

Manufacturing AI Rollout Checklist

Team Nebula - forward-deployed AI for operators

CTA word: CHECKLIST

A practical gate list for plant, warehouse, and ops leaders before an AI agent writes to a system of record. No invented benchmarks - use your own numbers in the blanks.

0. Outcome first

- ☐ One sentence: what decision or cycle time improves if this works?
- ☐ Owner named (person, not a committee)
- ☐ Success metric and a kill threshold written down (see SCORECARD magnet)

1. Scope fence

- ☐ In-scope SKUs / lines / sites listed
- ☐ Explicitly out-of-scope listed
- ☐ No "and also email the customer" creep in v1

2. Systems of record

- ☐ Source systems named (ERP, WMS, MES, QMS)
- ☐ Write destinations named
- ☐ Read-only pilot path exists if write is blocked

3. Data that must be true

- ☐ Master data owner for the entities the agent uses
- ☐ Freshness SLA (how stale is too stale?)
- ☐ Known bad fields documented (do not silently fix)

4. Exception classes

- ☐ Top 5 exception types listed
- ☐ Which the agent may resolve alone
- ☐ Which require a human approval gate

5. Approval gates

- ☐ Dollar / quantity / safety thresholds defined
- ☐ Approver roster + backup
- ☐ Audit log destination

6. Failure modes

- ☐ What happens when the model is unsure
- ☐ What happens when the API is down
- ☐ Rollback / undo path for a bad write

7. Floor reality check

- ☐ One supervisor reviewed the workflow with real tickets
- ☐ Night / weekend coverage agreed
- ☐ Training note for the people who will override the agent

8. Security and access

- ☐ Least-privilege service account
- ☐ Secrets not in prompts or tickets
- ☐ PII / regulated fields redaction rules

9. Observability

- ☐ Per-run log: inputs, decision, action, approver
- ☐ Weekly review meeting on the calendar
- ☐ False-positive / false-negative sampling plan

10. Change control

- ☐ Prompt / policy version pinned
- ☐ Who can promote a change to prod
- ☐ Companion SCORECARD filled for the pilot window

11. Stop conditions

- ☐ Kill criteria signed before go-live
- ☐ Communication template if the agent is paused

How to use

Print this, fill blanks with your plant's numbers, and refuse to expand scope until gates 0-6 are checked. Pair with GATES and SCORECARD.

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