Step 3

**The Quick-Start Guide to**

**Predictive Maintenance 4.0**

**WORKSHEET 3**

**Identify the failure mode you’ll track.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| section E5 belt conveyors | **Value driver from step 1** | **Motivation** | **Impact** | **must-have in PdM pilot?** |
| **Fault to detect** | *(only list drivers this fault can address.)* | *(why is this fault relevant to this driver?)* | *(how will successful detection of this fault benefit this driver?)* |  |
| belt misalignment | avoid excessive belt wear | direct cause of excessive belt wear | calcs on our 2018 data suggest early detection could double belt lifespan | ✓ |
| lower maintenance workload | 2018 data: 112 h spent inspecting & replacing worn belts in section E5 | calcs on our 2018 data suggest early detection could halve time spent |
| reduce customer-visible downtime | 2018 data: belt breakage caused 15 h of baggage claim downtime (note: belts in whole inter-terminal system) | hard to predict; depends on routing inbound vs outbound. could have direct 1-to-1 reduction. |
| electrical motor faults | lower maintenance workload | 2018 data: 34 electrical failures, avg time to repair/replace 3h (note: motors in whole inter-terminal system) | (etc) |  |
| reduce customer-visible downtime | (etc) |  |  |
| bearing degradation | (etc) |  |  |  |
| (etc) |  |  |  |  |

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