

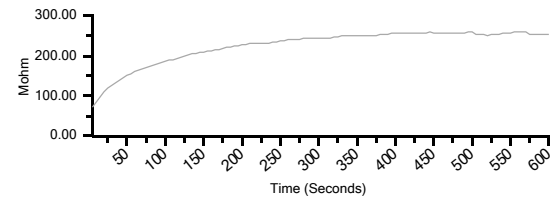
**Report Title** December 2024 4th Quarter MCE Report  
**Submitted By** Kevin Maxwell  
**Create Date** 01/02/25 7:41 AM  
**Asset Name** #1 EFFLUENT PUMP  
**Description**



**Date:** 12/23/24 10:50 AM **Dated Test Event**

|                    |   |   |   |   |
|--------------------|---|---|---|---|
| Test Date          | 03/23/21                                  | 04/03/23                                  | 03/18/24                                  | 12/23/24                                  |
| Test Time          | 1:07 PM                                   | 10:50 AM                                  | 9:31 AM                                   | 10:50 AM                                  |
| Test Location      | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side |
| User               | Administrator                             | Administrator                             | Administrator                             | Administrator                             |
| Tester Serial      | 5095                                      | 5095                                      | 5095                                      | 5095                                      |
| MTAP ID            |   |   |   |   |
|                    | Baseline                                  |   |   |   |
| Frequency          | 1200                                      | 1200                                      | 1200                                      | 1200                                      |
| Charge Time        | 600                                       | 600                                       | 600                                       | 600                                       |
| Voltage            | 1000                                      | 500                                       | 500                                       | 500                                       |
| Motor Temp °C      | 19  | 19  | 6   | 10  |
| Measured Mohm      | 6.27                                      | 1,095.10                                  | 48.10                                     | 158.02                                    |
| Corrected Mohm     | 1.50                                      | 255.00                                    | 4.60                                      | 19.80                                     |
| pF Ph 1 to Ground  | 35.100                                    | 47.300                                    | 46.400                                    | 60.200                                    |
| ohm Ph 1 to 2      | 0.0914                                    | 0.0819                                    | 0.0786                                    | 0.0787                                    |
| ohm Ph 2 to 3      | 0.0904                                    | 0.0819                                    | 0.0786                                    | 0.0788                                    |
| ohm Ph 3 to 1      | 0.0908                                    | 0.0817                                    | 0.0784                                    | 0.0785                                    |
| mH Ph 1 to 2       | 2.260                                     | 3.755                                     | 4.275                                     | 3.940                                     |
| mH Ph 2 to 3       | 2.075                                     | 4.085                                     | 3.410                                     | 3.265                                     |
| mH Ph 3 to 1       | 1.810                                     | 4.325                                     | 4.235                                     | 4.215                                     |
| Average Inductance | 2.050                                     | 4.055                                     | 3.975                                     | 3.800                                     |
| % Res. Imbalance   | 0.59                                      | 0.16                                      | 0.17                                      | 0.21                                      |
| % Ind. Imbalance   | 11.64                                     | 7.40                                      | 14.18                                     | 14.42                                     |

**Date:** 12/23/24 10:50 AM **Test:** Polarization Index Test



**Date:** 12/23/24 10:50 AM **Dated Test Event**

|               |   |   |   |   |
|---------------|---|---|---|---|
| Test Date     | 03/23/21                                  | 04/03/23                                  | 03/18/24                                  | 12/23/24                                  |
| Test Time     | 1:07 PM                                   | 10:50 AM                                  | 9:31 AM                                   | 10:50 AM                                  |
| Test Location | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side | Local Disconnect - Lcverloads - Load Side |
| User          | Administrator                             | Administrator                             | Administrator                             | Administrator                             |
| Tester Serial | 5095                                      | 5095                                      | 5095                                      | 5095                                      |
| MTAP ID       |   |   |   |   |
|               | Baseline                                  |   |   |   |
| Voltage       | 1000                                      | 500                                       | 500                                       | 500                                       |
| Duration      | 600                                       | 600                                       | 600                                       | 600                                       |
| D/A Ratio     | 1.048                                     | 1.483                                     | 0.581                                     | 1.276                                     |
| Polar. Index  | 2.207                                     | 1.301                                     | 1.426                                     | 1.594                                     |

**Remarks:** No issues to note this survey. Continue to monitor as normal.

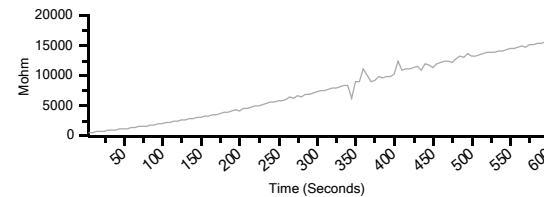
Report Title December 2024 4th Quarter MCE Report  
 Submitted By Kevin Maxwell  
 Create Date 01/02/25 7:38 AM  
 Asset Name #2 EFFLUENT PUMP  
 Description



Date: 12/23/24 10:31 AM Dated Test Event

|                    |                       |                       |                        |                     |
|--------------------|-----------------------|-----------------------|------------------------|---------------------|
| Test Date          | 04/02/22              | 04/03/23              | 03/18/24               | 12/23/24            |
| Test Time          | 8:21 AM               | 11:10 AM              | 9:04 AM                | 10:31 AM            |
| Test Location      | Overloads - Line Side | Overloads - Load Side | Disconnect - Load Side | Starter - Load Side |
| User               | Administrator         | Administrator         | Administrator          | Administrator       |
| Tester Serial      | 5095                  | 5095                  | 5095                   | 5095                |
| MTAP ID            |                       |                       |                        |                     |
|                    | Baseline              |                       |                        |                     |
| Frequency          | 1200                  | 1200                  | 1200                   | 1200                |
| Charge Time        | 600                   | 600                   | 600                    | 600                 |
| Voltage            | 1000                  | 500                   | 500                    | 500                 |
| Motor Temp °C      | 21                    | 19                    | 6                      | 10                  |
| Measured Mohm      | 1,531.70              | 2,158.04              | 1,166.35               | 1,234.24            |
| Corrected Mohm     | 410.00                | 500.00                | 110.00                 | 154.00              |
| µF Ph 1 to Ground  | 32.900                | 35.700                | 32.200                 | 34.800              |
| ohm Ph 1 to 2      | 0.0741                | 0.0757                | 0.0747                 | 0.0721              |
| ohm Ph 2 to 3      | 0.0738                | 0.0753                | 0.0745                 | 0.0719              |
| ohm Ph 3 to 1      | 0.0738                | 0.0755                | 0.0745                 | 0.0719              |
| mH Ph 1 to 2       | 5.305                 | 4.640                 | 5.785                  | 5.675               |
| mH Ph 2 to 3       | 5.160                 | 4.595                 | 4.730                  | 5.890               |
| mH Ph 3 to 1       | 4.350                 | 5.480                 | 5.315                  | 5.670               |
| Average Inductance | 4.940                 | 4.905                 | 5.275                  | 5.760               |
| % Res. Imbalance   | 0.27                  | 0.26                  | 0.18                   | 0.19                |
| % Ind. Imbalance   | 11.91                 | 11.72                 | 10.36                  | 2.98                |

Date: 12/23/24 10:31 AM Test: Polarization Index Test



Date: 12/23/24 10:31 AM Dated Test Event

|               |                       |                       |                        |                     |
|---------------|-----------------------|-----------------------|------------------------|---------------------|
| Test Date     | 04/02/22              | 04/03/23              | 03/18/24               | 12/23/24            |
| Test Time     | 8:21 AM               | 11:10 AM              | 9:04 AM                | 10:31 AM            |
| Test Location | Overloads - Line Side | Overloads - Load Side | Disconnect - Load Side | Starter - Load Side |
| User          | Administrator         | Administrator         | Administrator          | Administrator       |
| Tester Serial | 5095                  | 5095                  | 5095                   | 5095                |
| MTAP ID       |                       |                       |                        |                     |
|               | Baseline              |                       |                        |                     |
| Voltage       | 1000                  | 500                   | 500                    | 500                 |
| Duration      | 600                   | 600                   | 600                    | 600                 |
| D/A Ratio     | 2.438                 | 2.006                 | 1.791                  | 1.575               |
| Polar. Index  | 8.177                 | 1.402                 | 20.154                 | 12.747              |

Remarks: Inductive imbalance is much lower this survey. No other changes to note. Continue to monitor as normal.

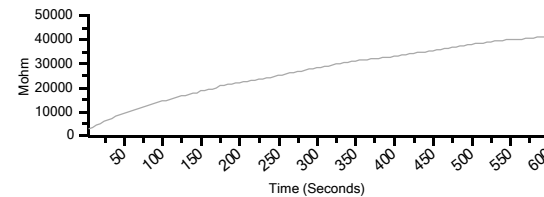
Report Title December 2024 4th Quarter MCE Report  
 Submitted By Kevin Maxwell  
 Create Date 01/02/25 7:36 AM  
 Asset Name #3 MIX TANK DISCHARGE PUMP  
 Description



Date: 12/23/24 11:58 AM Dated Test Event

| Test Date          | 04/02/22             | 04/03/23             | 03/18/24      | 12/23/24            |
|--------------------|----------------------|----------------------|---------------|---------------------|
| Test Time          | 9:39 AM              | 9:48 AM              | 11:17 AM      | 11:58 AM            |
| Test Location      | verloads - Load Side | verloads - Load Side | Cables Only   | Starter - Load Side |
| User               | Administrator        | Administrator        | Administrator | Administrator       |
| Tester Serial      | 5095                 | 5095                 | 5095          | 5095                |
| MTAP ID            |                      |                      |               |                     |
|                    | Baseline             |                      |               |                     |
| Frequency          | 1200                 | 1200                 | 1200          | 1200                |
| Charge Time        | 600                  | 600                  | 600           | 600                 |
| Voltage            | 5000                 | 2500                 | 2500          | 2500                |
| Motor Temp °C      | 17                   | 18                   | 10            | 10                  |
| Measured Mohm      | 7,137.60             | 237.79               | 15,479.82     | 10,184.80           |
| Corrected Mohm     | 1,400.00             | 51.80                | 1,900.00      | 1,300.00            |
| pF Ph 1 to Ground  | 41.100               | 42.200               | 40.800        | 43.500              |
| ohm Ph 1 to 2      | 1.1336               | 1.1452               | 1.1223        | 1.1045              |
| ohm Ph 2 to 3      | 1.1318               | 1.1431               | 1.1203        | 1.1016              |
| ohm Ph 3 to 1      | 1.1321               | 1.1434               | 1.1204        | 1.1019              |
| mH Ph 1 to 2       | 76.95                | 71.00                | 88.35         | 67.80               |
| mH Ph 2 to 3       | 75.80                | 73.35                | 72.80         | 72.80               |
| mH Ph 3 to 1       | 76.20                | 73.45                | 71.05         | 69.05               |
| Average Inductance | 76.35                | 72.60                | 70.75         | 69.80               |
| % Res. Imbalance   | 0.10                 | 0.11                 | 0.12          | 0.17                |
| % Ind. Imbalance   | 0.83                 | 2.20                 | 3.37          | 4.27                |

Date: 12/23/24 11:58 AM Test: Polarization Index Test



Date: 12/23/24 11:58 AM Dated Test Event

| Test Date     | 04/02/22             | 04/03/23             | 03/18/24      | 12/23/24            |
|---------------|----------------------|----------------------|---------------|---------------------|
| Test Time     | 9:39 AM              | 9:48 AM              | 11:17 AM      | 11:58 AM            |
| Test Location | verloads - Load Side | verloads - Load Side | Cables Only   | Starter - Load Side |
| User          | Administrator        | Administrator        | Administrator | Administrator       |
| Tester Serial | 5095                 | 5095                 | 5095          | 5095                |
| MTAP ID       |                      |                      |               |                     |
|               | Baseline             |                      |               |                     |
| Voltage       | 5000                 | 2500                 | 2500          | 2500                |
| Duration      | 600                  | 600                  | 600           | 600                 |
| D/A Ratio     | 1.587                | 1.089                | 1.734         | 1.581               |
| Polar. Index  | 2.947                | 1.320                | 4.619         | 4.047               |

Remarks: Inductive imbalance is increasing with each survey. This indicates likely rotor degradation. This does not appear to be severe yet but we will monitor this closely. All other values appear to be within spec.

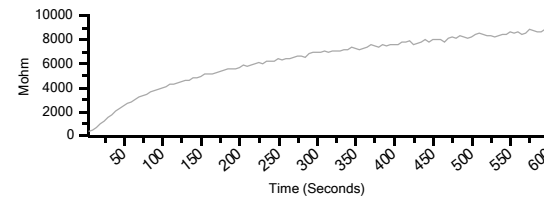
Report Title December 2024 4th Quarter MCE Report  
Submitted By Kevin Maxwell  
Create Date 01/02/25 7:42 AM  
Asset Name BEATER AGITATOR  
Description



Date: 12/23/24 12:30 PM Dated Test Event

|                    |                     |                     |
|--------------------|---------------------|---------------------|
| Test Date          | 03/18/24            | 12/23/24            |
| Test Time          | 3:27 PM             | 12:30 PM            |
| Test Location      | Starter - Load Side | Starter - Load Side |
| User               | Administrator       | Administrator       |
| Tester Serial      | 5095                | 5095                |
| MTAP ID            |                     |                     |
|                    | Baseline            |                     |
| Frequency          | 1200                | 1200                |
| Charge Time        | 600                 | 600                 |
| Voltage            | 500                 | 500                 |
| Motor Temp °C      | 12                  | 11                  |
| Measured Mohm      | 1,826.25            | 2,809.05            |
| Corrected Mohm     | 262.00              | 376.00              |
| pF Ph 1 to Ground  | 62,000              | 62,700              |
| ohm Ph 1 to 2      | 0.0313              | 0.0311              |
| ohm Ph 2 to 3      | 0.0313              | 0.0311              |
| ohm Ph 3 to 1      | 0.0314              | 0.0312              |
| mH Ph 1 to 2       | 0.130               | 0.425               |
| mH Ph 2 to 3       | 0.125               | 0.400               |
| mH Ph 3 to 1       | 0.125               | 0.405               |
| Average Inductance | 0.125               | 0.410               |
| % Res. Imbalance   | 0.21                | 0.21                |
| % Ind. Imbalance   | 2.63                | 3.66                |

Date: 12/23/24 12:30 PM Test: Polarization Index Test



Date: 12/23/24 12:30 PM Dated Test Event

|               |                     |                     |
|---------------|---------------------|---------------------|
| Test Date     | 03/18/24            | 12/23/24            |
| Test Time     | 3:27 PM             | 12:30 PM            |
| Test Location | Starter - Load Side | Starter - Load Side |
| User          | Administrator       | Administrator       |
| Tester Serial | 5095                | 5095                |
| MTAP ID       |                     |                     |
|               | Baseline            |                     |
| Voltage       | 500                 | 500                 |
| Duration      | 600                 | 600                 |
| D/A Ratio     | 1.758               | 1.900               |
| Polar. Index  | 3.974               | 3.144               |

Remarks: This motor has excellent values. Continue to monitor as normal.



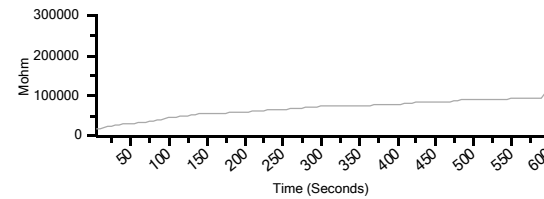
Report Title December 2024 4th Quarter MCE Report  
Submitted By Kevin Maxwell  
Create Date 01/02/25 7:45 AM  
Asset Name Hi prs Water Jet  
Description



Date: 12/23/24 9:52 AM Dated Test Event

|                    |                     |
|--------------------|---------------------|
| Test Date          | 12/23/24            |
| Test Time          | 9:52 AM             |
| Test Location      | Starter - Load Side |
| User               | Administrator       |
| Tester Serial      | 5095                |
| MTAP ID            |                     |
|                    | Baseline            |
| Frequency          | 1200                |
| Charge Time        | 600                 |
| Voltage            | 500                 |
| Motor Temp °C      | 10                  |
| Measured Mohm      | 37,658.91           |
| Corrected Mohm     | 4,700.00            |
| pF Ph 1 to Ground  | 29,800              |
| ohm Ph 1 to 2      | 0.0573              |
| ohm Ph 2 to 3      | 0.0571              |
| ohm Ph 3 to 1      | 0.0572              |
| mH Ph 1 to 2       | 2.885               |
| mH Ph 2 to 3       | 2.565               |
| mH Ph 3 to 1       | 2.980               |
| Average Inductance | 2.810               |
| % Res. Imbalance   | 0.17                |
| % Ind. Imbalance   | 8.72                |

Date: 12/23/24 9:52 AM Test: Polarization Index Test



Date: 12/23/24 9:52 AM Dated Test Event

|               |                     |
|---------------|---------------------|
| Test Date     | 12/23/24            |
| Test Time     | 9:52 AM             |
| Test Location | Starter - Load Side |
| User          | Administrator       |
| Tester Serial | 5095                |
| MTAP ID       |                     |
|               | Baseline            |
| Voltage       | 500                 |
| Duration      | 600                 |
| D/A Ratio     | 1.274               |
| Polar. Index  | 3.438               |

Remarks: Baseline data for the new motor looks good. Continue to monitor as normal.

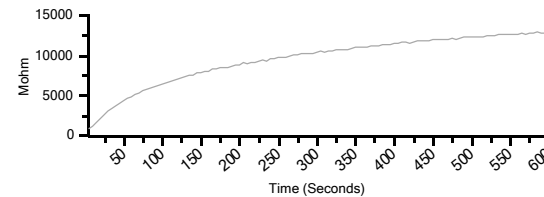
Report Title December 2024 4th Quarter MCE Report  
 Submitted By Kevin Maxwell  
 Create Date 01/02/25 7:29 AM  
 Asset Name 1 REFINER  
 Description



Date: 12/23/24 11:16 AM Dated Test Event

|                    |                      |                      |                   |                     |
|--------------------|----------------------|----------------------|-------------------|---------------------|
| Test Date          | 03/23/21             | 04/03/23             | 03/18/24          | 12/23/24            |
| Test Time          | 10:36 AM             | 10:29 AM             | 10:22 AM          | 11:16 AM            |
| Test Location      | verloads - Load Side | verloads - Load Side | Disconnect - Load | Starter - Load Side |
| User               | Administrator        | Administrator        | Administrator     | Administrator       |
| Tester Serial      | 5095                 | 5095                 | 5095              | 5095                |
| MTAP ID            |                      |                      |                   |                     |
|                    | Baseline             |                      |                   |                     |
| Frequency          | 1200                 | 1200                 | 1200              | 1200                |
| Charge Time        | 600                  | 600                  | 600               | 600                 |
| Voltage            | 5000                 | 2500                 | 2500              | 2500                |
| Motor Temp °C      | 15                   | 19                   | 10                | 10                  |
| Measured Mohm      | 2,333.99             | 77.89                | 3,954.47          | 4,834.99            |
| Corrected Mohm     | 413.00               | 18.20                | 494.00            | 600.00              |
| pF Ph 1 to Ground  | 137.000              | 136.500              | 131.900           | 139.600             |
| ohm Ph 1 to 2      | 0.2880               | 0.2923               | 0.2869            | 0.2818              |
| ohm Ph 2 to 3      | 0.2878               | 0.2921               | 0.2867            | 0.2816              |
| ohm Ph 3 to 1      | 0.2878               | 0.2921               | 0.2866            | 0.2817              |
| mH Ph 1 to 2       | 51.30                | 53.65                | 53.30             | 51.25               |
| mH Ph 2 to 3       | 57.00                | 58.00                | 52.75             | 56.70               |
| mH Ph 3 to 1       | 53.00                | 55.35                | 57.40             | 52.10               |
| Average Inductance | 53.75                | 55.65                | 54.50             | 53.35               |
| % Res. Imbalance   | 0.05                 | 0.05                 | 0.06              | 0.04                |
| % Ind. Imbalance   | 6.01                 | 4.19                 | 5.35              | 6.28                |

Date: 12/23/24 11:16 AM Test: Polarization Index Test



Date: 12/23/24 11:16 AM Dated Test Event

|               |                      |                      |                   |                     |
|---------------|----------------------|----------------------|-------------------|---------------------|
| Test Date     | 03/23/21             | 04/03/23             | 03/18/24          | 12/23/24            |
| Test Time     | 11:43 AM             | 10:29 AM             | 10:22 AM          | 11:16 AM            |
| Test Location | verloads - Load Side | verloads - Load Side | Disconnect - Load | Starter - Load Side |
| User          | Administrator        | Administrator        | Administrator     | Administrator       |
| Tester Serial | 5095                 | 5095                 | 5095              | 5095                |
| MTAP ID       |                      |                      |                   |                     |
|               | Baseline             |                      |                   |                     |
| Voltage       | 2500                 | 2500                 | 2500              | 2500                |
| Duration      | 600                  | 600                  | 600               | 600                 |
| D/A Ratio     | 1.371                | 1.058                | 1.573             | 1.621               |
| Polar. Index  | 1.906                | 0.923                | 3.274             | 2.688               |

Remarks: No issues to note. Continue to monitor as normal.

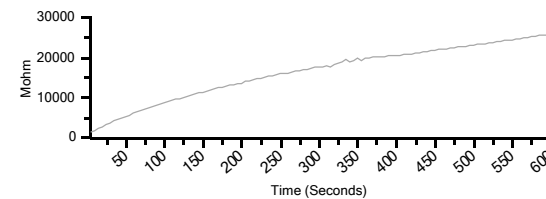
Report Title December 2024 4th Quarter MCE Report  
 Submitted By Administrator  
 Create Date 01/02/25 7:34 AM  
 Asset Name #2 REFINER  
 Description



Date: 12/23/24 11:38 AM Dated Test Event

|                    |                      |                      |               |                     |
|--------------------|----------------------|----------------------|---------------|---------------------|
| Test Date          | 04/02/22             | 04/03/23             | 03/18/24      | 12/23/24            |
| Test Time          | 9:15 AM              | 10:10 AM             | 10:51 AM      | 11:38 AM            |
| Test Location      | verloads - Load Side | verloads - Load Side | Cables Only   | Starter - Load Side |
| User               | Administrator        | Administrator        | Administrator | Administrator       |
| Tester Serial      | 5095                 | 5095                 | 5095          | 5095                |
| MTAP ID            |                      |                      |               |                     |
|                    | Baseline             |                      |               |                     |
| Frequency          | 1200                 | 1200                 | 1200          | 1200                |
| Charge Time        | 600                  | 600                  | 600           | 600                 |
| Voltage            | 5000                 | 2500                 | 2500          | 2500                |
| Motor Temp °C      | 24                   | 19                   | 10            | 10                  |
| Measured Mohm      | 326.48               | 137.48               | 6,252.05      | 5,984.01            |
| Corrected Mohm     | 108.00               | 32.10                | 780.00        | 750.00              |
| pF Ph 1 to Ground  | 97.100               | 93.800               | 91.600        | 93.100              |
| ohm Ph 1 to 2      | 0.2888               | 0.2949               | 0.2894        | 0.2840              |
| ohm Ph 2 to 3      | 0.2887               | 0.2947               | 0.2893        | 0.2842              |
| ohm Ph 3 to 1      | 0.2887               | 0.2949               | 0.2891        | 0.2842              |
| mH Ph 1 to 2       | 64.70                | 59.35                | 64.20         | 65.40               |
| mH Ph 2 to 3       | 66.10                | 66.45                | 64.70         | 66.05               |
| mH Ph 3 to 1       | 59.70                | 63.90                | 68.26         | 58.65               |
| Average Inductance | 63.50                | 63.25                | 65.70         | 63.40               |
| % Res. Imbalance   | 0.02                 | 0.05                 | 0.06          | 0.05                |
| % Ind. Imbalance   | 5.98                 | 6.14                 | 3.85          | 7.44                |

Date: 12/23/24 11:38 AM Test: Polarization Index Test



Date: 12/23/24 11:38 AM Dated Test Event

|               |                      |                      |                      |               |                     |
|---------------|----------------------|----------------------|----------------------|---------------|---------------------|
| Test Date     | 07/21/21             | 04/02/22             | 04/03/23             | 03/18/24      | 12/23/24            |
| Test Time     | 8:23 AM              | 9:15 AM              | 10:10 AM             | 10:51 AM      | 11:38 AM            |
| Test Location | verloads - Load Side | verloads - Load Side | verloads - Load Side | Cables Only   | Starter - Load Side |
| User          | Administrator        | Administrator        | Administrator        | Administrator | Administrator       |
| Tester Serial | 5095                 | 5095                 | 5095                 | 5095          | 5095                |
| MTAP ID       |                      |                      |                      |               |                     |
| Voltage       | 2500                 | 5000                 | 2500                 | 2500          | 2500                |
| Duration      | 600                  | 600                  | 600                  | 600           | 600                 |
| D/A Ratio     | 1.085                | 1.448                | 1.067                | 1.700         | 1.690               |
| Polar. Index  | 1.195                | 2.374                | 1.041                | 5.296         | 4.297               |

Remarks: No issues to note this survey. Continue to monitor as normal.