Condition Monitoring

Report

Report ID

customer.

day. month. year

Equipment

The following equipment was used to carry out the survey:

SKF Microlog CMVA60. Serial No 602995

Accelerometer: Serial No 003088

SKF @ptitude Analysis Software.

Dell Notebook Computer

Analyst

Technician
# Condition Monitoring Report

**Customer**

**Plant**

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<th>Date:</th>
<th>Report No.</th>
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<thead>
<tr>
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<th>Equipment</th>
<th>Status</th>
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<tr>
<td>GEL G’ Floor</td>
<td>2025 FA115 No.2 FD Fan</td>
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<td></td>
<td>2025 FA127 No.3 FD Fan</td>
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<tr>
<td>Burner G’Floor</td>
<td>2025 FA202 Zone 1 Comb Fan</td>
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<td>2025 FA203 Zone 1 Re-Circ Fan</td>
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<td>2025 FA205 Zone 2 Comb Fan</td>
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<td>2025 FA206 Zone 2 Re-Circ Fan</td>
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<td>GEL 2nd Floor</td>
<td>2026 FA102 No.1 FD Fan</td>
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<td>2025 FA113 No.1 ID Fan</td>
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<tr>
<td></td>
<td>2025 FA125 No.2 ID Fan</td>
<td>See August 2013 Report</td>
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<td>Fan Unbalance.</td>
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<tr>
<td>Powder</td>
<td>2026 FA117 Grinder Asperation Fan</td>
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| **Line Two** | | | | |
| GEL G’ Floor | 2035 FA115 No.2 FD Fan | | | |
| | 2035 FA127 No.3 FD Fan | See August 2013 Report | | Fan Unbalance |
| Burner G’Floor | 2035 FA202 Zone 1 Comb Fan | | 3 | Vibration Increases |
| | 2035 FA203 Zone 1 Re-Circ Fan | | 4 | Fan Unbalance |
| | 2035 FA205 Zone 2 Comb Fan | | | |
| | 2035 FA206 Zone 2 Re-Circ Fan | | | |
| GEL 2nd Floor | 2035 FA102 No.1 FD Fan | Advisory Report | 5 | |
| | 2035 FA113 No.1 ID Fan | | | |
| | 2035 FA125 No.2 ID Fan | | 6 | Vibration |
| Powder | 2036 FA117 Grinder Asperation Fan | | | |

| **Refrigerated Water** | | | | |
| 2006 PU 101 | | | |
| 2006 PU 102 | | | |
| 2006 PU 103 | | | |
| 2006 PU 104 A | | | |
| 2006 PU 104 B | No Data | | |

| **Cooling Water** | | | | |
| 2005 PU 101 | | | |
| 2005 PU 102 | | | |
| 2005 PU 103 | Last Data Jan 2014 | | |
| 2005 PU 104 | No Data | | |

**Key:-**

- Recommend Action
- Fluctuating
- Satisfactory
- Not Running

All quoted velocity amplitudes are mm/s RMS. Overall Values are 30Kcpm frequency length.
Report

Line Two

Gel Section Ground Floor

No.1 Burner
2035 FA 202
Burner Zone 1 Combustion Fan

Motor

As discussed during the site visit the noise level and vibration has increased on this unit. The increase in vibration on this unit isn’t due to an increase in 1x vibration but turbulence possibly caused by air flow restriction (See motor non drive end horizontal vibration trend & waterfall spectrum 1H).

Recommended Action:

Motor

Due to the increase in air turbulence I would recommend checking the dampner settings and pipe work for any blockages/restrictions

Inspection:

Repaired by: Date:

Comment:
**Report**

**Line Two**

**Gel Section Ground Floor**

**No.2 Burner**

2035 FA 206
Burner Zone 2 Re-Circ Fan

**Motor & Fan Shaft**

Although at a reduced level the vibration remains above ‘baseline’ levels (See fan shaft impellor end horizontal vibration trend 4H).

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**Trend/Spectrums**

**Fan Shaft Impellor End Horizontal Vibration Trend 4H**

Y Axis 0-22mm/s

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**Recommended Action:**

**Motor & Fan Shaft**

The increased vibration is due to 1x rpm frequency, I would therefore recommend inspecting the impellor for wear/damage and check it is free from build up.

If the impellor is in a satisfactory condition check all holding down bolts are tight and secure, then re-align the motor and fan shaft.

If the vibration remains above ‘baseline’ levels after the above corrective actions have been carried out, I would recommend the impellor is in-situ balanced.

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**Inspection:**

Repaired by: Date:

Comment:
Condition Monitoring Report

Customer

Plant

**Report**

Line Two

**Gel Section Second Floor**

**2035 FA 102 No 1 FD Fan**

Motor, Pedestal Bearings & Fan Shaft

Following the re-setting and re-alignment of the motor/pedestal coupling and the in-situ balancing of the impellor, the vibration on the unit has reduced to an acceptable level (See pedestal drive end vertical vibration trend 3V & fan shaft drive end horizontal vibration trend 5H).

**Trend/Spectrums**

- **Pedestal Drive End Vertical Vibration Trend 3V**
- **Fan Shaft Drive End Horizontal Vibration Trend 5H**

**Recommended Action:**

Motor, Pedestal Bearings & Fan Shaft

We will use these levels as the new ‘baseline’.

**Inspection:**

Repaired by:        Date:

Comment:
Report

Line Two

Gel Section Second Floor

2035 FA 125 No 2 ID Fan

Motor

The motor readings remain at an acceptable level.

Fan shaft

The vibration on the fan shaft drive end remains at a higher than acceptable level (See fan shaft drive end horizontal vibration trend 3H).

Recommended Action:

Motor

None.

Fan shaft

New balanced pulleys are to be fitted to the unit, following this work we will assess the fan shaft vibration and report accordingly.

Inspection:

Repaired by:           Date:

Comment: