

GLASS HULL

PROOF POSIT · JFD-20260920-PP-00001 · Robinhood Chain fee distributions

2026-04-30 → 2026-09-06T11:04:57Z

Robinhood Chain fee distributions

Every payment the chain has made to the Arbitrum ecosystem, read from the chain

6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac

PENDING · PENDING

PENDING · PENDING

PENDING · PENDING · PENDING

JFD-20260920-PP-00001 · 6b9d852546b0 · 1/1 · PENDING · <https://jetfyul.com/v/JFD-20260920-PP-00001>

Glass Hull · PP-Template 01-926 · Smoking Gun → 1911
Matchstick Made © 2026 · Jet Fyul Dynamics LLC

NOTE ON THIS DOCUMENT

The pages above reproduce the sealed document. The sealed record is a file.

What the Notary authorised, what both hardware witnesses signed and what the ledger event records is the file JFD-20260920-PP-00001 . pdf - 4287866 bytes, SHA-256 b15b75e edd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed.

The sealed document JFD-20260920-PP-00001 . pdf (4287866 bytes, SHA-256 b15b75e edd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed) is embedded in this PDF as a file attachment.

The anchor proof as stamped at sealing JFD-20260920-PP-00001 . pdf . ots (821 bytes, SHA-256 139dea64ad2a078404da347347db4058a8c7eb214445cda70950af4142dcc62b) is embedded in this PDF as a file attachment.

Its exact source, whose fingerprint the document prints, PP-003-v2-FULL-ASSEMBLED . md (13664 bytes, SHA-256 6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac) is embedded in this PDF as a file attachment.

The seal record from which the certificate is built seal-record-JFD-20260920-PP-00001 . json (6679 bytes, SHA-256 3ca43a11bd99deed188750f8c17fba29340785412dabed55caaffb2cf54876ea) is embedded in this PDF as a file attachment.

The complete anchor proof, carrying the Bitcoin attestation, JFD-20260920-PP-00001 . pdf . anchored . ots (5249 bytes, SHA-256 8b8c8c7516301efe550222bafae68f38fb8394b177aa62a5b0aaaaa373e0247f) is embedded in this PDF as a file attachment.

The anchor confirmation from which the certificate's Bitcoin block is taken anchor-confirmation-JFD-20260920-PP-00001 . json (2935 bytes, SHA-256 4f73f8de1aa9a071f75a17a8ef26099ddea59bf32cdd8f8c4de2c161ddca32d5) is embedded in this PDF as a file attachment.

Open the attachments pane of your PDF reader to extract them, and hash each file as stored.

What follows, in order

The seal page, carrying the seal record's values: fingerprint, ledger event, both witnesses and the anchor. After it, the Certificate of Authenticity on the Smoking Gun plate, built from the same seal record and signed; then the page "How to verify this without the Issuer, in six steps", which carries the record, both witnesses and the anchor in full, and the steps that verify all of it without the Issuer.

K. L. Phillips

K. L. Phillips, a man

Principal, Jet Fyul Dynamics LLC · The author stands behind every word.



BLOCK 2 — ISSUER

ISSUER Jet Fyul Dynamics LLC · Wyoming
RAIL Matchstick Tribunal
CUSTODY both witness keys held by the issuer, in silicon, on separate hosts; never exported

BLOCK 4 — WHO SIGNED IT

Two independent hardware witnesses. Conforming tests of a defined procedure — not a primary and a backup.

	WITNESS 1	WITNESS 2
chip identity	a9-atecc608b-slot0	a10-atecc608b-slot0
serial	0123ADA0711D8597EE	0123DC797ACC1195EE
curve	ECDSA-P256 (secp256r1)	ECDSA-P256 (secp256r1)
public key	d62d03f8dc3813fb5b74f2b64339d185...	853e69fc700990303abfe61358bfa456...
signature over artifact hash	→ ledger event 3024863	→ ledger event 3024863
signed (UTC)	→ event 3024863	→ event 3024863
federation peer	a10-atecc608b-slot0	a9-atecc608b-slot0
host · custody	A9 · Jet Fyul Dynamics LLC	A10 · Jet Fyul Dynamics LLC
certifies in accordance with	Fed. R. Evid. 902(13), 902(14)	Fed. R. Evid. 902(13), 902(14)
verified offline	→ event 3024863	→ event 3024863

Each signature verifies on its own, against its own public key, without the other and without anything of ours.
One signature is not a seal: if either witness is unreachable, no seal is produced. Both chips are the same make and model, provisioned and owned by the issuer — independent in custody and location, not in supply chain or ownership.

Full public keys, signatures, and the Rule 902(11) certification of a qualified person: ledger event → event 3024863 · <https://jetfyul.com/v/JFD-20260920-PP-00001>

Blocks 1-3 are inside these bytes; Block 4 live cells, Block 5 (Ed25519 a1-ledger) and Block 6 (Bitcoin anchor) live on the ledger and at <https://jetfyul.com/v/JFD-20260920-PP-00001>

GLASS HULL

CERTIFICATE OF AUTHENTICITY · JFD-20260920-PP-00001

JFD-20260920-PP-00001.pdf · 4287866 bytes · sealed 2026-09-20T02:30:08Z

Robinhood Chain fee distributions

Certificate JFD-20260928-CERT-00007

b15b75eedd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed

Ledger event 3024863 (kind-15)

A9 0123ADA0711D8597EE · A10 0123DC797ACC1195EE

Bitcoin block 967782 · 2026-09-20T02:36:02Z

b15b75eedd5fb3a3 · ANCHORED · <https://jetfyul.com/v/JFD-20260920-PP-00001>

K. L. Phillips
Chief Executive Officer

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How to verify this without the Issuer, in six steps

Robinhood Chain fee distributions - JFD-20260920-PP-00001

The record

Document control number: JFD-20260920-PP-00001

Fingerprint (SHA-256 of the sealed file, raw bytes as stored):

b15b75eedd5fb3a3acd64178b994494911cf524fc9e4c145e30970da006841ed

Sealed file: JFD-20260920-PP-00001.pdf, 4287866 bytes

Source fingerprint printed inside the document:

6b9d852546b04f343a7d59018c449b113a044cacae10202ce03c3b28bb83b5ac

Ledger event (kind-15): 3024863, event hash

0bdb2d14b709d8bf222ed1df552eaf6fb2e75c2bf73ad745ff5a2b9c5fabe5d3

Notary authorisation (kind-3): 3024861

Seal request signed by both witnesses: SHA-256

6a7152e801e0eef8e735317fda497c0ce784ae724c1fc95fc559c7b0175c5995

Anchor: OpenTimestamps, **ATTESTED in Bitcoin block 967782** - block hash

0000000000000000000217f5069b04da88efa203711ed83122f7203c89dcc1d1, block time
2026-09-20T02:36:02Z.

Calendars that attested: <https://finney.calendar.etsupply.com> (block 967815);

<https://btc.calendar.catallaxy.com> (block 967784); <https://alice.btc.calendar.opentimestamps.org> (block 967821);

<https://bob.btc.calendar.opentimestamps.org> (block 967782). The earliest attested block is the anchor.

Anchor check: the committed value equals block 967782's merkle root

3ddb9161ce78d336c8a9e9f65792b2b0dfdeefd7241389f44cc8475c78f6c2ab, and mempool.space and
blockstream.info agree on that merkle root and on the block hash (checked 2026-09-27T22:13:11Z).

Proofs: the proof as stamped at sealing, JFD-20260920-PP-00001.pdf.ots and the complete proof

JFD-20260920-PP-00001.pdf.anchored.ots, which carries the Bitcoin attestation itself.

Verification address: <https://jetfyul.com/v/JFD-20260920-PP-00001>

The two hardware witnesses

**Witness 1 - host A9, a9-atecc608b-slot0, serial 0123ADA0711D8597EE, curve ECDSA-P256 (secp256r1),
signed 2026-09-20T02:30:05.921503+00:00**

Public key: d62d03f8dc3813fb5b74f2b64339d185742aabcae1bdcfd2f7a7ad59f1dd3c5d50e57effa4a3c888
f58c3eca9d274bd7f0b8d263fa38bbf0bc6fbff6035c2411

Signature: afa65d899031e1f68128d3f701564f12ab04719dc3e141ea7b09076b447bbf150aef27bd3d189490d
e539ef40271e7a8f54e658176549e7a9a50eba3fe940e88

**Witness 2 - host A10, a10-atecc608b-slot0, serial 0123DC797ACC1195EE, curve ECDSA-P256 (secp256r1),
signed 2026-09-20T02:30:08.129901+00:00**

Public key: 853e69fc700990303abfe61358bfa456160eaae1529dbc74805d1639cfc88e78497bbe060e7ae5d5
4466b2ce0a2753e14204a21eed4a132a61ace3294f9beba1

Signature: fca99a978a955a45b60d0680e62abd7471043f97951489b1dca6180706627f27332c82a4a56cfe76b
299b84248d31505f5ddf22e8db0d26f99549c7ece5a229f

The six steps

(1) Extract JFD-20260920-PP-00001.pdf from this PDF's attachments and hash it as stored, with no
normalisation. Its SHA-256 must equal the fingerprint above.

(2) Read ledger event 3024863 by its id. Its payload must carry that fingerprint as doc_sha256 and
JFD-20260920-PP-00001 as dcn.

(3) Verify witness 1's signature as ECDSA over P-256, with the public key above, over the seal request bytes
whose SHA-256 is 6a7152e801e0eef8e735317fda497c0ce784ae724c1fc95fc559c7b0175c5995.

(4) Verify witness 2's signature the same way. Each signature must verify under its own key and fail under the
other's.

(5) Read the OpenTimestamps proof against the same fingerprint. It must carry a Bitcoin block-header attestation at
block 967782; ask any block explorer for that block and compare its merkle root with the value the proof commits
to.

(6) Open <https://jetfyul.com/v/JFD-20260920-PP-00001> and confirm it shows the same fingerprint, ledger event,
witnesses and anchor.

This certificate supersedes an earlier one

This certificate supersedes certificate **JFD-20260927-CERT-00002** (ledger event 3199035, SHA-256 18a4ade49a257d10f4cf2881fe739182d202ae2fdeeda195a0e7ad9151917c87). That certificate was issued before the certificate design of record was applied. Nothing about the certified document changed: the same file, the same fingerprint, the same sealing event and the same two witness signatures. The earlier certificate remains a valid seal of its own bytes; it is no longer the certificate of record.

This certificate goes to what the record is and that it has not been altered. It is not a sworn declaration and does not assert the truth of anything the document says.