Tallard Additive

Built to be audited.

Additive manufacturing for aerospace suppliers.

Sample work. Tallard Additive and its product names are invented for illustration. The aerospace standards and regulations named in this kit are real.

THE FEAR

The risk isn't the printer. It's the audit after.

Your shop can make the part. The question is what happens next:

01 The auditor picks a serial number and asks for the powder lot behind it.

02 Your customer asks whether build 400 ran the same process as build 1.

03 One lot can't be accounted for, and every part built from it goes into quarantine, including the ones already shipped.

A new process is judged by its records, not its parts.

WHAT AN AUDITOR ASKS OF A NEW PROCESS

Four questions every auditor asks of a new process

1

Is the process controlled?

Would build 400 come out the same as build 1?

CONTROL

2

Can you trace what it made?

Every part, back to its material.

TRACE

3

Can you prove it?

Objective evidence, ready before anyone asks.

PROVE

4

Do your people know how?

Training on record, and someone to call.

STAND BEHIND

Our offer is built in that order: **Control · Trace · Prove · Stand behind.**

01 · CONTROL

Control: the process is frozen, and it stays frozen.

Every Keel and Gantry cell ships with:

- One locked parameter set per material, under revision control
- Build files released through Datum Build, each change leaving a revision
- Machine software version, maintenance and calibration logged per cell
- Closed powder handling with lot segregation on Keel cells

A parameter change is a controlled change, as AS9100D 8.5.6 treats it. Production software and build files are validated and version-controlled as AS9100D 8.5.1.1 expects.

Where additive audits fail.

The Performance Review Institute, which administers Nadcap, lists the most common nonconformances in its additive manufacturing audits:

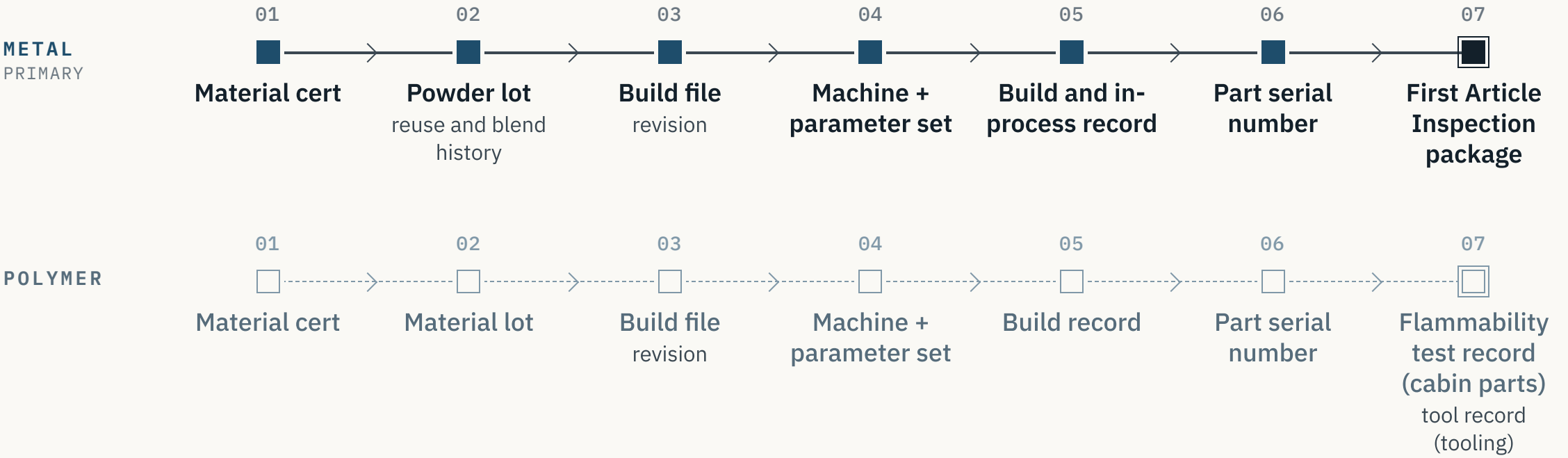
1. Powder management and handling (moisture and contamination control)
2. Operator training
3. Maintenance of AM equipment
4. Calibration of AM equipment
5. Control of key process variables in process control documentation

Every Tallard cell and service is built against that list.

Source: Performance Review Institute, Nadcap Additive Manufacturing page (p-r-i.org), read 1 November 2026.

02 · TRACE

Trace: every part traces to its powder lot. Every one.



Datum Record holds every link. Pick any part. We show you everything that touched it.

03 · PROVE

Prove: the evidence exists before anyone asks for it.

From build record to FAI package

- Datum Design extracts the characteristics from the 3D model you released.
- Datum Record supplies material and special-process accountability for each part.
- Witness FAI prepares that evidence in your AS9102C forms and supports your inspectors.
- After a change, the record shows exactly what changed. That is what you need to evaluate a partial FAI under AS9102C 4.6.



LIMIT

You own and sign the First Article Inspection report. We prepare the evidence.

04 · STAND BEHIND

Stand behind: people who have sat on your side of the audit table.

Our aerospace applications team came from supplier quality, not from sales. We have sat on your side of the audit table.

Witness Qualify

Installation and operational qualification of the cell, parameter lock, coupon and witness-coupon plans, and a draft process specification for you to submit to your customer

Witness Academy

Training for operators, inspectors and engineers, with training records your auditor can see

Witness Lot

Incoming certs filed against lots, powder reuse and blend history, lot-to-part genealogy

Marguerite Osei, Head of Aerospace Applications. Spent fourteen years as a supplier quality engineer at aerospace Tier 2 machine shops before joining Tallard.

WHERE TO START

Start where there's no flight load, with the same records.

STEP 1 · FIRST CELL

Gantry

Tooling, jigs, fixtures and check gauges, under revision control. Cabin interior parts tied to their material lot and FAR 25.853 test record. Your quality team learns the record on parts that don't fly.

STEP 2 · DESTINATION

Keel

Metal flight hardware on a locked laser or electron-beam powder bed fusion cell, with the record habits already in place.

DATUM RECORD — ONE RECORD, BOTH STEPS

Your first Tallard cell may hold a fixture. It will keep records like it's holding a flight part.

THE LIMITS

What we don't do

We don't qualify your process. Your customer or the design authority does. We supply the cell, the data and the draft specification.

We don't sell a "certified" machine. No machine is. AS9100D certifies organizations. Nadcap accredits a supplier's process at a site.

We don't sign your FAI. You own the report under AS9102C.

We don't certify material. Certs come from the material producer. We file them against lots.

We don't make your parts. We sell, configure and support the cells you make them on.

Our software doesn't fall under DO-178C or DO-254. Those cover software and electronic hardware installed in airborne systems. Datum runs on the ground.

NEXT STEP

Next step: an audit-readiness review

A 30-minute audit-readiness conversation with Tallard's aerospace applications team, with your Quality Manager in the room.

Bring the questions your auditor or your customer would ask about a new additive process. We'll show you where the record answers them, and tell you where it doesn't yet.

CONTACT

NAME _____ EMAIL _____ PHONE _____

A consequence, not a reason to buy: when the record already exists, the FAI package is pulled from it instead of rebuilt by hand.

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