	PASS	PASS	PASS	PASS	PASS
02510	10/2/2012 2:46:13 PM	Tested	PASS	PASS	PASS	PASS	PASS
02563	10/4/2012 9:32:15 AM	Tested	PASS	PASS	PASS	PASS	PASS
02564	10/4/2012 9:44:48 AM	Tested	PASS	PASS	PASS	PASS	PASS
02602	10/4/2012 3:16:51 PM	--	--	--	--	--	ppEAR LIMIT
02602	10/4/2012 1:18:53 PM	--	--	--	--	--	ppEAR LIMIT
02602	10/4/2012 11:22:22 AM	Tested	--	PASS	PASS	--	--
02602	10/4/2012	--	--	--	--	--	ppEAR LIMIT

	11:17:32 AM						
02602	10/4/2012 11:14:47 AM	Tested	--	PASS	--	--	--
02602	10/4/2012 11:13:02 AM	Tested	PASS	PASS	PASS	OVER CURRENT	--
02610	10/4/2012 8:53:01 AM	Tested	PASS	PASS	PASS	PASS	PASS
02611	10/4/2012 9:05:06 AM	Tested	PASS	PASS	PASS	PASS	PASS
02695	10/3/2012 8:14:06 AM	Tested	MAX R Range Exceeded	--	--	--	--
02696	10/3/2012 8:43:27 AM	Tested	PASS	PASS	PASS	PASS	PASS
02697	10/3/2012 8:31:06 AM	Tested	PASS	PASS	PASS	PASS	PASS
02698	10/3/2012 9:46:08 AM	Tested	PASS	PASS	PASS	PASS	PASS
02699	10/3/2012 9:59:13 AM	Tested	PASS	PASS	PASS	PASS	PASS
02708	10/3/2012 12:58:46 PM	Tested	PASS	PASS	PASS	PASS	PASS
02853	10/4/2012 2:50:24 PM	Tested	PASS	PASS	PASS	PASS	PASS
02854	10/4/2012 2:41:05 PM	Tested	PASS	PASS	PASS	PASS	PASS
02855	10/4/2012 2:04:39 PM	Tested	PASS	PASS	PASS	PASS	PASS
02856	10/4/2012 2:18:58 PM	Tested	PASS	PASS	PASS	PASS	PASS
02857	10/4/2012 2:32:07 PM	Tested	PASS	PASS	PASS	PASS	PASS
02858	10/3/2012 6:47:35 AM	Tested	PASS	PASS	PASS	PASS	PASS
02859	10/3/2012 10:11:51 AM	Tested	PASS	PASS	PASS	PASS	PASS
02860	10/3/2012 10:40:32 AM	Tested	PASS	PASS	PASS	PASS	PASS
02861	10/3/2012 7:07:21 AM	Tested	PASS	PASS	PASS	PASS	PASS
02862	10/3/2012 7:45:21 AM	Tested	PASS	PASS	PASS	PASS	PASS
02863	10/3/2012 10:21:03 AM	Tested	PASS	PASS	PASS	PASS	PASS
02896	10/3/2012 1:13:01 PM	Tested	PASS	PASS	PASS	PASS	PASS
02934	10/3/2012 5:36:45 PM	Tested	PASS	PASS	PASS	PASS	PASS
02977	10/4/2012 8:13:05 AM	Tested	PASS	PASS	PASS	PASS	PASS
02978	10/4/2012 7:32:55 AM	Tested	PASS	PASS	PASS	PASS	PASS
02979	10/4/2012 8:03:33 AM	Tested	PASS	PASS	PASS	PASS	PASS
02980	10/4/2012 8:39:44 AM	Tested	PASS	PASS	PASS	PASS	PASS
02983	10/4/2012 8:29:38 AM	Tested	PASS	PASS	PASS	PASS	PASS
02984	10/4/2012 9:58:31 AM	Tested	PASS	PASS	PASS	PASS	PASS
02985	10/4/2012 7:43:26 AM	Tested	PASS	PASS	PASS	PASS	PASS
02986	10/4/2012	Tested	PASS	PASS	PASS	PASS	PASS

	8:21:22 AM						
02990	10/4/2012 7:54:39 AM	Tested	PASS	PASS	PASS	PASS	PASS
02992	10/4/2012 9:45:38 AM	Tested	PASS	PASS	PASS	PASS	PASS
02994	10/4/2012 8:48:40 AM	Tested	PASS	PASS	PASS	PASS	PASS
02995	10/4/2012 10:07:11 AM	Tested	PASS	PASS	PASS	PASS	PASS
02997	10/4/2012 12:04:50 PM	Tested	PASS	PASS	PASS	PASS	PASS
02998	10/4/2012 10:18:27 AM	Tested	PASS	PASS	PASS	PASS	PASS
03002	10/4/2012 7:00:40 AM	Tested	PASS	PASS	PASS	PASS	PASS
03003	10/4/2012 7:20:57 AM	Tested	PASS	PASS	PASS	PASS	PASS
03004	10/4/2012 6:34:53 AM	Tested	PASS	PASS	PASS	PASS	PASS
03005	10/4/2012 6:47:26 AM	Tested	PASS	PASS	PASS	PASS	PASS
03159	10/3/2012 4:27:55 PM	Tested	PASS	PASS	PASS	PASS	PASS
03330	10/2/2012 8:42:06 AM	Tested	PASS	PASS	PASS	PASS	PASS
303005099	10/2/2012 1:18:38 PM	Tested	PASS	PASS	PASS	PASS	PASS
322005010	10/2/2012 1:52:41 PM	Tested	PASS	OVER CURRENT	--	--	--
322005011	10/2/2012 2:05:31 PM	Tested	PASS	PASS	PASS	PASS	PASS
322005021	10/2/2012 8:41:55 AM	Tested	PASS	PASS	PASS	PASS	PASS
382005249	10/3/2012 8:10:26 AM	Tested	PASS	PASS	PASS	PASS	PASS
382005250	10/3/2012 7:56:23 AM	Tested	PASS	PASS	PASS	PASS	PASS
402005020	10/2/2012 3:21:17 PM	Tested	PASS	PASS	PASS	PASS	PASS
402005036	10/2/2012 12:43:55 PM	Tested	--	PASS	--	--	--
402005036	10/2/2012 12:41:04 PM	Tested	PASS	PASS	PASS	OVER CURRENT	PASS
402005210	10/2/2012 2:35:10 PM	Tested	PASS	PASS	PASS	PASS	PASS
402005220	10/2/2012 2:16:16 PM	Tested	PASS	PASS	PASS	PASS	PASS
452005037	10/1/2012 2:04:08 PM	Tested	PASS	PASS	PASS	PASS	PASS
452005125	10/1/2012 1:26:06 PM	Tested	PASS	PASS	MIN PI	PASS	PASS
4720051072 Rotor	10/1/2012 8:16:48 AM	Tested	PASS	OVER CURRENT	--	--	--
4720051072 Rotor	10/1/2012 8:15:10 AM	Tested	MAX R Range Exceeded	--	--	--	--
4720051072 Stator	10/1/2012 8:05:52 AM	Tested	PASS	MIN MEGOHM	--	--	--
472005154	10/4/2012 2:03:07 PM	Tested	PASS	PASS	PASS	PASS	PASS
472005235	10/4/2012 3:00:28 PM	Tested	PASS	PASS	PASS	PASS	PASS
472005236	10/4/2012	Tested	PASS	PASS	PASS	PASS	PASS

	3:19:48 PM						
472005608	10/4/2012 3:31:12 PM	Tested	PASS	PASS	PASS	PASS	PASS
522005014	10/3/2012 5:49:36 PM	Tested	PASS	PASS	PASS	PASS	PASS
EO-1174	10/3/2012 2:23:50 PM	Tested	PASS	MIN MEGOHM	--	--	--

Exceptions Analysis and Recommendations

EO-01015	Condition Code	Observe

Surge test results reveal low level instability of turn to turn insulation.

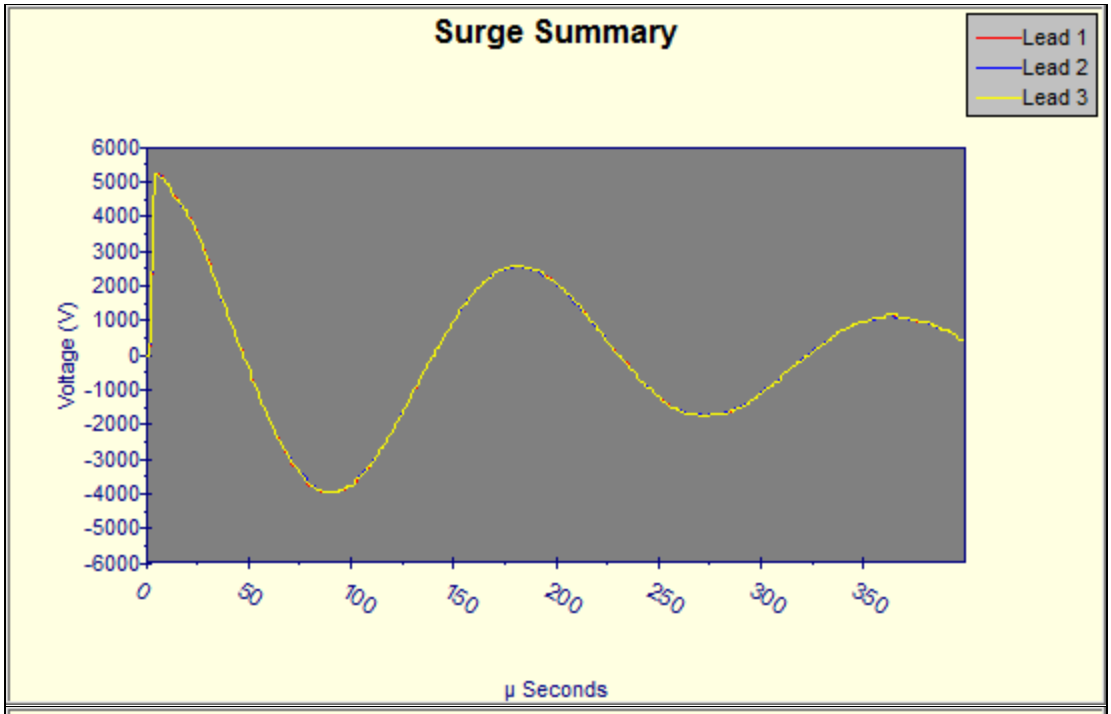
Retest at next availability and trend for condition.

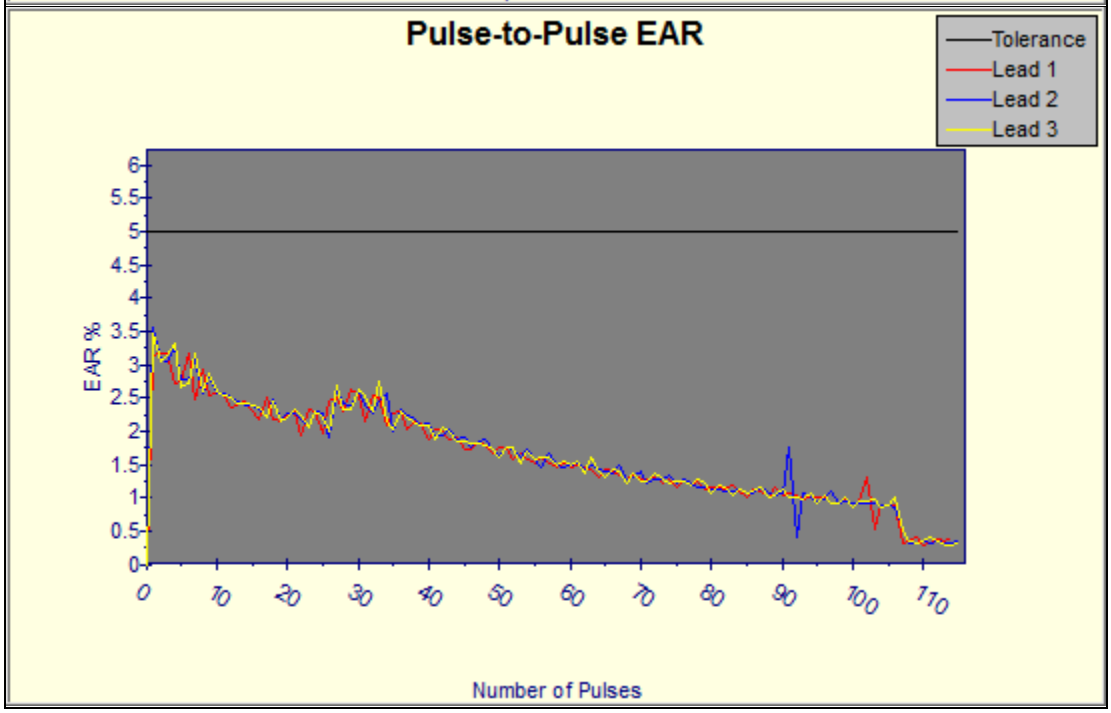
Location	**2 Utilities-Evaps**	Legacy #	**352005016**
Model		Manufacturer	
Serial Number		HP/KW	**400**
Volts-Rating	**2300**	Volts-Operating	**2300**
Amps-Rating	**89**	Amps-Operating	**0**
Insulation		Enclosure	
RPM	**1800**	Service Factor	**0**
Frame		Freq-Hz	**0**
LR Code		LR Amps	**0**
NEMA Design		Max Amb °C	**0**
NEMA nom eff	**0**	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	**MOTOR, 1ST EFFECT RECIRC PUMP**		

Results Summary		**Test Date/Time 10/4/2012 11:33:56 AM**	
Test ID:	**IP 2300V w/ Rotor StepV**	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	**2 Utilities-Evaps**	Legacy #	**352005016**
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	**25.0°C 77.0°F**	Volts (V)	**1010**
Resist Status	**PASS**	DA Ratio	**4.8**
L1-L2 (Ohms)	**0.353 Corr: 0.353**	PI Ratio	**DA Only**
L2-L3 (Ohms)	**0.353 Corr: 0.353**	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	**0.353 Corr: 0.353**	Volts (V)	**5600**
Max Delta R %	**0.114**	I(µA)	**0.45**
Coil 1 (Ohms)	**0.177 Corr: 0.177**	Resist (Mohm)	**12579 At 40°C 4447**
Coil 2 (Ohms)	**0.176 Corr: 0.176**	**Surge Status**	**PASS**
Coil 3 (Ohms)	**0.177 Corr: 0.177**	Peak Volt(V) L1	**5650**
Megohm Status	**PASS**	Peak Volt(V) L2	**5600**
Volts (V)	**1010**	Peak Volt(V) L3	**5650**
I(µA)	**0.12**	Max P-P EAR(%)	**3.2/3.6/3.5**
Resist (Mohm)	**8742 At 40°C 3090**	EAR 1-2/2-3/3-1(%)	**No Test**

Pulse-to-Pulse EAR			Motor ID 01015
Test Date/Time	10/4/2012 11:33:56 AM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	5650	PASS	3.2
2	5600	PASS	3.6
3	5650	PASS	3.5





EO-01018	Condition Code	Observe

Surge test results reveal low level instability of turn to turn insulation.

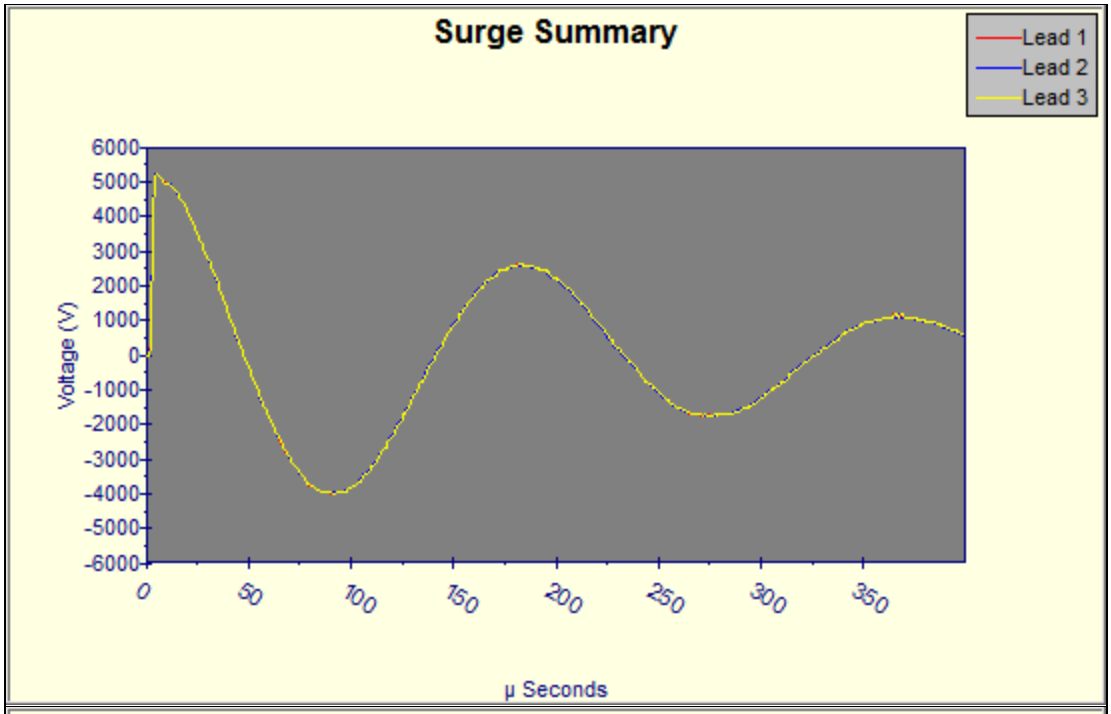
Retest at next availability and trend for condition.

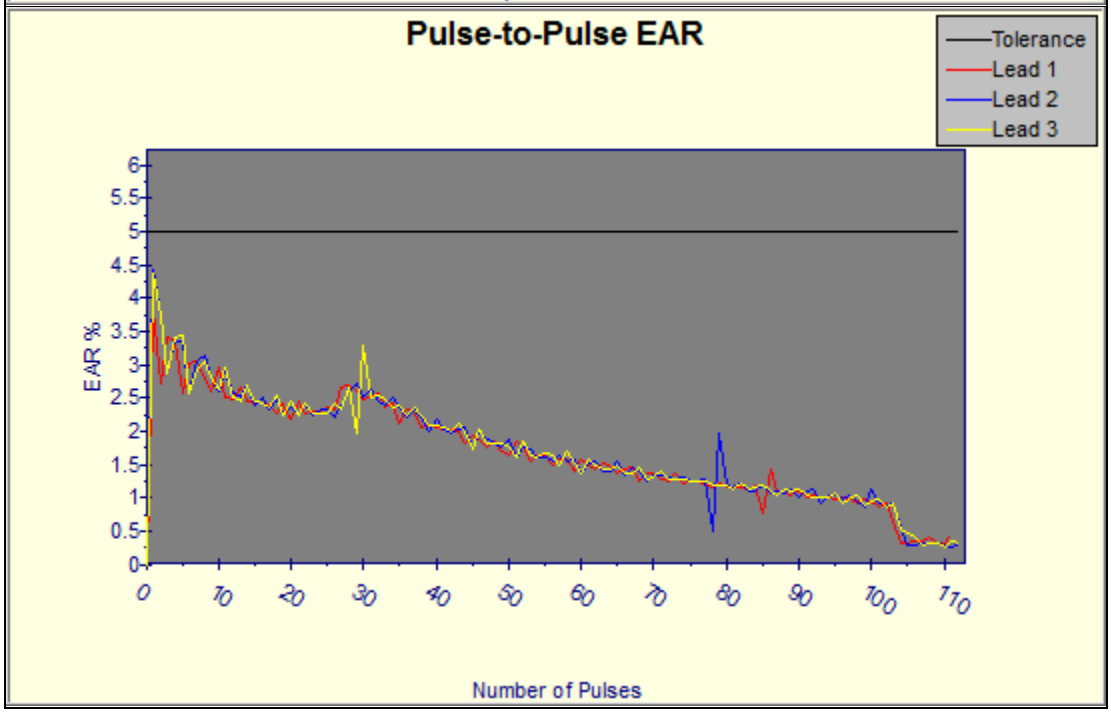
Nameplate Information		Motor ID 01018	
Location	2 Utilities-Evaps	Legacy #	352005022
Model		Manufacturer	
Serial Number		HP/KW	350
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	79	Amps-Operating	0
Insulation		Enclosure	
RPM	1800	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, #2 HSC CIRCULATION PUMP		

Results Summary		Test Date/Time 10/4/2012 10:39:27 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-Evaps	Legacy #	352005022
Memo	surge reading has alot of spikes moved leads and retested cleared up on second test		
Temp Status	Tested	PI Status	PASS
Temp	26.0°C 78.8°F	Volts (V)	1000
Resist Status	PASS	DA Ratio	2.9
L1-L2 (Ohms)	0.433 Corr: 0.431	PI Ratio	2.8
L2-L3 (Ohms)	0.433 Corr: 0.432	Step-Voltage	PASS
L3-L1 (Ohms)	0.433 Corr: 0.432	Volts (V)	5600
Max Delta R %	0.094	I(µA)	1.80
Coil 1 (Ohms)	0.217 Corr: 0.216	Resist (Mohm)	3111 At 40°C 1178
Coil 2 (Ohms)	0.217 Corr: 0.216	Surge Status	PASS
Coil 3 (Ohms)	0.217 Corr: 0.216	Peak Volt(V) L1	5600
Megohm Status	PASS	Peak Volt(V) L2	5600
Volts (V)	1000	Peak Volt(V) L3	5600
I(µA)	0.33	Max P-P EAR(%)	3.8/4.4/4.4
Resist (Mohm)	3060 At 40°C 1159	EAR 1-2/2-3/3-1(%)	No Test

Pulse-to-Pulse EAR			Motor ID 01018
Test Date/Time	10/4/2012 10:41:52 AM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	5600	PASS	3.8
2	5600	PASS	4.4
3	5600	PASS	4.4





EO-01019	Condition Code	Observe

Resistive imbalance out of tolerance. Motor isolated and test results confirmed. Previously installed motor had also failed resistive imbalance test.

Request motor winding data from OEM to determine if winding is special design that would require specialized test requirements.

Nameplate Information		Motor ID 01019	
Location	2 Utilities-Evaps	Legacy #	352005024
Model		Manufacturer	
Serial Number		HP/KW	20
Volts-Rating	480	Volts-Operating	480
Amps-Rating	24.5	Amps-Operating	0
Insulation		Enclosure	
RPM	1800	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, STRIPPER PRODUCT PUMP		

Results Summary		Test Date/Time 10/4/2012 12:35:42 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-Evaps	Legacy #	352005024
Memo	unbalance in resistance all other test normal this test done at motor motor was changed last year		
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	27.0°C 80.6°F	Volts (V)	510
Resist Status	**DELTA R**	DA Ratio	1.0
L1-L2 (Ohms)	0.435 Corr: 0.432	PI Ratio	DA Only
L2-L3 (Ohms)	0.468 Corr: 0.464	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.463 Corr: 0.460	Volts (V)	2000
Max Delta R %	7.184	I(µA)	0.38
Coil 1 (Ohms)	0.215 Corr: 0.214	Resist (Mohm)	5263 At 40°C 2137
Coil 2 (Ohms)	0.220 Corr: 0.218	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.248 Corr: 0.246	Peak Volt(V) L1	2000
Megohm Status	**PASS**	Peak Volt(V) L2	2040
Volts (V)	510	Peak Volt(V) L3	2040
I(µA)	0.05	Max P-P EAR(%)	2.8/2.7/2.7
Resist (Mohm)	10812 At 40°C 4391	EAR 1-2/2-3/3-1(%)	No Test

EO-01033	Condition Code	Observe

PI value is below IEEE 43 recommended minimum. Reading likely due moisture.

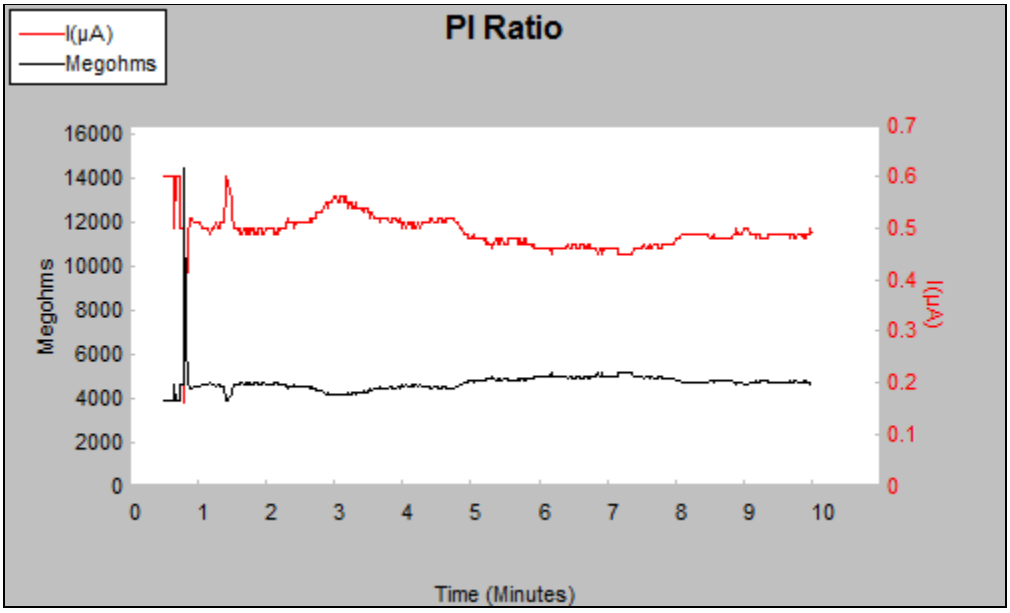
Retest at next availability and trend for condition. Ensure motor heater circuit is operational and energized when motor is not in operation for extended periods

Nameplate Information		Motor ID 01033	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005100
Model		Manufacturer	
Serial Number		HP/KW	350
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	82	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, PRIMARY FORCED DRAFT FAN		

Results Summary		Test Date/Time 10/3/2012 11:04:14 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005100
Temp Status	Tested	PI Status	MIN PI
Temp	30.0°C 86.0°F	Volts (V)	2300
Resist Status	PASS	DA Ratio	1.1
L1-L2 (Ohms)	0.467 Corr: 0.458	PI Ratio	1.1
L2-L3 (Ohms)	0.467 Corr: 0.458	Step-Voltage	PASS
L3-L1 (Ohms)	0.467 Corr: 0.458	Volts (V)	5600
Max Delta R %	0.087	I(µA)	1.30
Coil 1 (Ohms)	0.234 Corr: 0.229	Resist (Mohm)	4308 At 40°C 2154
Coil 2 (Ohms)	0.234 Corr: 0.229	Surge Status	PASS
Coil 3 (Ohms)	0.233 Corr: 0.229	Peak Volt(V) L1	5600
Megohm Status	PASS	Peak Volt(V) L2	5600
Volts (V)	2300	Peak Volt(V) L3	5600
I(µA)	0.51	Max P-P EAR(%)	3.4/4.0/4.1
Resist (Mohm)	4495 At 40°C 2247	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01033
Test Date/Time	10/3/2012 11:04:14 AM	Voltage (V)	2300
DA Ratio	1.1	PI Ratio	1.1
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	0.69	3333
0:30	0.60	3833
0:45	0.50	4600
1:00	0.51	4509
1:30	0.50	4600
2:00	0.50	4600
2:30	0.50	4600
3:00	0.55	4181
4:00	0.50	4600
5:00	0.49	4693
6:00	0.46	5000
7:00	0.45	5111
8:00	0.48	4791
9:00	0.50	4600
10:00	0.48	4791



EO-01036	Condition Code	Observe

PI value is below IEEE 43 recommended minimum. Reading likely due moisture.

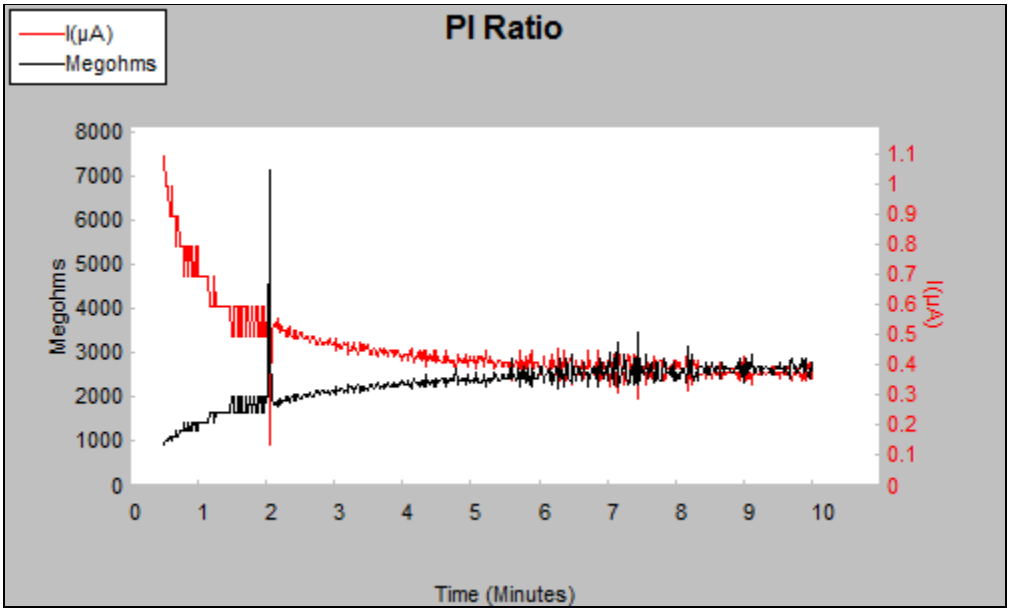
Retest at next availability and trend for condition. Ensure motor heater circuit is operational and energized when motor is not in operation for extended periods

Nameplate Information		Motor ID 01036	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005139
Model		Manufacturer	
Serial Number		HP/KW	1750
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	383	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, W INDUCED DRAFT FAN		

Results Summary		Test Date/Time 10/3/2012 9:19:16 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005139
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	30.0°C 86.0°F	Volts (V)	1000
Resist Status	**PASS**	DA Ratio	2.2
L1-L2 (Ohms)	0.0662 Corr: 0.0650	PI Ratio	1.9
L2-L3 (Ohms)	0.0663 Corr: 0.0651	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.0663 Corr: 0.0650	Volts (V)	5600
Max Delta R %	0.134	I(µA)	6.20
Coil 1 (Ohms)	0.0331 Corr: 0.0325	Resist (Mohm)	903 At 40°C 451
Coil 2 (Ohms)	0.0331 Corr: 0.0325	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.0332 Corr: 0.0326	Peak Volt(V) L1	5600
Megohm Status	**PASS**	Peak Volt(V) L2	5600
Volts (V)	1000	Peak Volt(V) L3	5600
I(µA)	0.70	Max P-P EAR(%)	2.3/2.8/2.6
Resist (Mohm)	1429 At 40°C 714	EAR 1-2/2-3/3-1(%)	No Test

DA/PI			Motor ID 01036
Test Date/Time	10/3/2012 9:19:16 AM	Voltage (V)	1000
DA Ratio	2.2	PI Ratio	1.9
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	1.52	657
0:30	1.02	980
0:45	0.80	1250
1:00	0.73	1369
1:30	0.56	1785
2:00	0.33	3030
2:30	0.49	2040
3:00	0.46	2173
4:00	0.43	2325
5:00	0.42	2380
6:00	0.38	2631
7:00	0.32	3125
8:00	0.36	2777
9:00	0.36	2777
10:00	0.38	2631



EO-01040	Condition Code	Observe

Resistive imbalance out of tolerance. Insulation resistance below IEEE-43 recommended minimum.
Motor isolated and retested satisfactory

Retest at next availability and trend for condition. Ensure motor heater circuit is operational and energized when motor is not in operation for extended periods

Nameplate Information		Motor ID 01040	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005211
Model		Manufacturer	
Serial Number		HP/KW	1750
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	383	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, E INDUCED DRAFT FAN		

Results Summary		Test Date/Time 10/3/2012 8:42:08 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005211
Memo	Resistive imbalance failed, significant shif from previous test. Insulation resistance value below IEEE 43 recommended minimum. Recommend isolating motor aretesting		
Temp Status	**Tested**	**PI Status**	**No Test Performed**
Temp	30.0°C 86.0°F	Volts (V)	0
Resist Status	**DELTA R**	DA Ratio	0.0
L1-L2 (Ohms)	0.0685 Corr: 0.0672	PI Ratio	0.0
L2-L3 (Ohms)	0.0685 Corr: 0.0672	**HiPot**	**No Test Performed**
L3-L1 (Ohms)	0.0662 Corr: 0.0650	Volts (V)	0
Max Delta R %	3.286	I(µA)	0
Coil 1 (Ohms)	0.0331 Corr: 0.0325	Resist (Mohm)	0
Coil 2 (Ohms)	0.0353 Corr: 0.0347	**Surge Status**	**No Test Performed**
Coil 3 (Ohms)	0.0331 Corr: 0.0325	Peak Volt(V) L1	0
Megohm Status	**MIN MEGOHM**	Peak Volt(V) L2	0
Volts (V)	2300	Peak Volt(V) L3	0
I(µA)	36.00	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	64 At 40°C 32	EAR 1-2/2-3/3-1(%)	No Test

Results Summary		Test Date/Time 10/3/2012 12:13:36 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005211
Memo	1st test at motor		
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	30.0°C 86.0°F	Volts (V)	1000
Resist Status	**PASS**	DA Ratio	1.9
L1-L2 (Ohms)	0.0571 Corr: 0.0560	PI Ratio	2.0
L2-L3 (Ohms)	0.0571 Corr: 0.0560	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.0562 Corr: 0.0552	Volts (V)	5600
Max Delta R %	1.510	I(µA)	4.90
Coil 1 (Ohms)	0.0281 Corr: 0.0276	Resist (Mohm)	1143 At 40°C 571
Coil 2 (Ohms)	0.0290 Corr: 0.0284	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.0281 Corr: 0.0276	Peak Volt(V) L1	5600
Megohm Status	**PASS**	Peak Volt(V) L2	5600
Volts (V)	1000	Peak Volt(V) L3	5600
I(µA)	1.10	Max P-P EAR(%)	2.5/2.7/2.8
Resist (Mohm)	909 At 40°C 454	EAR 1-2/2-3/3-1(%)	No Test

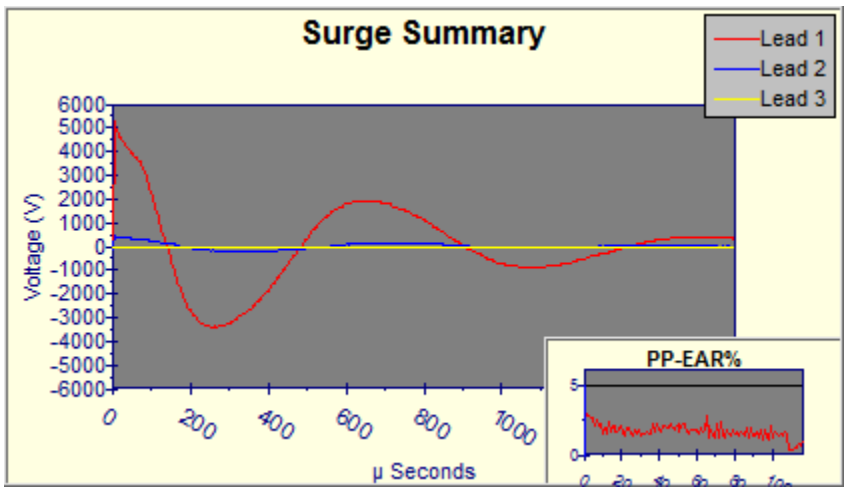
EO-01068	Condition Code	Observe

Initial surge test failed, reconnected, retested 2nd surge test passed but low level variances in PP-EAR data are indicated.

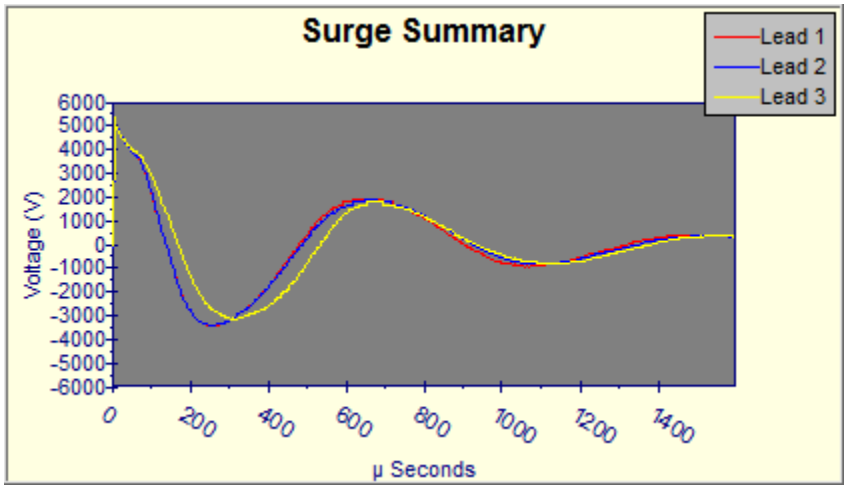
Retest within 6 months and trend for condition

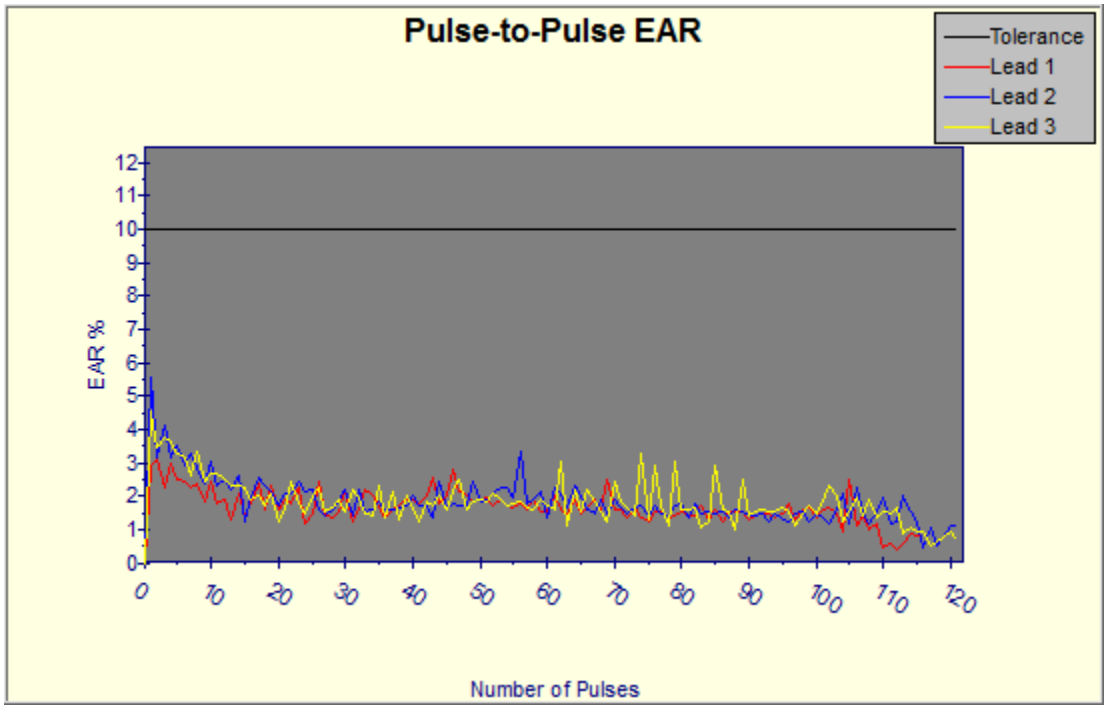
Nameplate Information		Motor ID 01068	
Location	2 Paper Machine-472	Legacy #	472005629
Model		Manufacturer	GE
Serial Number		HP/KW	250
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	59	Amps-Operating	0
Insulation		Enclosure	
RPM	895	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	#3 PRIMARY SCREEN MOTOR		

Results Summary		Test Date/Time 10/1/2012 3:23:01 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-472	Legacy #	472005629
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	27.0°C 80.6°F	Volts (V)	2320
Resist Status	**PASS**	DA Ratio	2.5
L1-L2 (Ohms)	0.632 Corr: 0.627	PI Ratio	DA Only
L2-L3 (Ohms)	0.634 Corr: 0.629	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.634 Corr: 0.629	Volts (V)	5600
Max Delta R %	0.309	I(µA)	0.50
Coil 1 (Ohms)	0.316 Corr: 0.314	Resist (Mohm)	11200 At 40°C 4548
Coil 2 (Ohms)	0.316 Corr: 0.314	**Surge Status**	**ppEAR LIMIT**
Coil 3 (Ohms)	0.318 Corr: 0.315	Peak Volt(V) L1	5650
Megohm Status	**PASS**	Peak Volt(V) L2	540 Failed
Volts (V)	2320	Peak Volt(V) L3	0
I(µA)	0.31	Max P-P EAR(%)	3.0/5.2/--
Resist (Mohm)	7394 At 40°C 3002	EAR 1-2/2-3/3-1(%)	No Test



Results Summary		Test Date/Time 10/1/2012 3:28:50 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-472	Legacy #	472005629
Temp Status	**No Test Performed**	**PI Status**	**No Test Performed**
Temp	No Temp, RH 0%	Volts (V)	0
Resist Status	**No Test Performed**	DA Ratio	0.0
L1-L2 (Ohms)	0 Corr: 0	PI Ratio	0.0
L2-L3 (Ohms)	0 Corr: 0	**HiPot**	**No Test Performed**
L3-L1 (Ohms)	0 Corr: 0	Volts (V)	0
Max Delta R %	0.000	I(µA)	0
Coil 1 (Ohms)	0 Corr: 0	Resist (Mohm)	0
Coil 2 (Ohms)	0 Corr: 0	**Surge Status**	**PASS**
Coil 3 (Ohms)	0 Corr: 0	Peak Volt(V) L1	5600
Megohm Status	**No Test Performed**	Peak Volt(V) L2	5650
Volts (V)	0	Peak Volt(V) L3	5600
I(µA)	0	Max P-P EAR(%)	3.1/5.6/4.6
Resist (Mohm)	0	EAR 1-2/2-3/3-1(%)	No Test





EO-01079	Condition Code	Observe

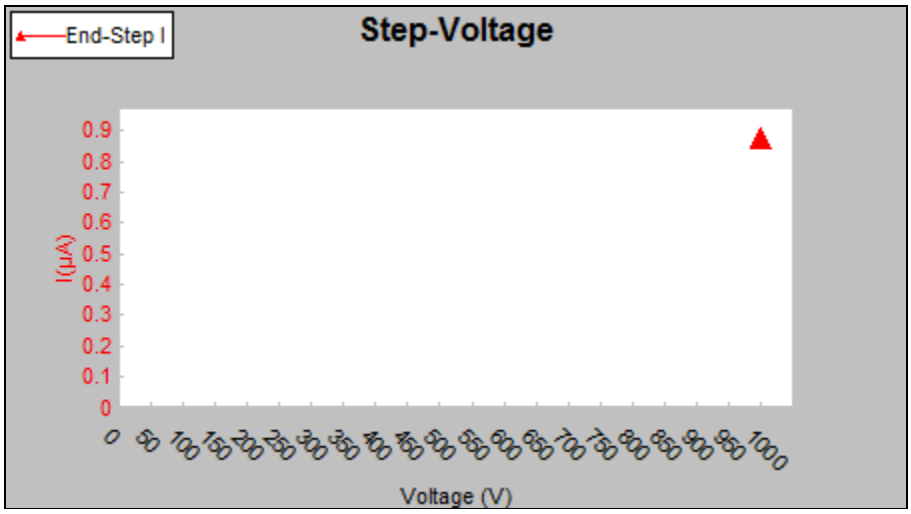
Initial step voltage test failed on surge current, 2nd test conducted and passed. Similar results during fall 2011 outage testing.

Isolate motor and evaluate feed cable and motor separately at next availability

Nameplate Information		Motor ID 01079	
Location	2 Paper Machine-472	Legacy #	472005290
Model		Manufacturer	SIEMENS
Serial Number		HP/KW	100
Volts-Rating	460	Volts-Operating	460
Amps-Rating	115	Amps-Operating	0
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	#1 MAIN HOOD VAC ROLL EXHAUST FAN MOTOR		

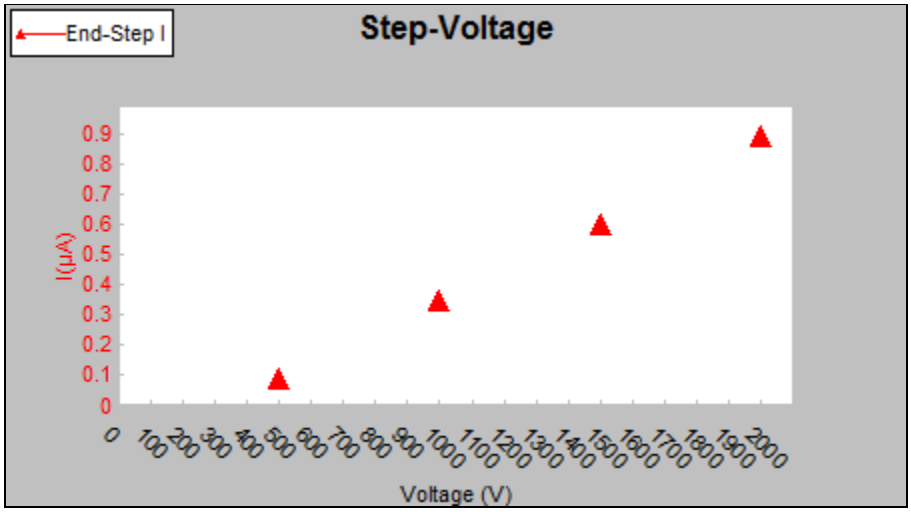
Results Summary		Test Date/Time 10/1/2012 2:15:53 PM	
Test ID:	IP 480V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-472	Legacy #	472005290
Temp Status	Tested	PI Status	PASS
Temp	27.0°C 80.6°F	Volts (V)	510
Resist Status	PASS	DA Ratio	5.0
L1-L2 (Ohms)	0.0355 Corr: 0.0352	PI Ratio	DA Only
L2-L3 (Ohms)	0.0353 Corr: 0.0350	Step-Voltage	OVER CURRENT
L3-L1 (Ohms)	0.0355 Corr: 0.0352	Volts (V)	1000
Max Delta R %	0.608	I(µA)	0.88
Coil 1 (Ohms)	0.0179 Corr: 0.0177	Resist (Mohm)	1140 At 40°C 462
Coil 2 (Ohms)	0.0176 Corr: 0.0175	Surge Status	No Test Performed
Coil 3 (Ohms)	0.0176 Corr: 0.0175	Peak Volt(V) L1	0
Megohm Status	PASS	Peak Volt(V) L2	0
Volts (V)	510	Peak Volt(V) L3	0
I(µA)	0.07	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	7290 At 40°C 2960	EAR 1-2/2-3/3-1(%)	No Test

Step-Voltage	Motor ID 01079
Test Date/Time	10/1/2012 2:15:53 PM
DC Status	OVER CURRENT



Step Length (Sec)	Volts (V)	I(µA)	Megohms	IR@40C
17	1000	0.88	1140	462

Step-Voltage	Motor ID 01079
Test Date/Time	10/1/2012 2:21:05 PM
DC Status	PASS



Step Length (Sec)	Volts (V)	I(µA)	Megohms
30	500	0.09	5391
30	1000	0.35	2881
30	1500	0.60	2500
30	2000	0.90	2222

EO-01096	Condition Code	Observe

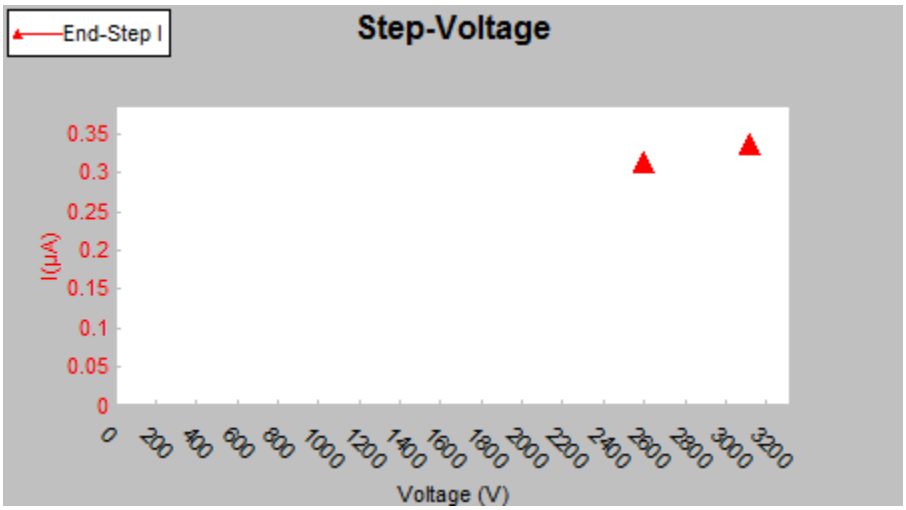
Initial step voltage test failed on surge current, 2nd test conducted and passed.

Retest at next outage and trend for condition

Nameplate Information		Motor ID 01096	
Location	2 Paper Machine-472	Legacy #	472005139
Model		Manufacturer	GE
Serial Number		HP/KW	350
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	79	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	#1 SIZE PRESS PULPER ROTOR MOTOR		

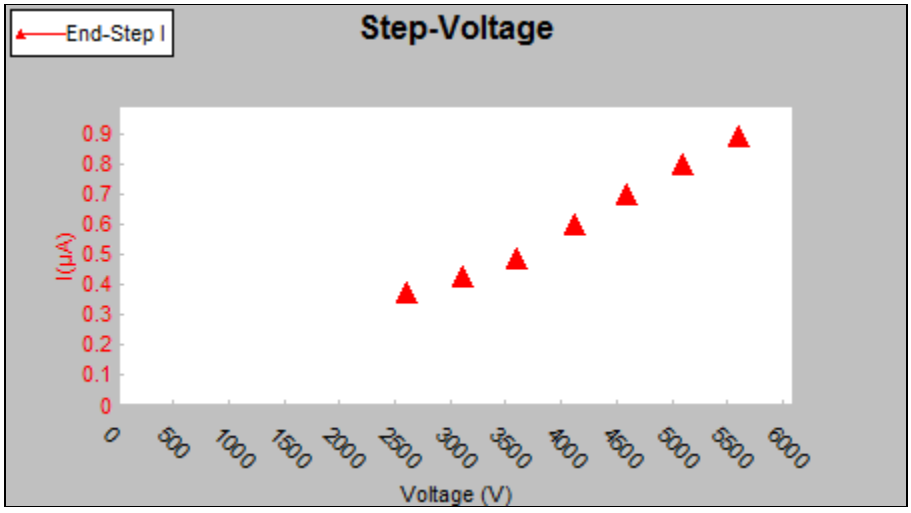
Results Summary		Test Date/Time 10/1/2012 1:36:35 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-472	Legacy #	472005139
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	27.0°C 80.6°F	Volts (V)	2300
Resist Status	**PASS**	DA Ratio	1.4
L1-L2 (Ohms)	0.338 Corr: 0.335	PI Ratio	DA Only
L2-L3 (Ohms)	0.338 Corr: 0.336	**Step-Voltage**	**OVER CURRENT**
L3-L1 (Ohms)	0.338 Corr: 0.336	Volts (V)	3120
Max Delta R %	0.119	I(µA)	0.34
Coil 1 (Ohms)	0.169 Corr: 0.168	Resist (Mohm)	9241 At 40°C 3753
Coil 2 (Ohms)	0.169 Corr: 0.168	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.169 Corr: 0.168	Peak Volt(V) L1	5600
Megohm Status	**PASS**	Peak Volt(V) L2	5600
Volts (V)	2300	Peak Volt(V) L3	5600
I(µA)	0.31	Max P-P EAR(%)	3.6/3.6/3.7
Resist (Mohm)	7541 At 40°C 3062	EAR 1-2/2-3/3-1(%)	No Test

Step-Voltage	Motor ID 01096
Test Date/Time	10/1/2012 1:36:35 PM
DC Status	OVER CURRENT



Step Length (Sec)	Volts (V)	I(µA)	Megohms	IR@40C
30	2600	0.31	8301	3371
75	3120	0.34	9241	3753

Step-Voltage	Motor ID 01096
Test Date/Time	10/1/2012 1:45:03 PM
DC Status	PASS



Step Length (Sec)	Volts (V)	I(µA)	Megohms
30	2600	0.38	6871
30	3120	0.43	7277
30	3600	0.49	7312
30	4120	0.60	6867
30	4600	0.70	6571
30	5100	0.80	6375
30	5600	0.90	6222

EO-01120	Condition Code	Observe

PI value is below IEEE 43 recommended minimum. Reading likely due moisture.

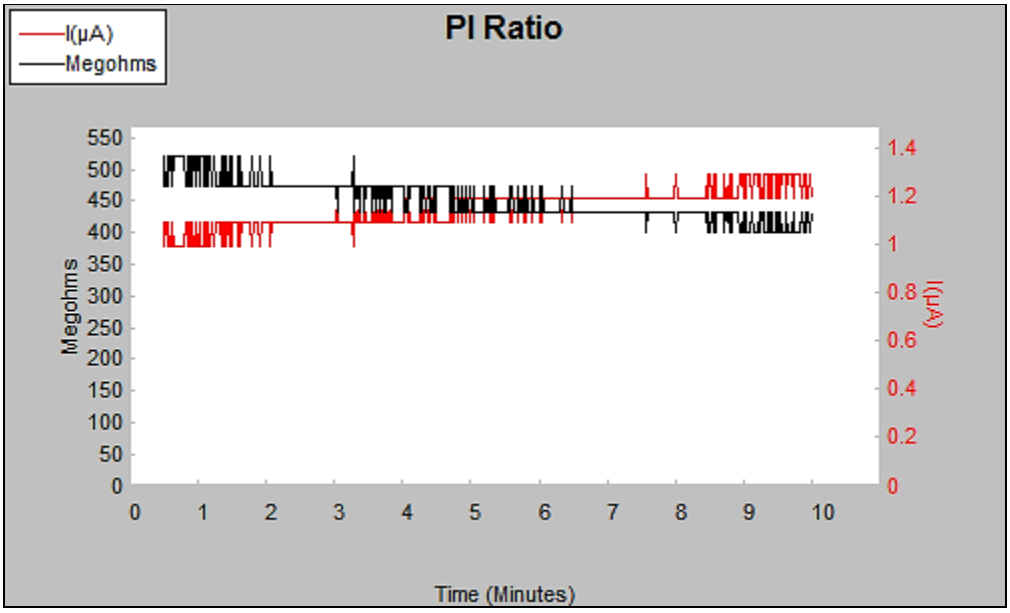
Retest at next availability and trend for condition. Ensure motor heater circuit is operational and energized when motor is not in operation for extended periods

Nameplate Information		Motor ID 01120	
Location	2 Fibers	Legacy #	312005042
Model		Manufacturer	SIEMENS
Serial Number		HP/KW	400
Volts-Rating	575	Volts-Operating	575
Amps-Rating	368	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, DIGESTER OUTLET DEVICE		

Results Summary		Test Date/Time 10/2/2012 8:23:19 AM	
Test ID:	IP 575V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	312005042
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	27.0°C 80.6°F	Volts (V)	520
Resist Status	**PASS**	DA Ratio	1.0
L1-L2 (Ohms)	0.0293 Corr: 0.0290	PI Ratio	0.8
L2-L3 (Ohms)	0.0287 Corr: 0.0285	**HiPot**	**No Test Performed**
L3-L1 (Ohms)	0.0289 Corr: 0.0287	Volts (V)	0
Max Delta R %	1.922	I(µA)	0
Coil 1 (Ohms)	0.0147 Corr: 0.0146	Resist (Mohm)	0
Coil 2 (Ohms)	0.0145 Corr: 0.0144	**Surge Status**	**No Test Performed**
Coil 3 (Ohms)	0.0142 Corr: 0.0141	Peak Volt(V) L1	0
Megohm Status	**PASS**	Peak Volt(V) L2	0
Volts (V)	520	Peak Volt(V) L3	0
I(µA)	1.00	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	520 At 40°C 211	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01120
Test Date/Time	10/2/2012 8:23:19 AM	Voltage (V)	520
DA Ratio	1.0	PI Ratio	0.8
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	1.14	456
0:30	1.08	481
0:45	1.02	509
1:00	1.02	509
1:30	1.06	490
2:00	1.08	481
2:30	1.10	472
3:00	1.10	472
4:00	1.14	456
5:00	1.16	448
6:00	1.20	433
7:00	1.20	433
8:00	1.20	433
9:00	1.22	426
10:00	1.27	409



EO-01147	Condition Code	Caution

Insulation resistance is below IEEE 43 recommended minimum. Leakage current is significant.

Motor had been recommended for removal and refurbishment based on fall 2011 test results. Insulation condition has continued to deteriorate. Remove and refurbish at soonest availability.

Nameplate Information		Motor ID 01147	
Location	2 Fibers	Legacy #	402005203
Model		Manufacturer	SIEMENS
Serial Number		HP/KW	400
Volts-Rating	575	Volts-Operating	575
Amps-Rating	354	Amps-Operating	0
Insulation		Enclosure	
RPM	1800	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, PLUG SCREW FEEDER MASTER		

Results Summary		Test Date/Time 10/3/2012 11:32:46 AM	
Test ID:	IP 575V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005203
Temp Status	Tested	PI Status	No Test Performed
Temp	30.0°C 86.0°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	0.0362 Corr: 0.0356	PI Ratio	0.0
L2-L3 (Ohms)	0.0362 Corr: 0.0355	HiPot	No Test Performed
L3-L1 (Ohms)	0.0362 Corr: 0.0355	Volts (V)	0
Max Delta R %	0.241	I(µA)	0
Coil 1 (Ohms)	0.0181 Corr: 0.0178	Resist (Mohm)	0
Coil 2 (Ohms)	0.0181 Corr: 0.0178	Surge Status	No Test Performed
Coil 3 (Ohms)	0.0181 Corr: 0.0177	Peak Volt(V) L1	0
Megohm Status	OVER CURRENT	Peak Volt(V) L2	0
Volts (V)	130	Peak Volt(V) L3	0
I(µA)	100.20	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	1	EAR 1-2/2-3/3-1(%)	No Test

EO-01161	Condition Code	Caution

Insulation resistance is below IEEE 43 recommended minimum. Leakage current is significant.

Energize motor heaters, retest prior to starting. Ensure significant increase in insulation resistance value prior to starting.

Nameplate Information		Motor ID 01161	
Location	2 Fibers	Legacy #	402005074
Model		Manufacturer	SIEMENS
Serial Number		HP/KW	400
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating	92.5	Amps-Operating	0
Insulation		Enclosure	
RPM	1200	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, D1 THICK STOCK PUMP		

Results Summary		Test Date/Time 10/2/2012 10:15:34 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005074
Temp Status	Tested	PI Status	No Test Performed
Temp	27.0°C 80.6°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	0.347 Corr: 0.344	PI Ratio	0.0
L2-L3 (Ohms)	0.347 Corr: 0.344	HiPot	No Test Performed
L3-L1 (Ohms)	0.347 Corr: 0.344	Volts (V)	0
Max Delta R %	0.005	I(µA)	0
Coil 1 (Ohms)	0.173 Corr: 0.172	Resist (Mohm)	0
Coil 2 (Ohms)	0.173 Corr: 0.172	Surge Status	No Test Performed
Coil 3 (Ohms)	0.173 Corr: 0.172	Peak Volt(V) L1	0
Megohm Status	OVER CURRENT	Peak Volt(V) L2	0
Volts (V)	340	Peak Volt(V) L3	0
I(µA)	304.00	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	1	EAR 1-2/2-3/3-1(%)	No Test

EO-01168	Condition Code	Observe

Polarization index is below IEEE 43 recommended minimum.

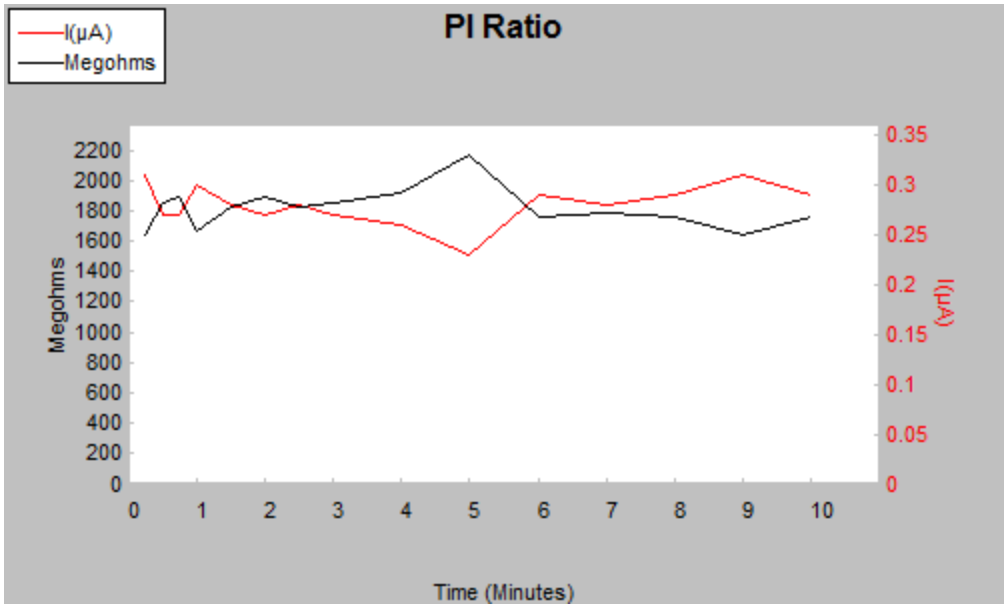
Ensure motor heaters are energized during outage. Retest at next availability and trend for condition.

Nameplate Information		Motor ID 01168	
Location	2 Paper Machine-452	Legacy #	472005103
Model		Manufacturer	SIEMENS
Serial Number	150	HP/KW	0
Volts-Rating	480	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, WARM WATER PUMP		

Results Summary		Test Date/Time 10/1/2012 11:16:11 AM	
Test ID:	IP 480V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-452	Legacy #	472005103
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	35.0°C 95.0°F	Volts (V)	500
Resist Status	**PASS**	DA Ratio	1.0
L1-L2 (Ohms)	0.0853 Corr: 0.0821	PI Ratio	1.0
L2-L3 (Ohms)	0.0854 Corr: 0.0822	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.0851 Corr: 0.0820	Volts (V)	2000
Max Delta R %	0.306	I(µA)	1.80
Coil 1 (Ohms)	0.0425 Corr: 0.0409	Resist (Mohm)	1111 At 40°C 785
Coil 2 (Ohms)	0.0428 Corr: 0.0412	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.0426 Corr: 0.0410	Peak Volt(V) L1	2020
Megohm Status	**PASS**	Peak Volt(V) L2	2020
Volts (V)	510	Peak Volt(V) L3	2020
I(µA)	0.30	Max P-P EAR(%)	1.2/1.4/1.4
Resist (Mohm)	1721 At 40°C 1216	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01168
Test Date/Time	10/1/2012 11:16:11 AM	Voltage (V)	500
DA Ratio	1.0	PI Ratio	1.0
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	0.31	1645
0:30	0.27	1851
0:45	0.27	1888
1:00	0.30	1666
1:30	0.28	1821
2:00	0.27	1888
2:30	0.28	1821
3:00	0.27	1851
4:00	0.26	1923
5:00	0.23	2173
6:00	0.29	1758
7:00	0.28	1785
8:00	0.29	1758
9:00	0.31	1645
10:00	0.29	1758



EO-01188	Condition Code	Caution

Resistive imbalance test failed

Isolate motor and retest at next availability, if condition is found to exist within motor. Recommend removal and refurbishment.

Nameplate Information		Motor ID 01188	
Location	2 Paper Machine-452	Legacy #	452005050
Model		Manufacturer	SIEMENS
Serial Number		HP/KW	0
Volts-Rating	2300	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, PULPERS DILUTION PUMP		

Results Summary		Test Date/Time 10/1/2012 11:13:24 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-452	Legacy #	452005050
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	35.0°C 95.0°F	Volts (V)	510
Resist Status	**DELTA R**	DA Ratio	6.3
L1-L2 (Ohms)	0.0155 Corr: 0.0149	PI Ratio	6.3
L2-L3 (Ohms)	0.0194 Corr: 0.0187	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.0182 Corr: 0.0175	Volts (V)	2000
Max Delta R %	22.227	I(µA)	1.80
Coil 1 (Ohms)	0.0071 Corr: 0.0069	Resist (Mohm)	1111
Coil 2 (Ohms)	0.0083 Corr: 0.0080	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.0111 Corr: 0.0107	Peak Volt(V) L1	2000
Megohm Status	**PASS**	Peak Volt(V) L2	2000
Volts (V)	510	Peak Volt(V) L3	2000
I(µA)	0.04	Max P-P EAR(%)	1.6/1.5/1.5
Resist (Mohm)	14470	EAR 1-2/2-3/3-1(%)	No Test

EO-01201	Condition Code	Alert

Insulation resistance test failed

Isolated motor and found damaged feeder cable. Motor tested OK
Recommend cable replacement immediately.

Nameplate Information		Motor ID 01201	
Location	2 Paper Machine-452	Legacy #	472005008
Model		Manufacturer	SIEMENS
Serial Number	75	HP/KW	0
Volts-Rating	460	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, QUATENARY CLEANER SUPPLY PUMP		

Results Summary		Test Date/Time 10/1/2012 2:29:11 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-452	Legacy #	472005008
Temp Status	Tested	PI Status	PASS
Temp	35.0°C 95.0°F	Volts (V)	500
Resist Status	PASS	DA Ratio	1.0
L1-L2 (Ohms)	0.0755 Corr: 0.0727	PI Ratio	DA Only
L2-L3 (Ohms)	0.0755 Corr: 0.0727	Step-Voltage	PASS
L3-L1 (Ohms)	0.0755 Corr: 0.0727	Volts (V)	2000
Max Delta R %	0.005	I(µA)	0.15
Coil 1 (Ohms)	0.0378 Corr: 0.0364	Resist (Mohm)	13429 At 40°C 9495
Coil 2 (Ohms)	0.0378 Corr: 0.0364	Surge Status	PASS
Coil 3 (Ohms)	0.0378 Corr: 0.0364	Peak Volt(V) L1	2020
Megohm Status	OVER CURRENT	Peak Volt(V) L2	2020
Volts (V)	90	Peak Volt(V) L3	2020
I(µA)	930.00	Max P-P EAR(%)	1.6/1.8/1.8
Resist (Mohm)	0	EAR 1-2/2-3/3-1(%)	No Test

EO-01299	Condition Code	Caution

Polarization index is below IEEE 43 recommended minimum, Step voltage leakage current is elevated

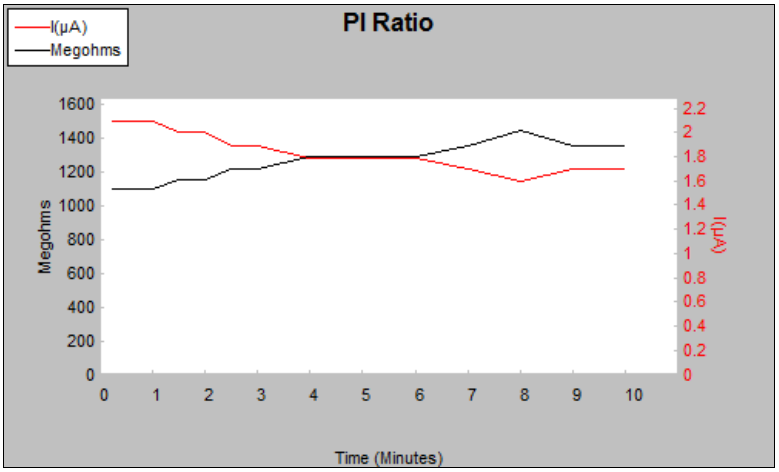
Isolated motor and retest at soonest availability.

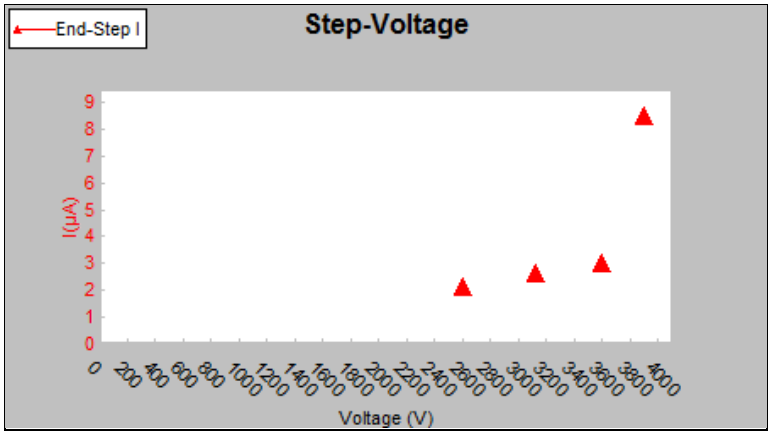
Nameplate Information		Motor ID 01299	
Location	2 Paper Machine-452	Legacy #	452005052
Model		Manufacturer	SIEMENS
Serial Number	350	HP/KW	0
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, MC STANDPIPE PUMP		

Results Summary		Test Date/Time 10/1/2012 10:29:36 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-452	Legacy #	452005052
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	35.0°C 95.0°F	Volts (V)	2300
Resist Status	**PASS**	DA Ratio	1.1
L1-L2 (Ohms)	0.238 Corr: 0.229	PI Ratio	1.2
L2-L3 (Ohms)	0.239 Corr: 0.230	**Step-Voltage**	**USER ABORT**
L3-L1 (Ohms)	0.238 Corr: 0.230	Volts (V)	3900
Max Delta R %	0.489	I(µA)	8.50
Coil 1 (Ohms)	0.119 Corr: 0.114	Resist (Mohm)	459
Coil 2 (Ohms)	0.119 Corr: 0.115	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.120 Corr: 0.115	Peak Volt(V) L1	5600
Megohm Status	**PASS**	Peak Volt(V) L2	5600
Volts (V)	2300	Peak Volt(V) L3	5600
I(µA)	2.10	Max P-P EAR(%)	3.5/3.8/4.0
Resist (Mohm)	1095 At 40°C 774	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01299
Test Date/Time	10/1/2012 10:20:59 AM	Voltage (V)	2300
DA Ratio	1.1	PI Ratio	1.2
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	2.09	1100
0:30	2.09	1100
0:45	2.09	1100
1:00	2.09	1100
1:30	2.00	1150
2:00	2.00	1150
2:30	1.89	1216
3:00	1.89	1216
4:00	1.79	1284
5:00	1.79	1284
6:00	1.79	1284
7:00	1.70	1352
8:00	1.60	1437
9:00	1.70	1352
10:00	1.70	1352





Step Length (Sec)	Volts (V)	I(µA)	Megohms
30	2600	2.10	1238
30	3120	2.60	1200
30	3600	3.00	1200
167	3900	8.50	459

EO-01827	Condition Code	Observe

Insulation resistance is below IEEE 43 recommended minimum (damaged insulation found on motor T-lead and repaired). Polarization index is below IEEE 43 recommended minimum.

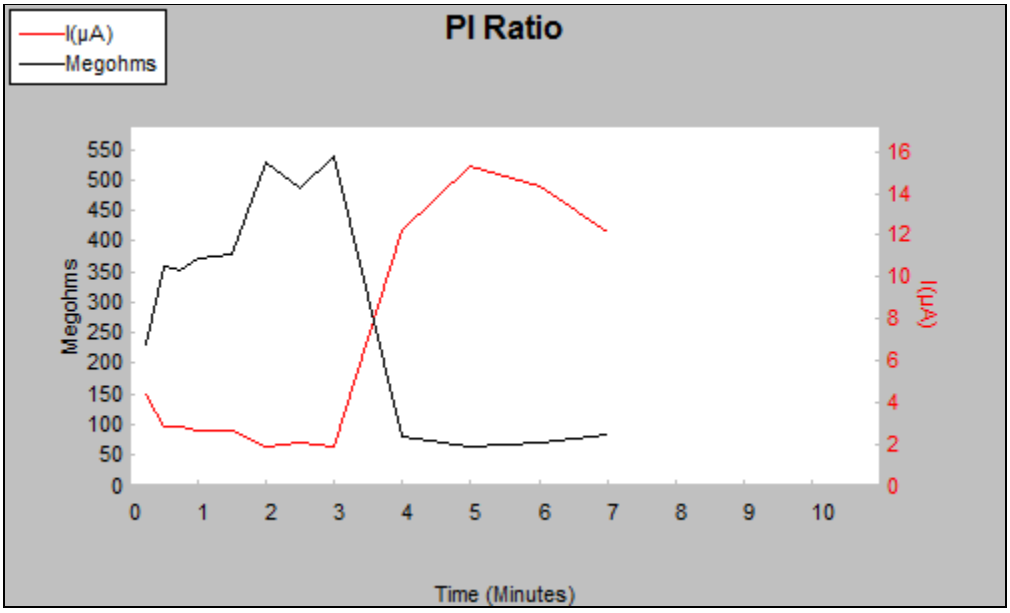
Ensure motor heaters are operational and energized during outages. Retest at next availability and trend for condition.

Nameplate Information		Motor ID 01827	
Location	2 Fibers	Legacy #	402005018
Model		Manufacturer	
Serial Number	500	HP/KW	0
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, O2 BLOW TANK PUMP		

Results Summary		Test Date/Time 10/2/2012 10:47:16 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005018
Temp Status	Tested	PI Status	OVER CURRENT
Temp	27.0°C 80.6°F	Volts (V)	950
Resist Status	PASS	DA Ratio	1.5
L1-L2 (Ohms)	0.285 Corr: 0.283	PI Ratio	0.0
L2-L3 (Ohms)	0.285 Corr: 0.283	HiPot	No Test Performed
L3-L1 (Ohms)	0.285 Corr: 0.283	Volts (V)	0
Max Delta R %	0.005	I(µA)	0
Coil 1 (Ohms)	0.143 Corr: 0.142	Resist (Mohm)	0
Coil 2 (Ohms)	0.143 Corr: 0.142	Surge Status	No Test Performed
Coil 3 (Ohms)	0.143 Corr: 0.142	Peak Volt(V) L1	0
Megohm Status	MIN MEGOHM	Peak Volt(V) L2	0
Volts (V)	2320	Peak Volt(V) L3	0
I(µA)	28.20	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	82 At 40°C 33	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01827
Test Date/Time	10/3/2012 10:26:01 AM	Voltage (V)	950
DA Ratio	1.5	PI Ratio	0.0
PI Status	OVER CURRENT		

Time (Min)	I(µA)	Megohms
0:15	4.34	230
0:30	2.81	359
0:45	2.84	352
1:00	2.68	373
1:30	2.65	377
2:00	1.89	529
2:30	2.05	487
3:00	1.85	540
4:00	12.28	81
5:00	15.28	65
6:00	14.31	69
7:00	12.16	83
8:00	0.00	0
9:00	0.00	0
10:00	0.00	0



EO-01831	Condition Code	Observe

Polarization index is below IEEE 43 recommended minimum. Surge test results reveal low level turn to turn insulation instability

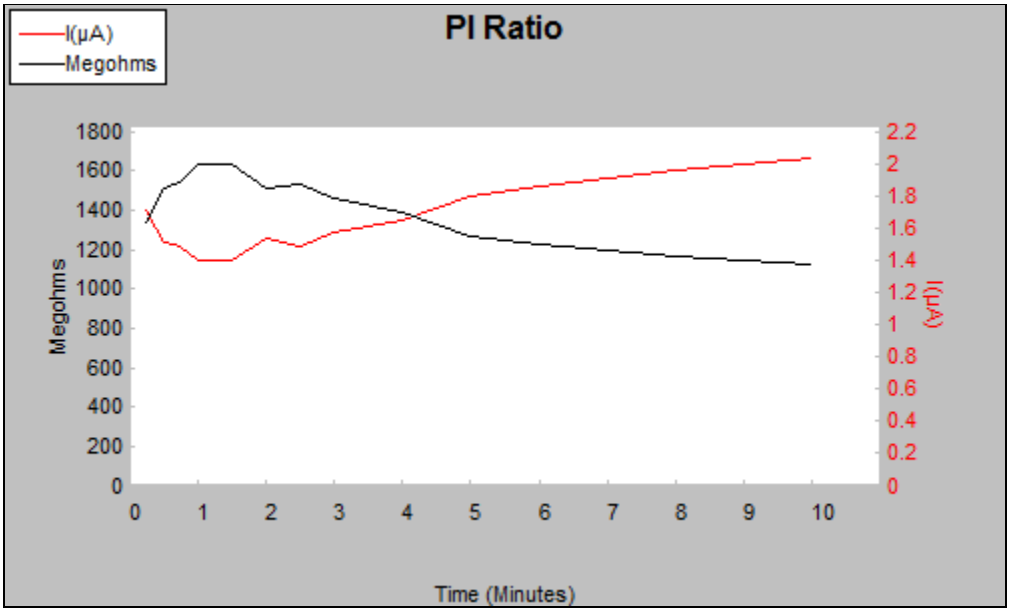
Ensure motor heaters are operational and energized during outages. Retest at next availability and trend for condition.

Nameplate Information		Motor ID 01831	
Location	2 Fibers	Legacy #	402005087
Model		Manufacturer	Seimens
Serial Number		HP/KW	500
Volts-Rating		Volts-Operating	2300
Amps-Rating		Amps-Operating	110
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	.
Manuf's Type	/	Manuf Dt Cd	
Description			

Results Summary		Test Date/Time 10/2/2012 9:54:09 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005087
Temp Status	Tested	PI Status	MIN PI
Temp	27.0°C 80.6°F	Volts (V)	2320
Resist Status	PASS	DA Ratio	1.0
L1-L2 (Ohms)	0.264 Corr: 0.262	PI Ratio	0.7
L2-L3 (Ohms)	0.264 Corr: 0.262	Step-Voltage	PASS
L3-L1 (Ohms)	0.264 Corr: 0.262	Volts (V)	5600
Max Delta R %	0.152	I(µA)	4.90
Coil 1 (Ohms)	0.132 Corr: 0.131	Resist (Mohm)	1143 At 40°C 464
Coil 2 (Ohms)	0.132 Corr: 0.131	Surge Status	PASS
Coil 3 (Ohms)	0.132 Corr: 0.131	Peak Volt(V) L1	5650
Megohm Status	PASS	Peak Volt(V) L2	5650
Volts (V)	2300	Peak Volt(V) L3	5600
I(µA)	1.60	Max P-P EAR(%)	3.0/3.3/2.8
Resist (Mohm)	1437 At 40°C 583	EAR 1-2/2-3/3-1(%)	No Test

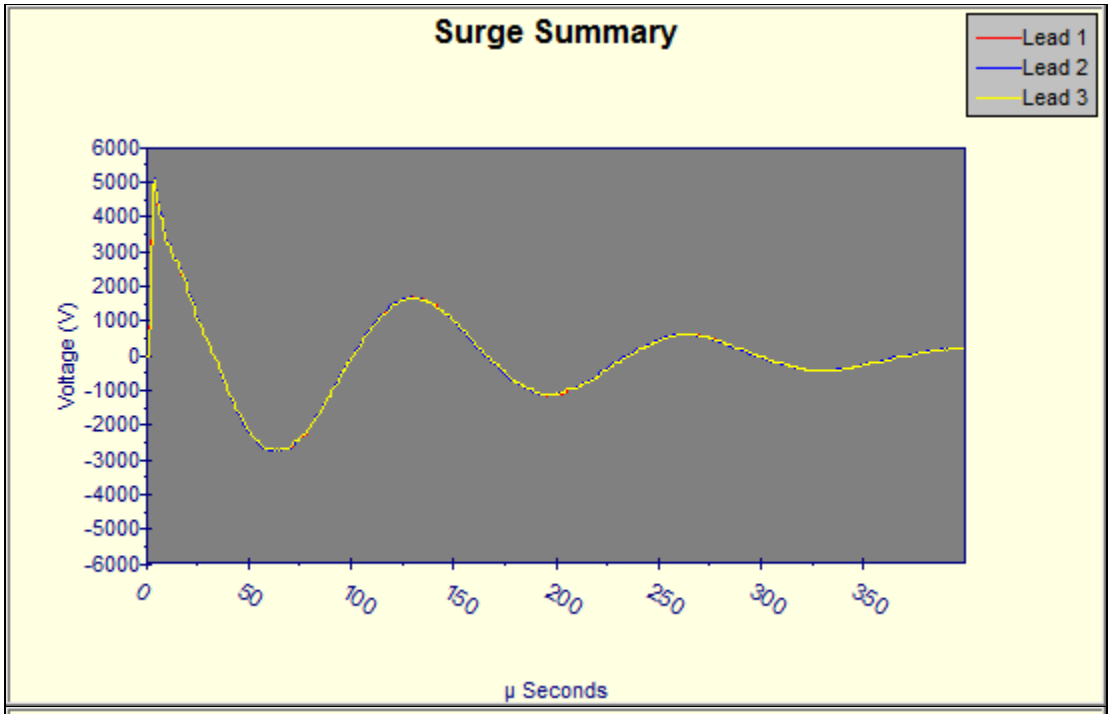
DA/PI		Motor ID	01831
Test Date/Time	10/2/2012 9:54:09 AM	Voltage (V)	2320
DA Ratio	1.0	PI Ratio	0.7
PI Status	MIN PI		

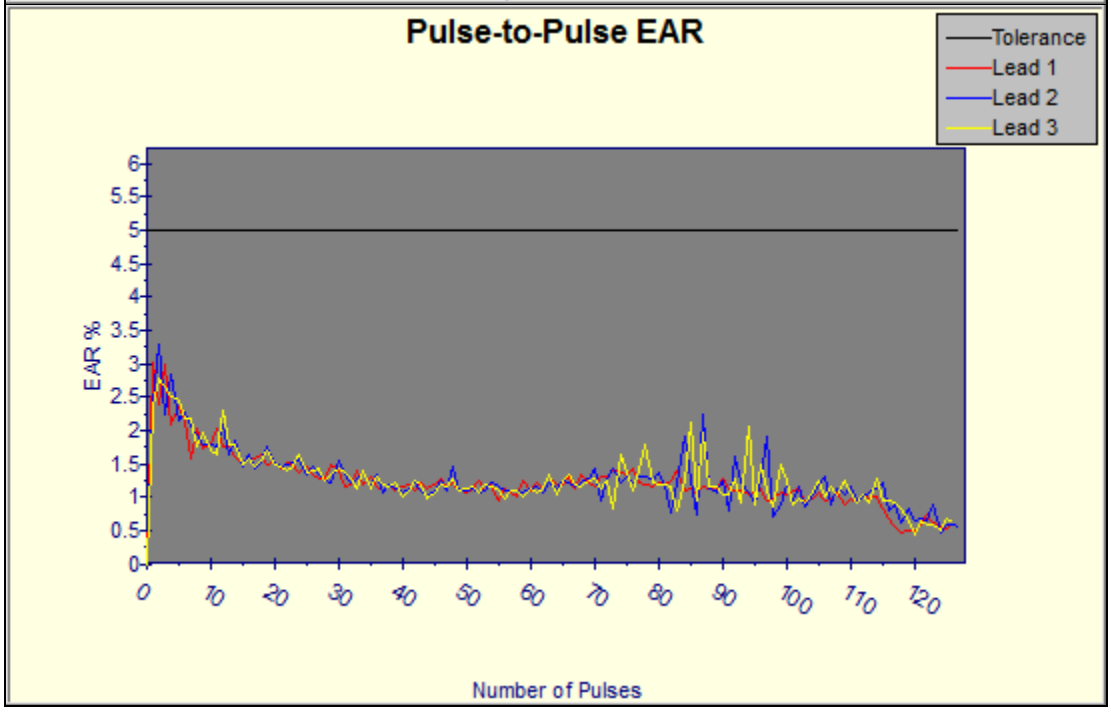
Time (Min)	I(µA)	Megohms
0:15	1.72	1337
0:30	1.52	1513
0:45	1.50	1546
1:00	1.41	1631
1:30	1.41	1631
2:00	1.54	1506
2:30	1.50	1533
3:00	1.58	1455
4:00	1.66	1385
5:00	1.81	1270
6:00	1.87	1229
7:00	1.92	1197
8:00	1.97	1167
9:00	2.01	1144
10:00	2.05	1121



Pulse-to-Pulse EAR		Motor ID 01831	
Test Date/Time	10/2/2012 9:54:09 AM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	5650	PASS	3.0
2	5650	PASS	3.3
3	5600	PASS	2.8





EO-01847	Condition Code	Severe

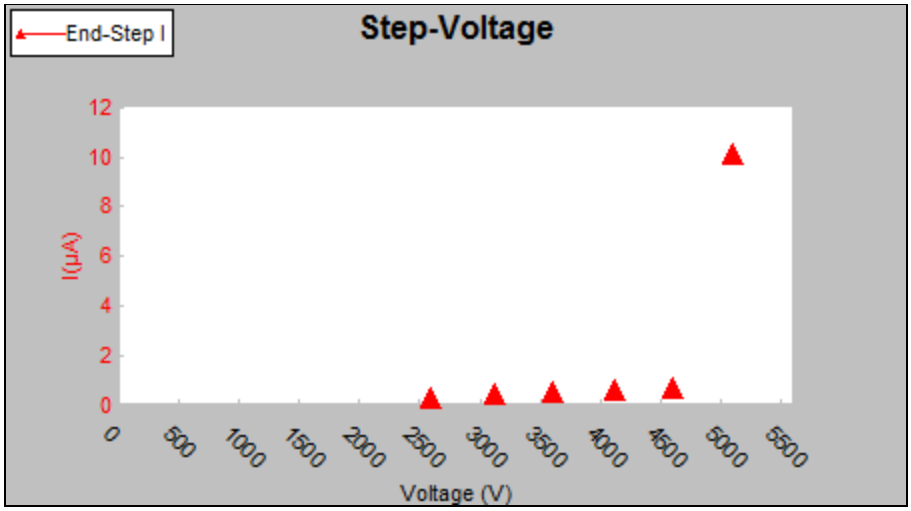
Motor insulation system failed during step voltage test.

Remove and replace motor.

Nameplate Information		Motor ID 01847	
Location	2 Fibers	Legacy #	322005051
Model		Manufacturer	
Serial Number		HP/KW	0
Volts-Rating	2300	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, SCREEN DILUTION PUMP		

Results Summary		Test Date/Time 10/2/2012 10:12:35 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	322005051
Temp Status	**Tested**	**PI Status**	**No Test Performed**
Temp	27.0°C 80.6°F	Volts (V)	0
Resist Status	**PASS**	DA Ratio	0.0
L1-L2 (Ohms)	0.185 Corr: 0.183	PI Ratio	0.0
L2-L3 (Ohms)	0.184 Corr: 0.183	**Step-Voltage**	**OVER CURRENT**
L3-L1 (Ohms)	0.184 Corr: 0.182	Volts (V)	5100
Max Delta R %	0.423	I(µA)	10.10
Coil 1 (Ohms)	0.092 Corr: 0.091	Resist (Mohm)	505 At 40°C 205
Coil 2 (Ohms)	0.093 Corr: 0.092	**Surge Status**	**No Test Performed**
Coil 3 (Ohms)	0.092 Corr: 0.091	Peak Volt(V) L1	0
Megohm Status	**PASS**	Peak Volt(V) L2	0
Volts (V)	1000	Peak Volt(V) L3	0
I(µA)	0.26	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	8985 At 40°C 3649	EAR 1-2/2-3/3-1(%)	No Test

Step-Voltage	Motor ID 01847
Test Date/Time	10/2/2012 9:06:50 AM
DC Status	OVER CURRENT



Step Length (Sec)	Volts (V)	I(µA)	Megohms	IR@40C
30	2600	0.30	8690	3529
30	3120	0.45	6991	2839
30	3600	0.50	7200	2924
30	4120	0.60	6867	2788
30	4600	0.70	6571	2668
5	5100	10.10	505	205

EO-01848	Condition Code	Observe

Surge test results reveal low level instability of turn to turn insulation.

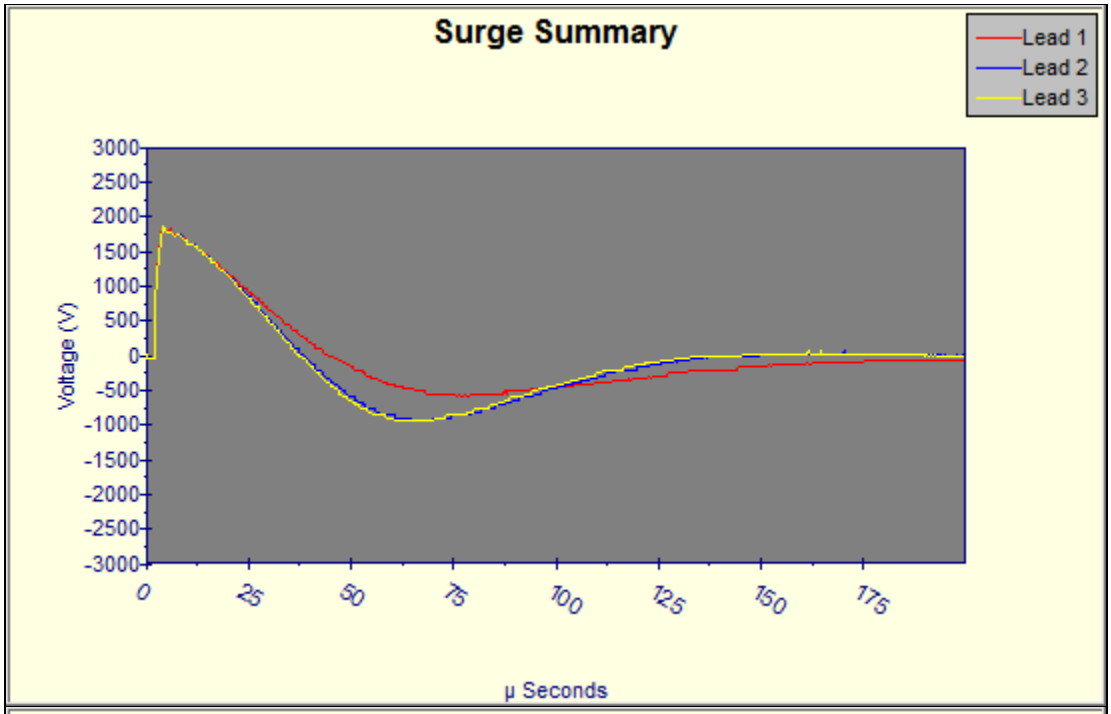
Retest at next availability and trend for condition.

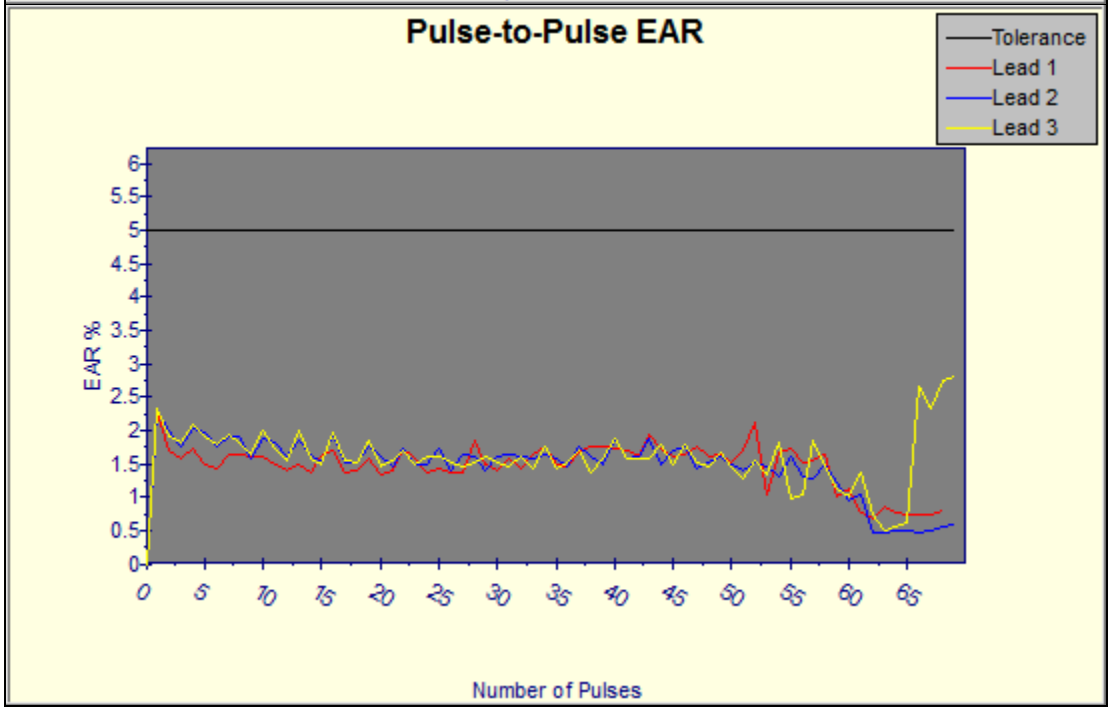
Nameplate Information		Motor ID 01848	
Location	2 Fibers	Legacy #	322005004
Model		Manufacturer	
Serial Number	50	HP/KW	0
Volts-Rating	480	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1185	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, #2 HARDWOOD BLOW TANK AGITATOR		

Results Summary		Test Date/Time 10/2/2012 1:39:09 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	322005004
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	27.0°C 80.6°F	Volts (V)	510
Resist Status	**PASS**	DA Ratio	1.8
L1-L2 (Ohms)	0.223 Corr: 0.221	PI Ratio	DA Only
L2-L3 (Ohms)	0.223 Corr: 0.221	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.223 Corr: 0.221	Volts (V)	2000
Max Delta R %	0.178	I(µA)	0.28
Coil 1 (Ohms)	0.112 Corr: 0.111	Resist (Mohm)	7222 At 40°C 2933
Coil 2 (Ohms)	0.111 Corr: 0.110	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.111 Corr: 0.110	Peak Volt(V) L1	2040
Megohm Status	**PASS**	Peak Volt(V) L2	2000
Volts (V)	510	Peak Volt(V) L3	2000
I(µA)	0.06	Max P-P EAR(%)	2.3/2.3/2.8
Resist (Mohm)	8478 At 40°C 3443	EAR 1-2/2-3/3-1(%)	No Test

Pulse-to-Pulse EAR		Motor ID 01848	
Test Date/Time	10/2/2012 1:39:09 PM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	2040	PASS	2.3
2	2000	PASS	2.3
3	2000	PASS	2.8





EO-01863	Condition Code	Severe

Initial insulation resistance test below IEEE 43 recommended minimum. Discovered damaged insulation at motor T lead, repaired in place. Retested OK. Polarization index is below IEEE 43 recommended minimum.

Ensure motor heaters are operational and energized during outage. Retest at next availability and trend for condition.

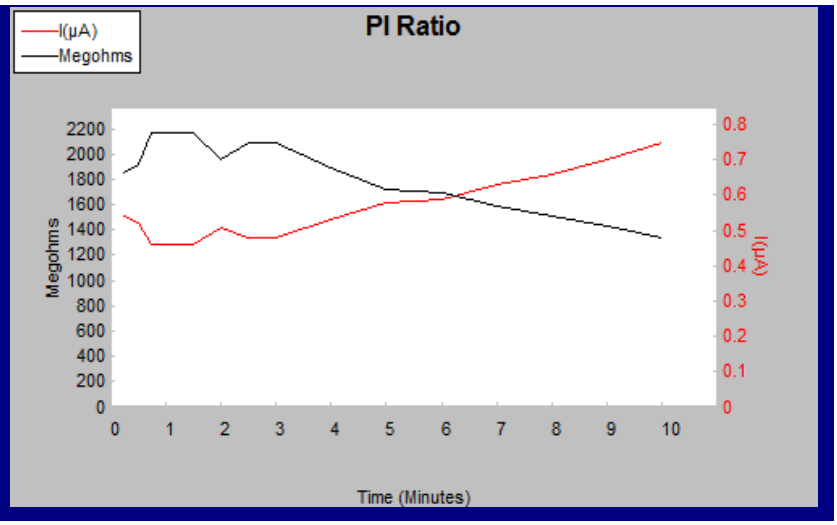
Nameplate Information		Motor ID 01863	
Location	2 Fibers	Legacy #	312005018
Model		Manufacturer	Seimens
Serial Number		HP/KW	500
Volts-Rating		Volts-Operating	2300
Amps-Rating		Amps-Operating	110
Insulation		Enclosure	
RPM	1785	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	.
Manuf's Type		Manuf Dt Cd	
Description	MAKE UP LIQUOR PUMP		

Results Summary		Test Date/Time 10/2/2012 6:37:53 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	312005018
Memo	Recommend isolating motor & retesting		
Temp Status	**Tested**	**PI Status**	**No Test Performed**
Temp	27.0°C 80.6°F	Volts (V)	0
Resist Status	**PASS**	DA Ratio	0.0
L1-L2 (Ohms)	0.278 Corr: 0.276	PI Ratio	0.0
L2-L3 (Ohms)	0.278 Corr: 0.276	**HiPot**	**No Test Performed**
L3-L1 (Ohms)	0.278 Corr: 0.276	Volts (V)	0
Max Delta R %	0.143	I(µA)	0
Coil 1 (Ohms)	0.139 Corr: 0.138	Resist (Mohm)	0
Coil 2 (Ohms)	0.139 Corr: 0.138	**Surge Status**	**No Test Performed**
Coil 3 (Ohms)	0.139 Corr: 0.138	Peak Volt(V) L1	0
Megohm Status	**MIN MEGOHM**	Peak Volt(V) L2	0
Volts (V)	2320	Peak Volt(V) L3	0
I(µA)	26.60	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	87 At 40°C 35	EAR 1-2/2-3/3-1(%)	No Test

Results Summary		Test Date/Time 10/3/2012 2:19:42 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	312005018
Memo	Found damaged insulation on motor leads. Repaired inplace. Retested, PI failed. Moisture contamination is evident in PI graph.		
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	30.0°C 86.0°F	Volts (V)	1000
Resist Status	**PASS**	DA Ratio	1.1
L1-L2 (Ohms)	0.278 Corr: 0.272	PI Ratio	0.6
L2-L3 (Ohms)	0.277 Corr: 0.272	**HiPot**	**No Test Performed**
L3-L1 (Ohms)	0.278 Corr: 0.273	Volts (V)	0
Max Delta R %	0.284	I(µA)	0
Coil 1 (Ohms)	0.139 Corr: 0.137	Resist (Mohm)	0
Coil 2 (Ohms)	0.138 Corr: 0.136	**Surge Status**	**No Test Performed**
Coil 3 (Ohms)	0.139 Corr: 0.136	Peak Volt(V) L1	0
Megohm Status	**PASS**	Peak Volt(V) L2	0
Volts (V)	1000	Peak Volt(V) L3	0
I(µA)	0.50	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	2007 At 40°C 1003	EAR 1-2/2-3/3-1(%)	No Test

DA/PI		Motor ID	01863
Test Date/Time	10/3/2012 2:19:42 PM	Voltage (V)	1000
DA Ratio	1.1	PI Ratio	0.6
PI Status	MIN PI		

Time (Min)	I(µA)	Megohms
0:15	0.54	1851
0:30	0.52	1923
0:45	0.46	2173
1:00	0.46	2173
1:30	0.46	2173
2:00	0.51	1960
2:30	0.48	2083
3:00	0.48	2083
4:00	0.53	1886
5:00	0.58	1724
6:00	0.59	1694
7:00	0.63	1587
8:00	0.66	1515
9:00	0.70	1428
10:00	0.75	1333



EO-01878	Condition Code	Severe

Initial insulation resistance failed. Motor internal heaters are not functioning.

Remove and refurbish motor at soonest availability

Nameplate Information		Motor ID 01878	
Location	2 Fibers	Legacy #	402005032
Model		Manufacturer	
Serial Number		HP/KW	400
Volts-Rating		Volts-Operating	2300
Amps-Rating		Amps-Operating	92.5
Insulation		Enclosure	
RPM	1185	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	.
Manuf's Type		Manuf Dt Cd	
Description	#2 O2 Washer Feed Pump		

Results Summary		Test Date/Time 10/2/2012 10:56:38 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005032
Temp Status	Tested	PI Status	No Test Performed
Temp	27.0°C 80.6°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	0.362 Corr: 0.359	PI Ratio	0.0
L2-L3 (Ohms)	0.362 Corr: 0.359	HiPot	No Test Performed
L3-L1 (Ohms)	0.362 Corr: 0.359	Volts (V)	0
Max Delta R %	0.005	I(µA)	0
Coil 1 (Ohms)	0.181 Corr: 0.180	Resist (Mohm)	0
Coil 2 (Ohms)	0.181 Corr: 0.180	Surge Status	No Test Performed
Coil 3 (Ohms)	0.181 Corr: 0.180	Peak Volt(V) L1	0
Megohm Status	OVER CURRENT	Peak Volt(V) L2	0
Volts (V)	90	Peak Volt(V) L3	0
I(µA)	816.50	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	0	EAR 1-2/2-3/3-1(%)	No Test

EO-01902	Condition Code	Severe

Failed resistive imbalance test. Motor isolated and condition

Remove and replace motor at soonest availability

Nameplate Information		Motor ID 01902	
Location	2 Fibers	Legacy #	402005223
Model		Manufacturer	
Serial Number	30	HP/KW	0
Volts-Rating	480	Volts-Operating	480
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	60
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, CONVEYOR, #2 O2 WSHR DILUTION		

Results Summary		Test Date/Time 10/2/2012 4:07:14 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005223
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	28.0°C 82.4°F	Volts (V)	500
Resist Status	**DELTA R**	DA Ratio	4.0
L1-L2 (Ohms)	0.430 Corr: 0.425	PI Ratio	DA Only
L2-L3 (Ohms)	0.453 Corr: 0.448	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.463 Corr: 0.458	Volts (V)	2000
Max Delta R %	7.424	I(µA)	0.09
Coil 1 (Ohms)	0.220 Corr: 0.217	Resist (Mohm)	23438 At 40°C 10201
Coil 2 (Ohms)	0.210 Corr: 0.207	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.243 Corr: 0.240	Peak Volt(V) L1	2020
Megohm Status	**PASS**	Peak Volt(V) L2	2020
Volts (V)	500	Peak Volt(V) L3	2020
I(µA)	0.03	Max P-P EAR(%)	1.9/1.9/2.0
Resist (Mohm)	17969 At 40°C 7821	EAR 1-2/2-3/3-1(%)	No Test

EO-01911	Condition Code	Caution

Resistive imbalance is above MEMA MG-1 recommendation

Isolate motor and re-evaluate. Remove and replace based upon re-evaluation

Nameplate Information		Motor ID 01911	
Location	2 Fibers	Legacy #	402005110
Model		Manufacturer	
Serial Number	15	HP/KW	0
Volts-Rating	480	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, SCRUBBER CIRCULATION PUMP		

Results Summary		Test Date/Time 10/2/2012 3:52:07 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005110
Temp Status	Tested	PI Status	No Test Performed
Temp	29.0°C 84.2°F	Volts (V)	0
Resist Status	DELTA R	DA Ratio	0.0
L1-L2 (Ohms)	1.486 Corr: 1.463	PI Ratio	DA Only
L2-L3 (Ohms)	1.561 Corr: 1.537	HiPot	No Test Performed
L3-L1 (Ohms)	1.584 Corr: 1.559	Volts (V)	0
Max Delta R %	6.338	I(µA)	0
Coil 1 (Ohms)	0.754 Corr: 0.743	Resist (Mohm)	0
Coil 2 (Ohms)	0.731 Corr: 0.720	Surge Status	No Test Performed
Coil 3 (Ohms)	0.829 Corr: 0.817	Peak Volt(V) L1	0
Megohm Status	No Test Performed	Peak Volt(V) L2	0
Volts (V)	0	Peak Volt(V) L3	0
I(µA)	0	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	0	EAR 1-2/2-3/3-1(%)	No Test

EO-02602	Condition Code	Severe

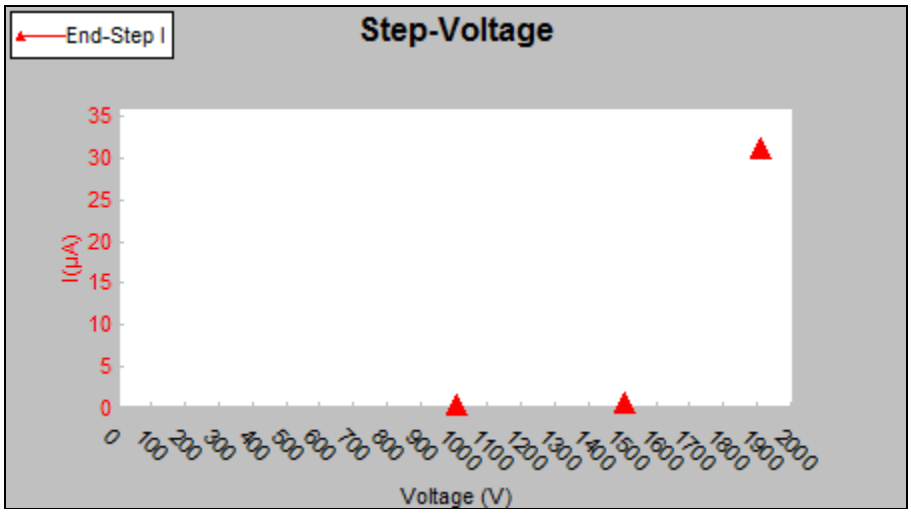
Step voltage leakage current is excessive, surge test reveals turn to turn short in motor windings. Motor failure is imminent.

Remove and refurbish motor.

Nameplate Information		Motor ID 02602	
Location	2 Utilities-LK-Feed End	Legacy #	372005010
Model		Manufacturer	
Serial Number		HP/KW	350
Volts-Rating		Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1185	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, #2 PRECOAT FILTER VACUUM PUMP		

Results Summary		Test Date/Time 10/4/2012 11:13:02 AM	
Test ID:	IP 480V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-LK-Feed End	Legacy #	372005010
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	22.0°C 71.6°F	Volts (V)	510
Resist Status	**PASS**	DA Ratio	1.6
L1-L2 (Ohms)	0.0128 Corr: 0.0129	PI Ratio	DA Only
L2-L3 (Ohms)	0.0126 Corr: 0.0128	**Step-Voltage**	**OVER CURRENT**
L3-L1 (Ohms)	0.0127 Corr: 0.0128	Volts (V)	1910
Max Delta R %	1.014	I(µA)	31.20
Coil 1 (Ohms)	0.0064 Corr: 0.0065	Resist (Mohm)	61 At 40°C 17
Coil 2 (Ohms)	0.0064 Corr: 0.0064	**Surge Status**	**ppEAR LIMIT**
Coil 3 (Ohms)	0.0063 Corr: 0.0064	Peak Volt(V) L1	2020
Megohm Status	**PASS**	Peak Volt(V) L2	2020
Volts (V)	510	Peak Volt(V) L3	1920 Failed
I(µA)	0.08	Max P-P EAR(%)	1.5/1.4/59.7
Resist (Mohm)	6636 At 40°C 1905	EAR 1-2/2-3/3-1(%)	No Test

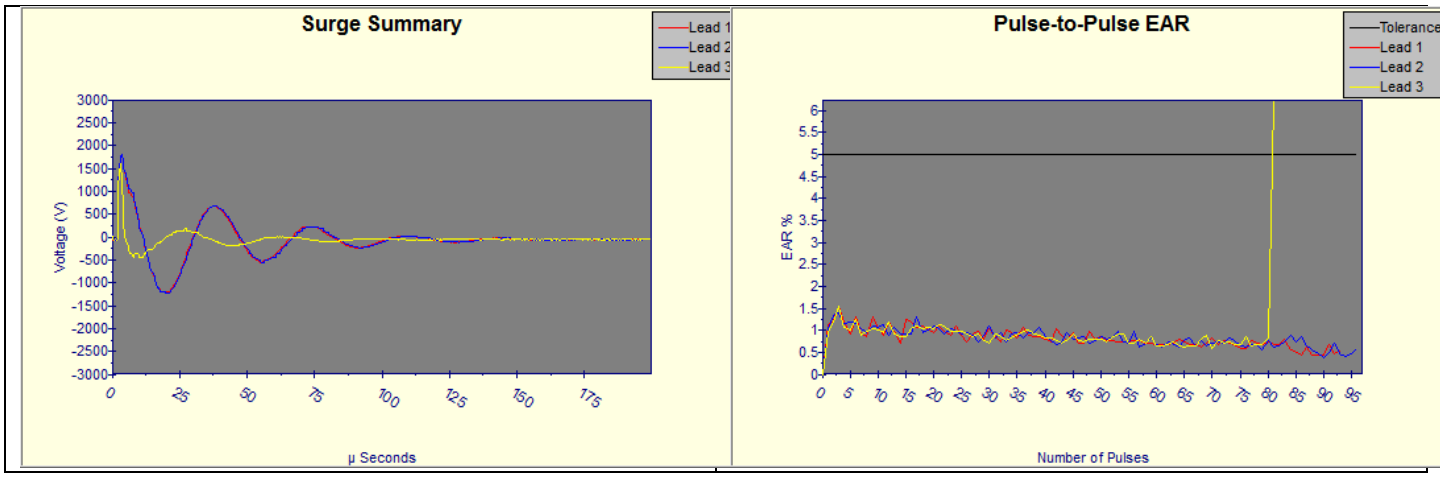
Step-Voltage	Motor ID 02602
Test Date/Time	10/4/2012 11:13:02 AM
DC Status	OVER CURRENT



Step Length (Sec)	Volts (V)	I(µA)	Megohms	IR@40C
30	1010	0.45	2258	648
30	1510	0.70	2157	619
7.2	1910	31.20	61	17

Pulse-to-Pulse EAR		Motor ID 02602	
Test Date/Time	10/4/2012 11:17:32 AM	Surge Status	ppEAR LIMIT

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	2020	PASS	1.5
2	2020	PASS	1.4
3	1920	FAIL	59.7



EO-02611	Condition Code	Observe

Surge test results reveal low level instability of turn to turn insulation.

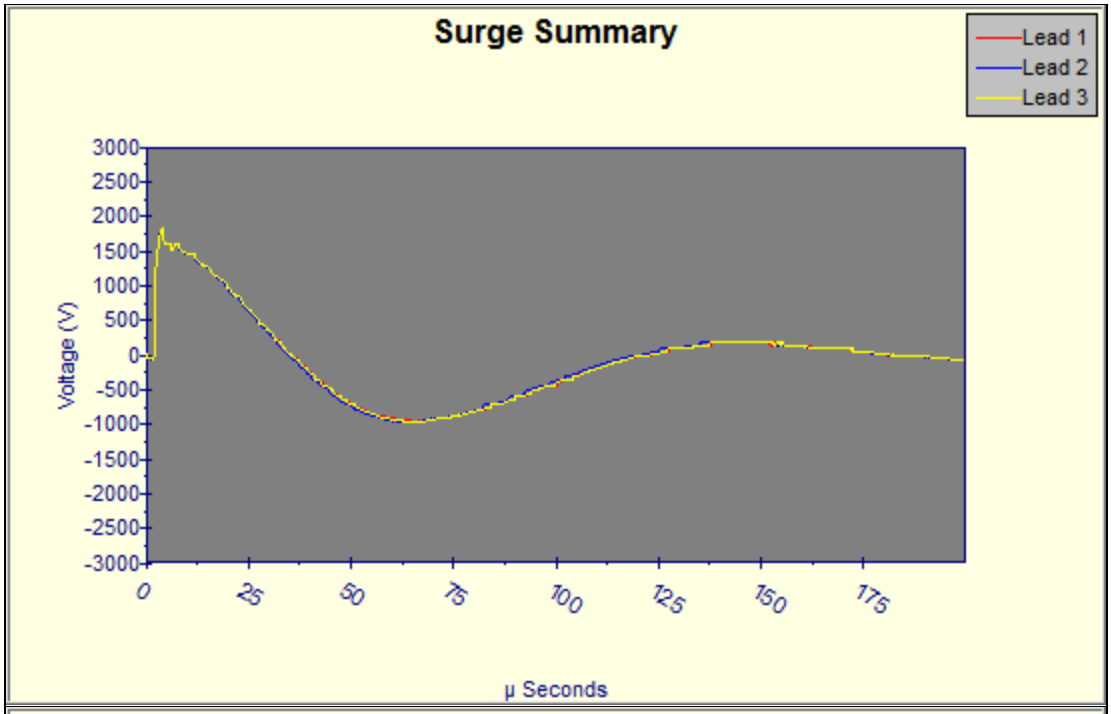
Retest at next availability and trend for condition.

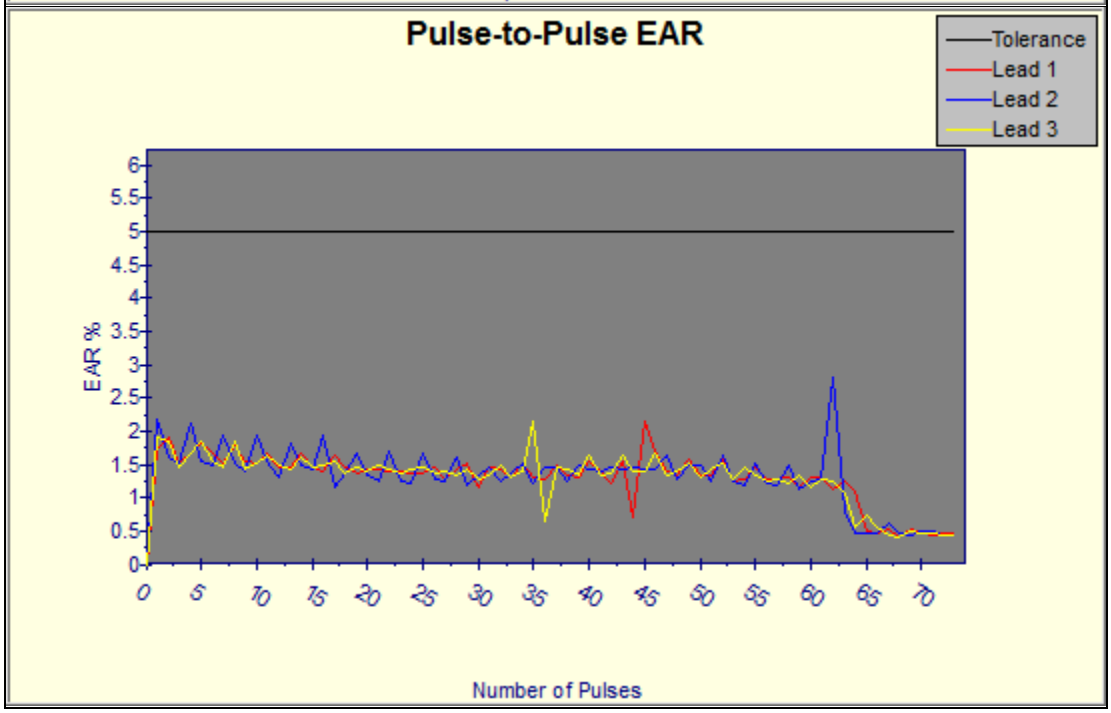
Nameplate Information		Motor ID 02611	
Location	2 Utilities-LK-Feed End	Legacy #	361005010
Model		Manufacturer	
Serial Number		HP/KW	40
Volts-Rating	460	Volts-Operating	460
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1750	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, #2-3 CAUSTICIZER AGITATOR		

Results Summary		Test Date/Time 10/4/2012 9:05:06 AM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-LK-Feed End	Legacy #	361005010
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	22.0°C 71.6°F	Volts (V)	500
Resist Status	**PASS**	DA Ratio	2.0
L1-L2 (Ohms)	0.280 Corr: 0.283	PI Ratio	DA Only
L2-L3 (Ohms)	0.281 Corr: 0.285	**Step-Voltage**	**PASS**
L3-L1 (Ohms)	0.279 Corr: 0.282	Volts (V)	2000
Max Delta R %	0.973	I(µA)	0.07
Coil 1 (Ohms)	0.138 Corr: 0.140	Resist (Mohm)	28267 At 40°C 8117
Coil 2 (Ohms)	0.141 Corr: 0.143	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.140 Corr: 0.142	Peak Volt(V) L1	2020
Megohm Status	**PASS**	Peak Volt(V) L2	2020
Volts (V)	500	Peak Volt(V) L3	2020
I(µA)	0.02	Max P-P EAR(%)	2.1/2.8/2.2
Resist (Mohm)	27345 At 40°C 7852	EAR 1-2/2-3/3-1(%)	No Test

Pulse-to-Pulse EAR			Motor ID 02611
Test Date/Time	10/4/2012 9:05:06 AM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	2020	PASS	2.1
2	2020	PASS	2.8
3	2020	PASS	2.2





322005010	Condition Code	Caution

Failed insulation resistance test.

Isolate motor and retest.

Nameplate Information		Motor ID 322005010	
Location	2 Fibers	Legacy #	322005010
Model		Manufacturer	
Serial Number	5	HP/KW	0
Volts-Rating	480	Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, #1 KNOT DRAINER		

Results Summary		Test Date/Time 10/2/2012 1:52:41 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	322005010
Temp Status	Tested	PI Status	No Test Performed
Temp	27.0°C 80.6°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	3.504 Corr: 3.478	PI Ratio	DA Only
L2-L3 (Ohms)	3.499 Corr: 3.472	HiPot	No Test Performed
L3-L1 (Ohms)	3.493 Corr: 3.466	Volts (V)	0
Max Delta R %	0.330	I(µA)	0
Coil 1 (Ohms)	1.749 Corr: 1.736	Resist (Mohm)	0
Coil 2 (Ohms)	1.755 Corr: 1.742	Surge Status	No Test Performed
Coil 3 (Ohms)	1.744 Corr: 1.730	Peak Volt(V) L1	0
Megohm Status	OVER CURRENT	Peak Volt(V) L2	0
Volts (V)	0	Peak Volt(V) L3	0
I(µA)	99.80	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	0	EAR 1-2/2-3/3-1(%)	No Test

4020005036	Condition Code	Caution

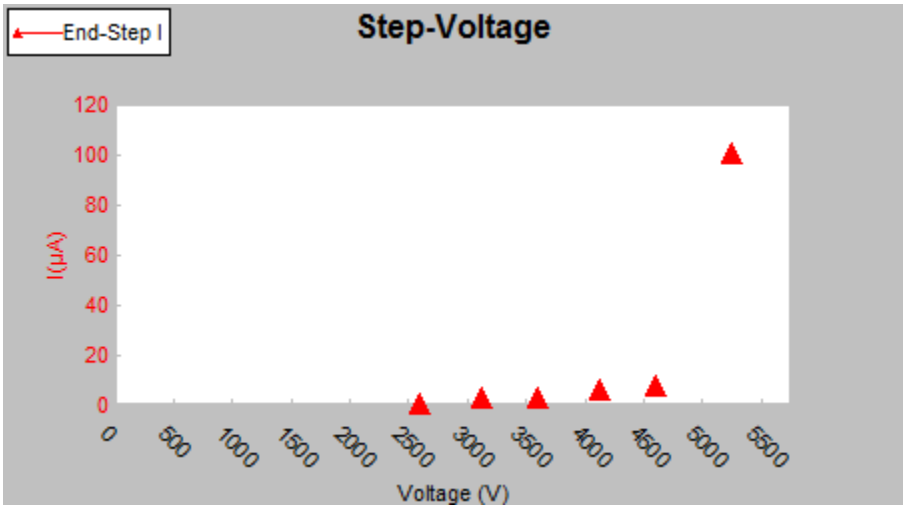
Step voltage test leakage current is excessive.

Retest at next availability and trend for condition. Ensure spare replacement is available.

Nameplate Information		Motor ID 402005036	
Location	2 Fibers	Legacy #	402005036
Model		Manufacturer	Seimens
Serial Number		HP/KW	400
Volts-Rating		Volts-Operating	2300
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	1800	Service Factor	0
Frame		Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	.
Manuf's Type		Manuf Dt Cd	
Description			

Results Summary		Test Date/Time 10/2/2012 12:41:04 PM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Fibers	Legacy #	402005036
Temp Status	**Tested**	**PI Status**	**PASS**
Temp	27.0°C 80.6°F	Volts (V)	2300
Resist Status	**PASS**	DA Ratio	2.2
L1-L2 (Ohms)	0.388 Corr: 0.385	PI Ratio	DA Only
L2-L3 (Ohms)	0.388 Corr: 0.385	**Step-Voltage**	**OVER CURRENT**
L3-L1 (Ohms)	0.388 Corr: 0.385	Volts (V)	5250
Max Delta R %	0.105	I(µA)	100.20
Coil 1 (Ohms)	0.194 Corr: 0.193	Resist (Mohm)	52 At 40°C 21
Coil 2 (Ohms)	0.194 Corr: 0.192	**Surge Status**	**PASS**
Coil 3 (Ohms)	0.194 Corr: 0.192	Peak Volt(V) L1	5600
Megohm Status	**PASS**	Peak Volt(V) L2	5650
Volts (V)	2300	Peak Volt(V) L3	5600
I(µA)	0.31	Max P-P EAR(%)	2.8/3.0/3.1
Resist (Mohm)	7362 At 40°C 2989	EAR 1-2/2-3/3-1(%)	No Test

Step-Voltage	Motor ID 402005036
Test Date/Time	10/2/2012 12:41:04 PM
DC Status	OVER CURRENT



Step Length (Sec)	Volts (V)	I(µA)	Megohms	IR@40C
30	2600	0.34	7623	3095
30	3120	3.20	975	395
30	3600	3.20	1125	456
30	4120	6.10	675	274
30	4600	7.80	590	239
20.9	5250	100.20	52	21

452005125	Condition Code	Observe

Polarization index is below IEEE 43 recommended minimum. Surge test results reveal low level instability of turn to turn insulation .

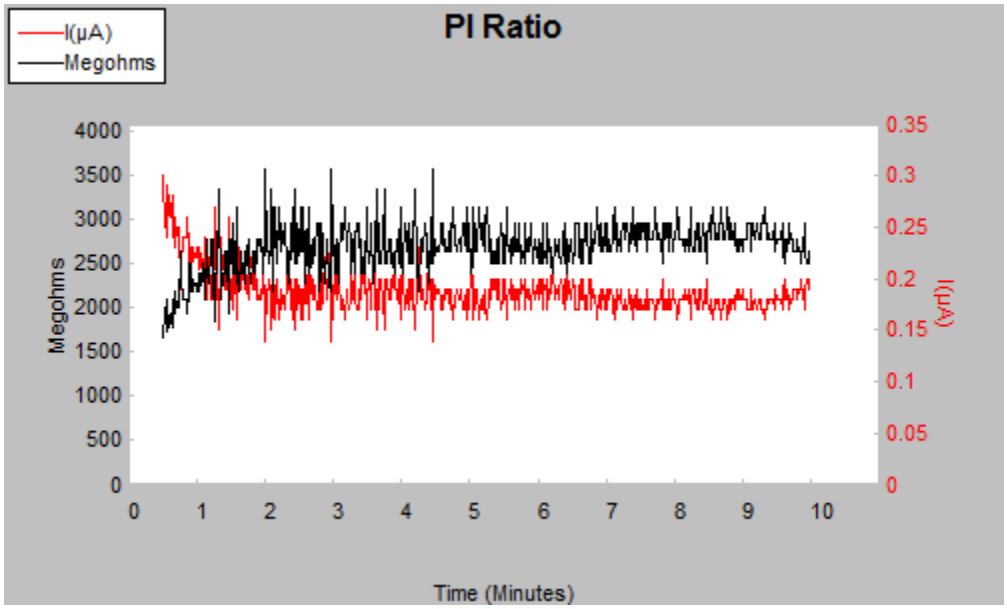
Ensure motor heaters are operational and energized during outages. Retest at next availability and trend for condition.

Nameplate Information		Motor ID 452005125	
Location	2 Paper Machine-452	Legacy #	452005125
Model		Manufacturer	
Serial Number		HP/KW	0
Volts-Rating		Volts-Operating	-9.123e+019
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Frame		Freq-Hz	1246576928
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type		Manuf Dt Cd	
Description	MOTOR, H D SWING TOWER AGITATOR		

Results Summary		Test Date/Time 10/1/2012 1:26:06 PM	
Test ID:	IP 480V w/Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-452	Legacy #	452005125
Temp Status	**Tested**	**PI Status**	**MIN PI**
Temp	30.0°C 86.0°F	Volts (V)	500
		DA Ratio	1.3
		PI Ratio	1.2
Resist Status	**PASS**	**Step-Voltage**	**PASS**
L1-L2 (Ohms)	0.0724 Corr: 0.0710	Volts (V)	2000
L2-L3 (Ohms)	0.0724 Corr: 0.0710	I(µA)	1.30
L3-L1 (Ohms)	0.0725 Corr: 0.0712	Resist (Mohm)	1538 At 40°C 769
Max Delta R %	0.241	**Surge Status**	**PASS**
Coil 1 (Ohms)	0.0363 Corr: 0.0356	Peak Volt(V) L1	2020
Coil 2 (Ohms)	0.0361 Corr: 0.0354	Peak Volt(V) L2	2040
Coil 3 (Ohms)	0.0362 Corr: 0.0356	Peak Volt(V) L3	2020
Megohm Status	**PASS**	Max P-P EAR(%)	1.5/4.3/1.7
Volts (V)	510	EAR 1-2/2-3/3-1(%)	No Test
I(µA)	0.23		
Resist (Mohm)	2175 At 40°C 1087		

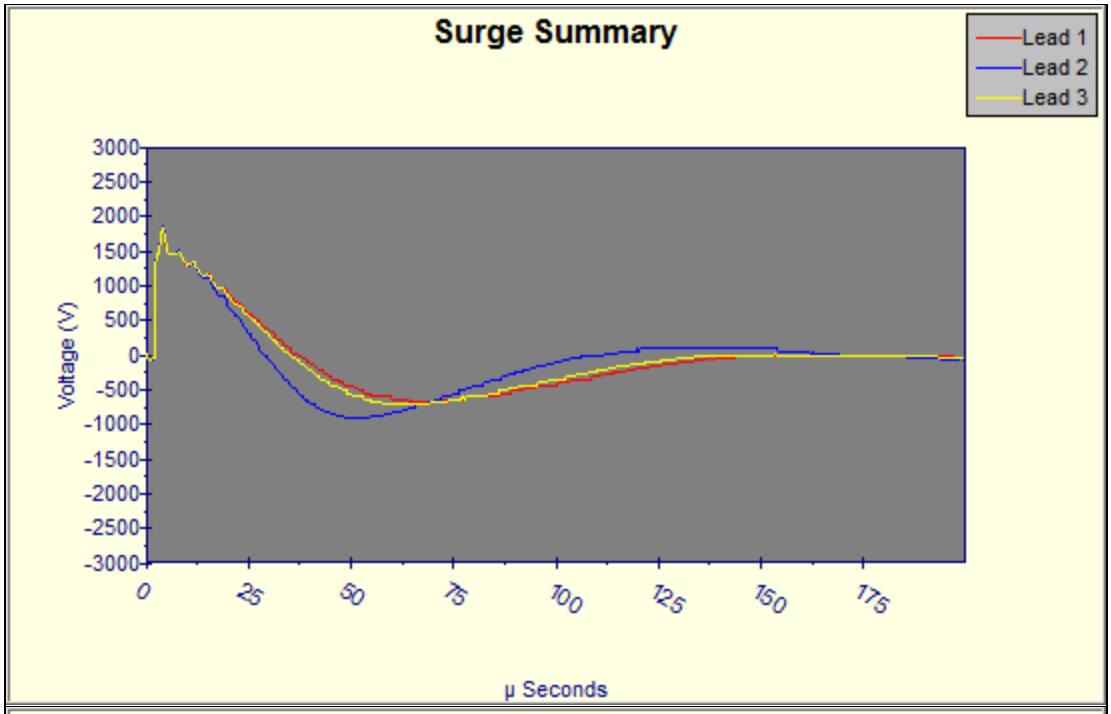
DA/PI		Motor ID 452005125	
Test Date/Time	10/1/2012 1:26:06 PM	Voltage (V)	500
DA Ratio	1.3	PI Ratio	1.2
PI Status	MIN PI		

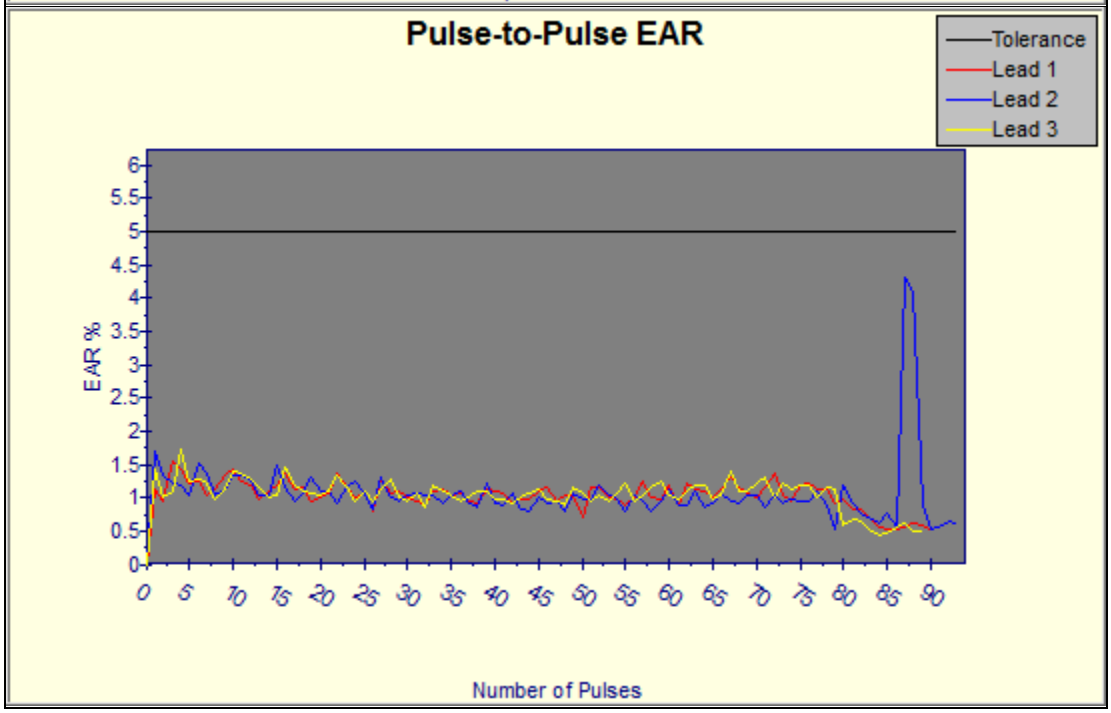
Time (Min)	I(µA)	Megohms
0:15	0.35	1428
0:30	0.25	2000
0:45	0.20	2550
1:00	0.22	2318
1:30	0.20	2500
2:00	0.20	2500
2:30	0.18	2777
3:00	0.20	2550
4:00	0.19	2631
5:00	0.17	2941
6:00	0.19	2631
7:00	0.18	2833
8:00	0.17	2941
9:00	0.17	2941
10:00	0.19	2684



Pulse-to-Pulse EAR		Motor ID 452005125	
Test Date/Time	10/1/2012 1:26:06 PM	Surge Status	PASS

Lead	Peak Voltage (V)	PP EAR Status	Max P-P EAR(%)
1	2020	PASS	1.5
2	2040	PASS	4.3
3	2020	PASS	1.7





4720051072	Condition Code	Caution

Stator and rotor Insulation resistance is below IEEE 43 recommended minimum.

Conduct in place internal cleaning and inspection PM. Retest and trend for condition.

Nameplate Information		Motor ID 4720051072	
Location	2 Paper Machine-	Legacy #	4720051072
Model		Manufacturer	
Serial Number		HP/KW	2250
Volts-Rating	2300	Volts-Operating	2300
Amps-Rating		Amps-Operating	0
Insulation		Enclosure	
RPM	0	Service Factor	0
Description	MOTOR, WE #2 VACUUM SYSTEM		

Results Summary Stator		Test Date/Time 10/1/2012 8:05:52 AM	
Test ID:	IP 2300V w/ Rotor StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-	Legacy #	4720051072
Temp Status	Tested	PI Status	No Test Performed
Temp	35.0°C 95.0°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	0.0440 Corr: 0.0423	PI Ratio	0.0
L2-L3 (Ohms)	0.0438 Corr: 0.0422	HiPot	No Test Performed
L3-L1 (Ohms)	0.0437 Corr: 0.0421	Volts (V)	0
Max Delta R %	0.688	I(µA)	0
Coil 1 (Ohms)	0.0219 Corr: 0.0211	Resist (Mohm)	0
Coil 2 (Ohms)	0.0221 Corr: 0.0212	Surge Status	No Test Performed
Coil 3 (Ohms)	0.0218 Corr: 0.0209	Peak Volt(V) L1	0
Megohm Status	MIN MEGOHM	Peak Volt(V) L2	0
Volts (V)	2320	Peak Volt(V) L3	0
I(µA)	517.50	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	4 At 40°C 2	EAR 1-2/2-3/3-1(%)	No Test

Results Summary Rotor		Test Date/Time 10/1/2012 8:16:48 AM	
Test ID:	250V Synch Rotor	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Paper Machine-	Legacy #	4720051072
Temp Status	Tested	PI Status	No Test Performed
Temp	35.0°C 95.0°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
Bal L1 (Ohms)	2.330 Corr: 2.244	PI Ratio	0.0
Bal L2 (Ohms)	0.0 Corr: 0.0	HiPot	No Test Performed
Bal L3 (Ohms)	0.0 Corr: 0.0	Volts (V)	0
Max Delta R %	0.000	I(µA)	0
Coil 1 (Ohms)	2.330 Corr: 2.244	Resist (Mohm)	0
Coil 2 (Ohms)	0.0 Corr: 0.0	Surge Status	No Test Performed
Coil 3 (Ohms)	0.0 Corr: 0.0	Peak Volt(V) L1	0
Megohm Status	OVER CURRENT	Peak Volt(V) L2	0
Volts (V)	420	Peak Volt(V) L3	0
I(µA)	817.00	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	1	EAR 1-2/2-3/3-1(%)	--/--/--

EO-1147	Condition Code	Observe

Insulation resistance is below IEEE 43 recommended minimum.

Ensure motor heaters are operational and energized during outages. Retest at next availability and trend for condition.

Nameplate Information		Motor ID EO-1174	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005145
Model		Manufacturer	Siemens
Serial Number	F11T0047NPI-001	HP/KW	40
Volts-Rating		Volts-Operating	480
Amps-Rating		Amps-Operating	46
Insulation		Enclosure	
RPM	1780	Service Factor	0
Frame	324T	Freq-Hz	0
LR Code		LR Amps	0
NEMA Design		Max Amb °C	0
NEMA nom eff	0	Duty Cycle	
Manuf's Type	SD100	Manuf Dt Cd	
Description	Place holder MotorID. After adding valid motors, delete this one		

Results Summary		Test Date/Time 10/3/2012 2:23:50 PM	
Test ID:	IP 480V < 100 HP StepV	Repair/Job #	
Tested By		Tested For	
Room #		MCC	
Location	2 Utilities-RB-Grnd-382	Legacy #	382005145
Temp Status	Tested	PI Status	No Test Performed
Temp	30.0°C 86.0°F	Volts (V)	0
Resist Status	PASS	DA Ratio	0.0
L1-L2 (Ohms)	0.249 Corr: 0.245	PI Ratio	DA Only
L2-L3 (Ohms)	0.251 Corr: 0.246	HiPot	No Test Performed
L3-L1 (Ohms)	0.250 Corr: 0.246	Volts (V)	0
Max Delta R %	0.620	I(µA)	0
Coil 1 (Ohms)	0.124 Corr: 0.122	Resist (Mohm)	0
Coil 2 (Ohms)	0.125 Corr: 0.122	Surge Status	No Test Performed
Coil 3 (Ohms)	0.126 Corr: 0.124	Peak Volt(V) L1	0
Megohm Status	MIN MEGOHM	Peak Volt(V) L2	0
Volts (V)	510	Peak Volt(V) L3	0
I(µA)	54.80	Max P-P EAR(%)	0.0/0.0/0.0
Resist (Mohm)	9 At 40°C 4	EAR 1-2/2-3/3-1(%)	No Test