Maintenance Reliability and OEE Symptom and Condition Logbook - No Start or No Operation

Maintenance Reliability and OEE | No Start or No Operation | Asset ID FIX-22-03-02

Safety gate: Stop, isolate and verify before exposure to hazardous energy. Lockout/Tagout and live testing require the applicable site procedure, authorised controls and a qualified person. Never bypass a guard, interlock or protective device to complete this workbook.

How to use this field resource

This is an equipment-agnostic documentation workbook for maintenance reliability and oee. It helps a trained team turn downtime reports into a consistent event record that supports repeatable decisions. It does not identify a fault by itself and does not replace the equipment-specific OEM manual, drawings, limits, permits or a qualified technician's judgement.

Intake field	Record
Asset or equipment ID	_____
Site and location	_____
Reported by / time	_____
Fault situation	No Start or No Operation
Operating state	Stopped / standby / starting / running / loaded
Safety owner	_____
OEM reference used	Document number and revision: _____

Evidence areas for this system

For a no start or no operation, focus on evidence that can be dated, repeated and handed to another technician. Capture the as-found state before clearing alarms, changing settings or disturbing connections.

#	Evidence area	First record
1	Failure start and detection time	As-found note: _____
2	Asset function lost	As-found note: _____
3	Operating context	As-found note: _____
4	Temporary restoration	As-found note: _____
5	Confirmed cause evidence	As-found note: _____
6	Production and safety impact	As-found note: _____

Symptom and Condition Logbook

Use this section to separate missing supply, command, permissive and response evidence. Record the exact state reached before the sequence stops before choosing the next action.

Event	Date and time	Operating condition	Symptom detail	Result
1	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
2	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
3	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
4	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
5	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
6	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent
7	____ / ____ ____:____	State / load: _____	Observed: _____	Present / absent

Make the log useful

- Use the same words for the same observation.
- Record when the symptom is absent, not only when it appears.
- Note load, temperature, environment and operator action.
- Keep observations separate from suspected causes.
- Mark any intervention between events.

Maintenance Reliability and OEE Evidence Map

Evidence first: Preserve alarms, event history, settings, trends and the as-found physical state before reset, disconnection or adjustment. If safe access is uncertain, stop and refer the task to the authorised person.

#	System area	Evidence action	Trace	Record
1	Failure start and detection time	Observe and identify	Evidence ID: _____	Finding: _____
2	Asset function lost	Record source and time	Evidence ID: _____	Finding: _____
3	Operating context	Compare with reference	Evidence ID: _____	Finding: _____
4	Temporary restoration	State what it supports	Evidence ID: _____	Finding: _____
5	Confirmed cause evidence	State what it rules out	Evidence ID: _____	Finding: _____
6	Production and safety impact	Choose the least invasive next check	Evidence ID: _____	Finding: _____

Scenario boundary

For this no start or no operation, protect people and equipment before any attempt to reproduce the failed start. Write the boundary before testing so urgency does not quietly change the rules.

Boundary	Definition
Known good condition	_____
Known failed condition	_____
Difference between them	_____
First missing evidence	_____
Stop-work threshold	_____
Escalation owner	_____

Evidence labels

- FACT - directly observed and traceable.
- REPORT - supplied by another person; source recorded.
- INFERENCE - reasonable explanation that still needs a test.
- UNKNOWN - important gap that must not be filled by assumption.
- LIMIT - OEM, engineering or site acceptance value.

No Start or No Operation Condition Workbook

The goal is to separate missing supply, command, permissive and response evidence. Describe the failed state narrowly enough that another trained person could look for the same thing without being told your suspected cause.

Question	Boundary prompt	Record
What changed?	Function, output, indication or behaviour	_____
Where?	Asset, side, circuit, zone or process stage	_____
When?	Sequence step, runtime, load or environment	_____
How often?	Every cycle, random, once, or after delay	_____
What restores it?	Nothing, time, reset, cooling or load change	_____
What stays normal?	Unaffected systems or functions	_____
What changed recently?	Work, software, settings, parts or operating duty	_____

Controlled reproduction plan

Plan field	Record
Safe starting state	_____
One condition to vary	_____
Conditions held constant	_____
Evidence captured	The exact state reached before the sequence stops
Maximum attempts	_____
Immediate stop signal	_____
Authorising person	_____

Attempt notes

Attempt	Starting condition	Result	Decision
1	State: _____	Observed: _____	Next decision: _____
2	State: _____	Observed: _____	Next decision: _____
3	State: _____	Observed: _____	Next decision: _____
4	State: _____	Observed: _____	Next decision: _____

Measurement and Evidence Register

Measurement boundary: This page records an approved test; it does not authorise one. A qualified person must choose the method, instrument category, connection points, isolation state and protective controls from the applicable procedure.

ID	Evidence area	Traceable source	Result	When
1	Failure start and detection time	Method / source: _____	Value / state: _____	Time: _____
2	Asset function lost	Method / source: _____	Value / state: _____	Time: _____
3	Operating context	Method / source: _____	Value / state: _____	Time: _____
4	Temporary restoration	Method / source: _____	Value / state: _____	Time: _____
5	Confirmed cause evidence	Method / source: _____	Value / state: _____	Time: _____
6	Production and safety impact	Method / source: _____	Value / state: _____	Time: _____

Instrument and reference record

Control	Record
Instrument or data source	_____
Identifier and range	_____
Calibration / validation status	_____
OEM or engineering reference	Document and revision: _____
Equipment operating state	_____
Uncertainty or limitation	_____

Before using a value

- Check units, scale, timestamp and source identity.
- Keep raw evidence where practical; do not retain only a conclusion.
- Record values that disagree with the current theory.
- Compare only like operating conditions.
- Treat a single normal reading as one data point, not proof that an intermittent fault is absent.

Cause and Evidence Matrix

List competing explanations before the team settles on one. A good next check separates hypotheses; a poor check produces the same answer no matter which cause is true.

#	Hypothesis	Supporting	Contradicting	Discriminating check
1	Failure start and detection time hypothesis	For: _____	Against: _____	Next evidence: _____
2	Asset function lost hypothesis	For: _____	Against: _____	Next evidence: _____
3	Operating context hypothesis	For: _____	Against: _____	Next evidence: _____
4	Temporary restoration hypothesis	For: _____	Against: _____	Next evidence: _____
5	Confirmed cause evidence hypothesis	For: _____	Against: _____	Next evidence: _____
6	Production and safety impact hypothesis	For: _____	Against: _____	Next evidence: _____

Five-why chain with evidence

Level	Explanation	Proof or gap
Problem	No Start or No Operation	Evidence ID: _____
Why 1	_____	Evidence: _____
Why 2	_____	Evidence: _____
Why 3	_____	Evidence: _____
Why 4	_____	Evidence: _____
Why 5	_____	Evidence: _____

Cause confidence

- Confirmed - reproduced or directly measured against a valid reference.
- Probable - best fit, but one meaningful alternative remains.
- Possible - plausible and worth a safe test.
- Unrelated - contradicted by the evidence.
- Unknown - evidence is missing or unreliable.

Repair Decision and Return-to-Service Gate

Release authority: Completion of a repair is not permission to energise or operate. Restore energy and return equipment to service only through the site's authorised process, with guards and protective functions reinstated.

Decision field	Record
Confirmed problem	_____
Evidence-supported cause	_____
Approved repair reference	Document and revision: _____
Work completed	_____
Parts / settings changed	_____
Residual defect or restriction	_____
Person completing / checking	_____

Controlled verification

Verification	Acceptance basis	Status
As-found symptom	No Start or No Operation	Absent / present / not tested
Primary function	Failure start and detection time	Pass / fail / not tested
Related function	Asset function lost	Pass / fail / not tested
Protection and alarms	Normal protective state retained	Pass / fail / not tested
Leak, heat, noise or damage	No new adverse condition	Pass / fail / not tested
Recorded operating condition	Load / mode / duration: _____	Accepted / restricted

Release signatures

- Technical check by: _____ Date/time: _____
- Operations acceptance by: _____ Date/time: _____
- Safety or permit close-out by: _____ Date/time: _____
- Follow-up owner and due date: _____

Handover, Follow-Up and Prevention Plan

Close the record so the next shift can understand the no start or no operation, the evidence, the repair decision and any remaining restriction without relying on memory.

Handover field	Record
Current equipment state	_____
What was confirmed	_____
What remains unknown	_____
Operating restriction	_____
Evidence location	Log / work order / folder: _____
Next owner and action	_____
Escalation trigger	_____

Follow-up schedule

When	Review	Record
Next shift	Confirm state and restriction	Owner: _____ Result: _____
24 hours	Review failure start and detection time	Owner: _____ Result: _____
7 days	Check for repeat events under comparable duty	Owner: _____ Result: _____
30 days	Review effectiveness and maintenance action	Owner: _____ Result: _____

Prevention decision

- Update the task, limit, drawing or training only when the cause supports it.
- Remove any temporary control by its approved expiry point.
- Share the lesson without exposing private, security-sensitive or proprietary data.
- Record whether the action reduced repeat faults, downtime or diagnostic effort.
- Reopen the analysis if the symptom returns under the same conditions.

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