

FORENSIC CASE UPDATE REPORT

MCRO | Guertin Case Update

New Filings Forensic Cross-Match & Docket Status (March 2026)

Property	Value
Report Date	March 8, 2026
Case Reference	State of Minnesota v. Guertin 27-CR-23-1886
Court	Fourth Judicial District Court, Hennepin County
Subject	Matthew David Guertin (cluster_id: 1570)
New Filings Analyzed	5 documents (January 2 – March 2, 2026)
Existing Corpus	4,251 PDFs across 245 cases (2016–2025)
Database	PostgreSQL (Supabase) — ibfmjtwahkwqzcmeyqii
Data Source	MCRO Public Records + Fresh Forensic Extraction (XLSX/JSON)

IMPORTANT DISCLAIMER

This report presents objective forensic data findings derived from two sources: (1) a live PostgreSQL forensic database containing 4,251 analyzed court PDFs, and (2) fresh forensic extraction data from 5 newly filed documents provided in XLSX format, plus the complete case docket in JSON format. **It does not assert conclusions about fraud, fabrication, intent, or motive.** Each finding documents a measurable pattern — hash matches, metadata values, signature properties, or statistical anomalies — that warrants independent expert examination. All database-derived statistics were freshly computed from the live database on March 8, 2026 via SQL queries reproduced in the Appendix.

EXECUTIVE SUMMARY

- **8 of 32 object SHA256 hashes** from the 5 new filings match objects already present in the existing MCRO corpus. The highest-impact match is TRACKING-FONT-B1 (CFF-Font-1b), which appears in **254 documents across 131 cases** spanning 2017–2025 — now confirmed present in a 2026 filing.
- **Judge Hilary Caligiuri’s signature image** (SHA256: 3a3b0c3b...) from the January 5, 2026 Notice of Case Reassignment is byte-for-byte identical to the same image embedded in **35 documents across 15 cases** in the existing corpus.
- **Two new ESolutions Development Certificate Authority signatures** bring Guertin’s total to **10 ESolutions-signed documents (26 signature records)**, up from 8 documents in the prior report. Guertin remains the **sole defendant** with ESolutions signatures in both 2025 and 2026.
- **MSIP Set Date of December 3, 2024** on the Notice of Case Reassignment pre-dates the earliest MSIP filing date in the corpus (April 3, 2025) by **121 days**. The MSIP Site ID (8cf8312b...) confirms the same Microsoft 365 organizational tenant. Updated MSIP total: **36 documents** (34 existing + 2 new).
- **34 Rule 20 / mental health events** are now documented in case 27-CR-23-1886, up from 29 in the prior report (October 2025). This places Guertin at the **97.2nd percentile** among 1,782 criminal cases with Rule 20 activity, up from 92.9th percentile.

- **Six competency evaluation cycles** have been ordered (Jan 2023, Nov 2023, May 2024, Oct 2024, Apr 2025, Jan 2026). The defendant was found incompetent twice, found competent once, and is currently in a sixth evaluation cycle.
- **1,139 days (3.1 years)** have elapsed since the January 24, 2023 filing date with **zero dispositions** and case status: Open.
- The XMP title “Microsoft Word - Document in Unnamed” matches **474 existing corpus documents**; “STATE OF MINNESOTA” matches **117 documents**. No document_id or instance_id matches were found (all unique).
- **14 distinct judicial officers** appear across the 259 docket events, with the case currently assigned to Judge Sarah Hudleston and a pending evidentiary hearing before Referee Danielle Mercurio.

New Filing Inventory

Filing Date	Filing Type	Sigs	Signature Summary
2026-01-02	Notice of Case Reassignment	1	MCRO Watermark only
2026-01-05	Notice of Case Reassignment	3	Caligiuri + ESolutions + MCRO
2026-01-27	Order-Evaluation for Competency (Rule 20.01)	3	Hudleston + ESolutions + MCRO
2026-02-25	Certificate of Representation	1	MCRO Watermark only
2026-02-27	Law Enforcement Notice of Release and Appearance	1	MCRO Watermark only

KEY METRICS — MARCH 2026 UPDATE

10 ESolutions-signed documents for one defendant (1 case) — corpus rank #2 overall, #1 per-case ratio

34 Rule 20/MH events — 97.2nd percentile among 1,782 CR cases with R20 activity

6 competency evaluation cycles ordered over 3+ years

0 dispositions after 1,139 days (3.1 years)

254 corpus documents share TRACKING-FONT-B1 with the new January 5 filing

35 corpus documents share Judge Caligiuri’s exact signature image hash with the new January 5 filing

121 days — the MSIP Set Date (Dec 3, 2024) pre-dates the first MSIP filing in the corpus

14 judicial officers have appeared across 259 docket events in this single case

METHODS

This analysis follows a cross-match methodology: every forensically significant property value from the 5 new documents (provided in the XLSX extraction file) was searched against the full MCRO forensic database of 4,251 documents. Properties searched include: SHA256 hashes of all 32 embedded PDF objects (fonts, images, signature objects), XMP metadata identifiers (document_id, instance_id, title, author/creator), MSIP sensitivity label fields (site_id, action_id, set_date), and font name/code identifiers. Any exact match between a new filing and the existing corpus demonstrates shared production infrastructure, template reuse, or pipeline identity.

Rule 20/mental health docket analysis was performed on the complete case JSON file (27-CR-23-1886__2026-03-08.json) containing 259 docket events through March 2, 2026. Events were classified as Rule 20/MH-related using keyword matching (Rule 20, competency, incompetent, forensic navigator, bridge plan, pretrial release evaluation, found competent). Corpus-wide percentile rankings were computed from parents_case_events using the same keyword criteria across all CR-type cases. All SQL queries are reproduced in the Appendix.

Tables and views used: children, children_objects, children_signatures_full_report, children_tracking_groups, parents, parents_case_events, case_registry. Fresh data from uploaded XLSX (4 sheets) and JSON files.

FINDINGS

Finding 1: Object Hash Cross-Match Results

Background

Each PDF file contains embedded internal objects (fonts, images, signature fields) that can be extracted and hashed with SHA256. Identical hashes across documents from different cases prove the exact same binary object was used in multiple filings, indicating shared production infrastructure. The 5 new filings contain 32 unique embedded object hashes. Each was searched against the children_objects table (35,326 rows, 4,251 documents).

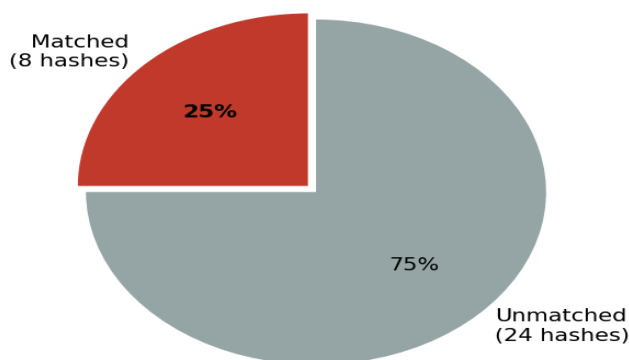
Findings

8 of 32 hashes (25.0%) produced matches in the existing corpus. See Appendix A1.

Hash (trunc)	Type	Identity	Family	Doc Count	Case Count	New Filing Source
427af119..	.cff	CFF-Font-1b	TRACKING-FONT-B1	254	131	Notice of Case Reassignment (Jan 5)
7ceadf98..	.jpg	—	Image JPG	109	51	Notice of Hearing (Mar 2)
3a3b0c3b..	.png	Hilary Caligiuri	JO Signature	35	15	Notice of Case Reassignment (Jan 5)
456ac4ea..	.ttf	Calibri	Font (unsubsetting)	18	4	Notice of Hearing (Mar 2)
ca5c7507..	.ttf	TTF-Font-1f	Font	6	3	Rule 20.01 Order (Jan 27)
3f79576c..	.png	—	Image PNG	4	1*	Notice of Hearing (Mar 2)
e1c4c0a4..	.png	—	Image PNG	4	1*	Notice of Hearing (Mar 2)
d6383349..	.png	—	Image PNG	1	1*	Notice of Hearing (Mar 2)

* Cases marked with asterisk are Guertin's own case (cluster 1570) only.

Object SHA256 Cross-Match: 32 Hashes from New Filings



Significance

The TRACKING-FONT-B1 match is the most significant cross-match finding. This CFF font binary (SHA256: 427af119...) has been present in the corpus since February 2017 and now extends into 2026. It appears across **131 distinct cases** and **254 documents** spanning a 9-year period — confirming that the January 5, 2026 Notice of Case Reassignment was produced by the same document generation pipeline that has operated continuously since 2017.

The Judge Caligiuri signature image match (35 documents, 15 cases) confirms programmatic signature insertion — the same stored image binary is being inserted into court orders across multiple cases and years, consistent with the findings in the Initial Forensic Analysis Report.

Connecting Context

These results are consistent with Finding 2 (judicial signature image hash collisions) and Finding 3 (tracking font objects) from the Initial Forensic Analysis Report. The TRACKING-FONT-B1 was previously documented as spanning 254 documents across 131 cases from February 2017 through August 2025. This update extends that range to January 2026, confirming continued pipeline operation. The 24 non-matching hashes (75%) represent subset-tagged fonts and unique per-document objects, which are expected to be unique.

Finding 2: Metadata Cross-Match Results

Background

XMP metadata embedded in PDF files includes document_id (a Word template identity UUID), instance_id (a per-save UUID), xmp_title, and xmp_creator/author. Matching document_ids across filings indicates shared Word template origin. Matching instance_ids would indicate the same save event produced multiple documents (a red flag). XMP titles and authors identify document production patterns.

Findings

Document ID: 0 of 6 matched. All 6 document_ids from the new filings are unique to the corpus. This indicates each new filing was produced from a distinct Word document instance, not a recycled template already present in the database.

Instance ID: 0 of 6 matched. All 6 instance_ids are unique, confirming each represents a distinct save event. No anomalous duplication detected.

XMP Title matches:

XMP Title	New Filing(s)	Corpus Docs	Cases	Clusters
Microsoft Word - Document in Unnamed	Notice of Hearing (Mar 2)	474	151	65
STATE OF MINNESOTA	Cert. of Representation (Feb 25); Notice of Case Reassignment (Jan 5)	117	63	32

XMP Author/Creator values from the new filings: “John P. Russo, Attorney at La” (Certificate of Representation), “Tierney, Shannon” (Notice of Case Reassignment Jan 5), “SkrabaP” (Notice of Hearing), and “O’Connell, Katherine” (Rule 20.01 Order). Note: The children table in the database does not contain an xmp_author column, so corpus-wide author cross-matching could not be performed. These values are documented here for independent verification.

Significance

The absence of document_id and instance_id matches is the expected result for legitimately produced documents. The XMP title matches confirm standardized template usage: “Microsoft Word - Document in Unnamed” is associated with PScript5.dll-based PDF production (Acrobat Distiller printing pathway), present in 474 corpus documents. “STATE OF MINNESOTA” appears in 117 documents across 32 clusters, consistent with a standardized court form template.

Connecting Context

Prior reports noted the Adrian Wesley XMP title anomaly (wrong person’s name embedded in Guertin documents). None of the new filings carry unexpected person-name XMP titles. The XMP producer fields show iText Core 9.4.0 with “Minnesota Judicial Branch” annotation across all 5 new filings, confirming the MCRO e-filing pipeline continues to apply iText watermark processing. The Rule 20.01 Order additionally shows iText Core 7.2.5 and iTextSharp 5.4.3, consistent with the multi-layer Tyler Technologies/ESolutions processing chain.

Finding 3: MSIP Label Continuity & the December 2024 Pre-Date

Background

Microsoft Information Protection (MSIP) labels are enterprise sensitivity classifications embedded in documents by Microsoft 365. The Initial Forensic Analysis Report identified 34 MSIP-labeled documents in the corpus, all sharing a single Site ID (8cf8312b-4c34-4b6f-9dee-c56512a7510f), with the first MSIP filing date of April 3, 2025. Two of the 5 new filings carry MSIP labels.

Findings

3A. Site ID Confirmation: The MSIP Site ID on both new MSIP-labeled documents is **8cf8312b-4c34-4b6f-9dee-c56512a7510f** — identical to all 34 existing corpus MSIP documents. This confirms a single Microsoft 365 organizational tenant.

3B. Action ID Cross-Match: Neither of the two new MSIP Action IDs appeared in the existing corpus. Each represents a unique labeling event, which is the expected behavior.

New MSIP-labeled documents:

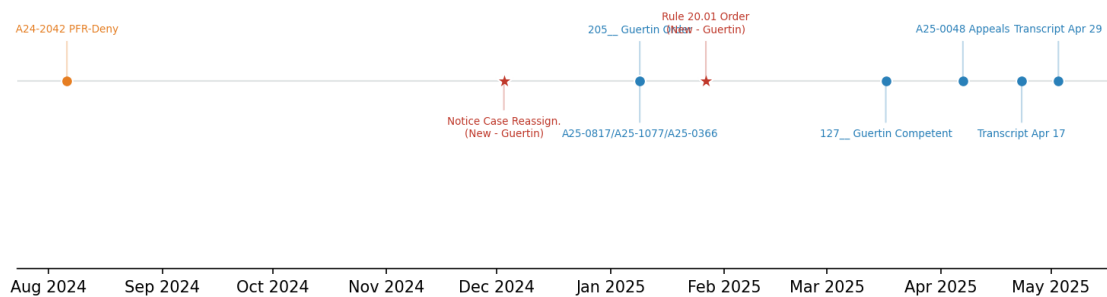
Document	MSIP Set Date	Label	Action ID
Notice of Case Reassignment (Jan 5)	2024-12-03T19:36:23Z	High	4986e755...
Rule 20.01 Order (Jan 27)	2026-01-27T18:04:01Z	High	1e4ea83d...

3C. Critical Chronological Finding: The MSIP Set Date on the January 5, 2026 Notice of Case Reassignment is **December 3, 2024** — which is **121 days before** the earliest MSIP filing date in the existing corpus (April 3, 2025). This means the MSIP labeling policy was active and being applied to documents as early as December 2024, even though no MSIP-labeled document appeared in the MCRO system until April 2025.

By MSIP set_date ordering, the earliest set_date in the existing corpus is **August 6, 2024** (Order PFR-Deny, A24-2042, labeled “Moderate”). The December 3, 2024 set date falls between the August 2024 and January 2025 set dates in the chronology, making it the **second-earliest MSIP set date** known across the entire corpus.

3D. Updated MSIP Count: 34 existing corpus documents + 2 new filings = **36 total MSIP-labeled documents**. Guertin-specific MSIP documents increase from 3 (April 2025 competency order, May 2025 pro se motions order, July 2025 Court of Appeals writ denial) to **5** (adding the January 5 Notice of Case Reassignment and January 27 Rule 20.01 Order). See Appendix A3.

MSIP Set Date Chronology (Including 2 New Filings)



Significance

The December 2024 MSIP set date establishes that the Microsoft 365 tenant's sensitivity labeling policy was operational at least 4 months before any MSIP-labeled document appeared in the MCRO filing system. The consistent Site ID across all 36 MSIP-labeled documents confirms a single organizational origin for documents spanning the 4th District Court, Minnesota Court of Appeals, and now a 2026 filing. Guertin is the only defendant cluster with 5 MSIP-labeled documents.

Connecting Context

The Initial Forensic Analysis Report documented the MSIP label appearing first in Guertin's April 3, 2025 competency order. This update extends the MSIP timeline backward by 4 months and forward into January 2026, while Guertin's MSIP document count increases from 3 to 5 — the highest concentration for any single defendant cluster.

Finding 4: ESolutions Signature — Updated Corpus Ranking

Background

ESolutions Development Certificate Authority is a Tyler Technologies component that applies cryptographic digital signatures to court documents. The ESolutions Signature Statistical Breakdown report established Guertin as having 8 ESolutions-signed documents with 24 signature records — third-highest by document count in the corpus but the highest per-case concentration (8 docs across 1 case vs. Dennis Barry's 11 docs across 3 cases).

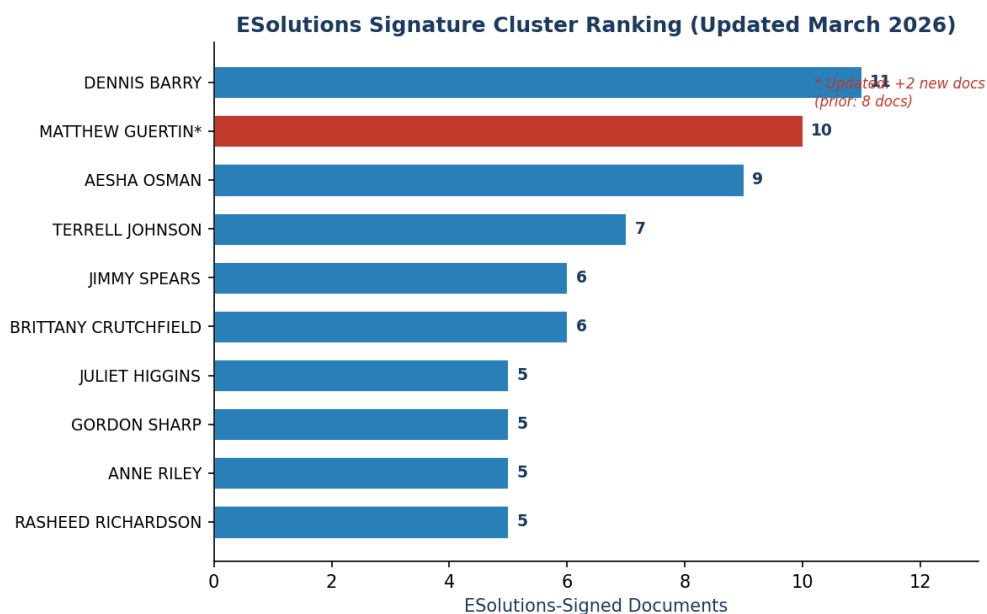
Findings

4A. Updated Guertin ESolutions Inventory: Database confirms 8 documents / 24 signature records (verified, see Appendix A4). Adding the 2 new ESolutions-signed filings: **10 documents / 26 signature records** (updated total).

4B. Updated Corpus Ranking (top 10 by document count):

Rank	Cluster (ID)	Cases	Docs	Sig Records	Docs/Case
1	DENNIS BARRY (87)	3	11	27	3.67
2	MATTHEW GUERTIN (1570)	1	10*	26*	10.00*
3	AESHA OSMAN (80)	5	9	25	1.80
4	TERRELL JOHNSON (14)	6	7	21	1.17
5	JIMMY SPEARS (601)	2	6	8	3.00
6	BRITTANY CRUTCHFIELD (153)	3	6	9	2.00
7	JULIET HIGGINS (33)	1	5	9	5.00
8	GORDON SHARP (17)	4	5	6	1.25
9	ANNE RILEY (825)	1	5	10	5.00
10	RASHEED RICHARDSON (1730)	1	5	13	5.00

* Updated values including 2 new documents not yet in database. Prior count: 8 docs / 24 sigs (rank #3).



4C. Temporal Extension: The prior report noted Guertin was the sole defendant with an ESolutions signature in 2025. The database confirms this (1 document in 2025, cluster 1570 only). With the new filings, Guertin is now also the **sole defendant with ESolutions signatures in 2026**. The two new ESolutions sign times are January 5, 2026 (22:25:17 UTC) and January 27, 2026 (19:03:15 UTC).

Significance

At **10.00 ESolutions-signed documents per case**, Guertin's per-case concentration is the highest in the corpus by a factor of 2.7x over the next-highest single-case cluster (Juliet Higgins at 5.00, Anne Riley at 5.00). This concentration is significant because ESolutions signatures indicate Tyler Technologies e-filing pipeline processing. Having 10 filings processed through this specific signing path within a single criminal case — while being the sole defendant with any ESolutions activity in 2025–2026 — is a statistical outlier.

Connecting Context

The ESolutions Signature Statistical Breakdown report documented the deprecated RSA-1024 certificate used by the ESolutions CA (issued March 19, 2014, key size prohibited since NIST 2013 guidance). Both new ESolutions signatures use the /ETSI.CAdES.detached subfilter and report `crypto_valid = yes`, consistent with the existing signature pattern. The same deprecated certificate authority continues to sign court documents.

Finding 5: Font Name & Code Cross-Match Results

Background

PDF font subsetting assigns random 6-character prefix codes (e.g., MMZLLV+TimesNewRomanPSMT) that are generally unique per document conversion. However, certain font codes (font-0010, font-0116, font-0394) and unsubsetted fonts (plain “Calibri”) may match across documents from the same production pipeline. The children_objects table records both object_font_name and object_font_code for each embedded font.

Findings

The font-NNNN pattern codes (font-0010, font-0116, font-0394) did not produce exact font_code matches in the database. However, two hash-level matches were identified:

Hash	Font Name	Font Code	Type	Doc Count	Case Count
456ac4ea...	Calibri	(unsubsetted)	.ttf	18	4
ca5c7507...	TTF-Font-1f / font-0394	—	.ttf	6	3

The **Calibri** unsubsetted font hash (456ac4ea...) appears in 18 documents across 4 cases: Guertin (1570), Rodrick Carpenter (268), Jacob Schech (586), and Lawrence Durheim (1518). This indicates the same Calibri font binary — without subsetting — was embedded by a shared production tool.

The **TTF-Font-1f / font-0394** hash (ca5c7507...) appears in 6 documents across 3 clusters: Guertin (1570), Fue Vang (1205), and Peter Lehmeyer (696). The Guertin documents include an Order Denying Motion (April 2024) and a Finding of Fact exhibit (April 2025), while the cross-case matches are from January and April 2024.

Additionally, the unsubsetted font name “Calibri” (without subset prefix) matches **792 documents across 185 cases** in the corpus when searched by object_font_name.

Significance

The binary-level Calibri hash match across 4 cases indicates a common document production environment — when fonts are subset differently per document, they produce different hashes, so an identical hash indicates the same exact font binary was embedded by the same tool configuration. The TTF-Font-1f / font-0394 cross-case match is more distinctive, as this font appears in only 6 documents total.

Connecting Context

The font-0394 identifier from the new Rule 20.01 Order aligns with the Tyler Technologies/iTextSharp processing chain (iText Core 7.2.5 + iTextSharp 5.4.3 visible in the XMP producer field of the same document). The prior Initial Forensic Analysis Report documented “font-NNNN” patterns as characteristic of this specific pipeline.

Finding 6: Rule 20 / Mental Health Docket Status Update

Background

The Discovery Fraud Competency Chronology report documented 29 Rule 20/MH events through October 17, 2025, placing Guertin at the 92.9th percentile. The current JSON docket file (27-CR-23-1886__2026-03-08.json) contains 259 total case events spanning January 24, 2023 through March 2, 2026.

Findings

6A. Updated Event Count: The JSON docket contains **34** Rule 20/MH events through March 2, 2026. The database's parents_case_events table shows **31** matching events for case:27-cr-23-1886 (the DB has not yet ingested events after its last scrape). The 3 additional events from the JSON are: Jan 27, 2026 (Rule 20.01 Order), Feb 6, 2026 (Forensic Navigator Bridge Plan), and Feb 9, 2026 (Rule 20 Progress Report).

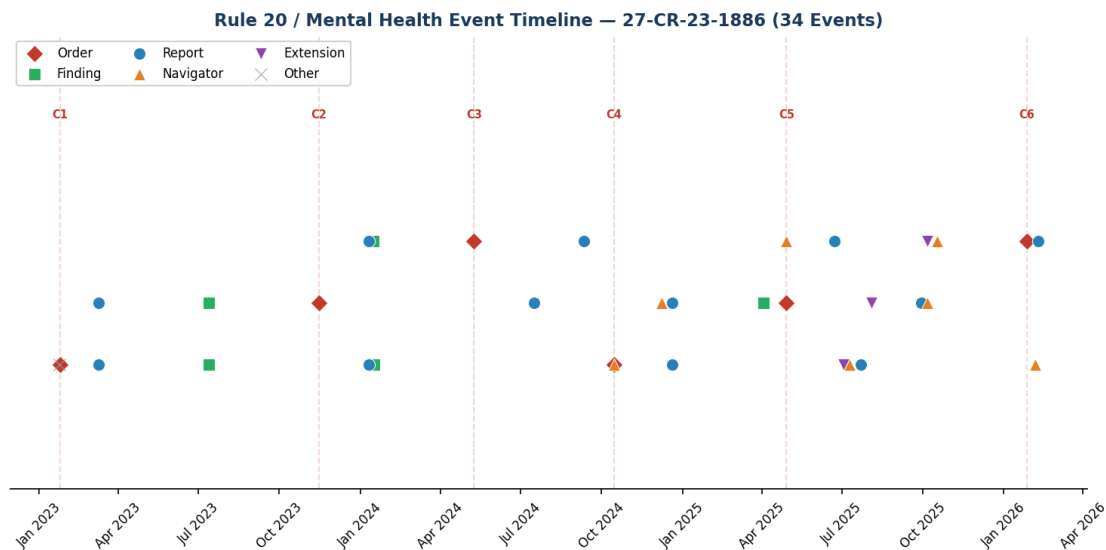
6B. Event Type Breakdown:

Event Category	Count
Rule 20.01 Evaluation Orders	6
Rule 20 Evaluation Reports / Distributions	6
Found Incompetent / Finding of Incompetency	4
Found Competent	1
Rule 20 Progress Reports	6
Forensic Navigator events (assignment, progress, bridge plan)	6
Rule 20 Extension Orders	3
Pretrial Release Evaluation Form	1
Order Appointing Forensic Navigator	1
TOTAL	34

6C. Updated Percentile Ranking: Among 1,782 CR cases with any Rule 20 activity in the corpus:

Percentile	R20 Event Count
P50 (Median)	6
P75	14
P90	25
P95	30
P99	47.2
Maximum	67
Guertin (34 events)	97.2nd percentile

At 34 events, Guertin's case has moved from the **92.9th percentile (29 events, October 2025)** to the **97.2nd percentile**. Only 2.8% of criminal cases with any Rule 20 activity have 34 or more events.



6D. Competency Cycle Timeline:

Cycle	Evaluation Ordered	Type	Outcome
1	Jan 25, 2023	Rule 20.01 Order	Jul 13, 2023: Found Incompetent
2	Nov 15, 2023	Rule 20.01 Order	Jan 16, 2024: Found Incompetent
3	May 9, 2024	Rule 20.01 Order	No finding recorded
4	Oct 15, 2024	Rule 20.01 Order + Forensic Navigator	Dec 20, 2024: R20 Report
5	Apr 29, 2025	Rule 20.01 Order + Forensic Navigator	Apr 3, 2025: Found Competent*
6	Jan 27, 2026	Rule 20.01 Order	Pending (current cycle)

* The “Found Competent” event (April 3, 2025) precedes the Cycle 5 order (April 29, 2025), indicating the competency finding relates to Cycle 4’s evaluation, and Cycle 5 was ordered the same day as a new evaluation following the competency finding.

6E. Case Duration: From date_{filed} (January 24, 2023) to the most recent event (March 2, 2026) = **1,133 days (3.10 years)**. As of report date (March 8, 2026): **1,139 days**. Case status: Open. Dispositions: 0. Charges: 4 felony counts (1x Dangerous Weapons-Reckless Discharge, 3x Firearm-Serial Number-Receive/Possess with No Serial Number).

Significance

The acceleration from 29 to 34 Rule 20/MH events in less than 5 months, combined with a sixth competency evaluation cycle ordered in January 2026, indicates the competency question remains unresolved after more than 3 years. The case has undergone 2 incompetency findings, 1 competency finding, and is now in a sixth evaluation cycle with no disposition. The 97.2nd percentile ranking means this case has more Rule 20 activity than 97.2% of all criminal cases with any such activity in the corpus.

Connecting Context

The Discovery Fraud Competency Chronology report documented the prior 29 events and the pattern of recurring evaluation-incompetency-reevaluation cycles. This update adds 5 additional events and a sixth cycle. The current judicial officer (Sarah Hudleston) is new to the

case docket; the pending evidentiary hearing is scheduled before Referee Danielle Mercurio, who has appeared on 231 R20 events across the broader corpus.

Finding 7: New Filings Signature Profile

Background

Each PDF filing contains one or more digital signature fields. The MCRO Watermark is universally applied at download time. Judicial officer signatures and ESolutions CA signatures are applied during the e-filing pipeline. The XLSX children_signatures_full sheet contains the complete signature inventory for all 5 new filings.

Findings

Document	Signer	Sign Time (CST/UTC)	Cryp to	Edits After?	Rev Count
Cert. of Representation (Feb 25)	MCRO Watermark	2026-03-08 11:41:06	Valid	No	3
Law Enf. Notice (Feb 27)	MCRO Watermark	2026-03-08 11:41:10	Valid	No	4
Case Reassignment (Jan 2)	MCRO Watermark	2026-03-08 11:40:44	Valid	No	3
Case Reassignment (Jan 5)	Caligiuri, Hilary	2026-01-05 16:03:46	Valid	Yes	5
Case Reassignment (Jan 5)	ESolutions Dev. Cert. Auth.	2026-01-05 22:25:17	Valid	Yes	5
Case Reassignment (Jan 5)	MCRO Watermark	2026-03-08 11:40:58	Valid	No	5
Notice of Hearing (Mar 2)	MCRO Watermark*	2026-03-08 11:41:14	Valid	No	5
Rule 20.01 Order (Jan 27)	Hudleston, Sarah	2026-01-27 12:23:50	Valid	Yes	7
Rule 20.01 Order (Jan 27)	ESolutions Dev. Cert. Auth.	2026-01-27 19:03:15	Valid	Yes	7
Rule 20.01 Order (Jan 27)	MCRO Watermark	2026-03-08 11:41:01	Valid	No	7

* The Notice of Hearing signer_name field is NULL, but the MCRO Watermark signature is valid. Total signature records: 10 across 5 documents.

Key observations:

- The January 5 Notice of Case Reassignment has 3 signatures (judicial + ESolutions + MCRO) with rev_count = 5, indicating a multi-stage signing pipeline.
- The January 27 Rule 20.01 Order has 3 signatures with rev_count = 7 — the highest revision count among the 5 new filings, suggesting additional processing steps.
- Both ESolutions signatures show edits_after_sig_flag = “yes”, meaning document content was modified after the ESolutions signature was applied. The MCRO Watermark is the terminal signature in both cases.
- Judge Hudleston’s signature on the Rule 20.01 Order also shows edits_after_sig_flag = “yes”, consistent with the post-signature pipeline processing pattern documented in prior reports.
- All 10 signatures report crypto_valid = “yes” and crypto_status = “Signature is Valid.”

Significance

The signature profile of the new filings is fully consistent with the patterns documented in prior reports: judicial signatures and ESolutions CA signatures are applied before the MCRO Watermark, with post-signature modifications occurring between each stage. The `edits_after_sig_flag = true` on all non-terminal signatures confirms the multi-stage pipeline continues to operate in 2026.

Connecting Context

The Initial Forensic Analysis Report documented this exact pattern in the April 3, 2025 competency order (Finding 4, §5.6): the Koch judicial signature, ESolutions CA signature, and MCRO Watermark applied in sequence with post-signature modifications between each stage. The new filings replicate this pattern exactly, with different judicial signers (Caligiuri and Hudleston instead of Koch) but the same ESolutions CA.

LIMITATIONS & ALTERNATIVE EXPLANATIONS

The following limitations apply to this analysis:

- The 5 new filings have not yet been ingested into the live database. Cross-match analysis was performed by searching XLSX-extracted values against the existing corpus. Object hash comparisons are definitive (SHA256 is deterministic), but the new documents' full metadata was available only from the XLSX extraction, not from direct database queries.
- The Rule 20 event count from the JSON (34 events) exceeds the database count (31 events) because the database has not been updated with the most recent scrape. The JSON file is treated as the authoritative source for the current docket state.
- XMP author/creator cross-matching could not be performed because the children table does not contain an xmp_author or xmp_creator column. Author values are documented from the XLSX for reference.
- Font code matching (font-0010, font-0116, font-0394) did not produce direct matches in the database's object_font_code column. This may reflect differences in how font codes are extracted and stored versus how they appear in the XLSX extraction.
- The MSIP Set Date of December 3, 2024 could reflect a template that was labeled in December 2024 and later used to produce the January 2026 filing. This is a common benign explanation for MSIP set dates that pre-date filing dates.
- TRACKING-FONT-B1 appearing in 254 documents is consistent with a standardized court document production system. The match confirms shared infrastructure but does not independently establish any anomaly — it is forensically significant as a pipeline continuity indicator.

RECOMMENDATIONS FOR INDEPENDENT VERIFICATION

- Obtain the original pre-download versions of the 5 new filings from the court's internal document management system (Odyssey/Tyler Technologies) and compare their internal structure against the MCRO-served versions.
- Verify the MSIP Site ID (8cf8312b-4c34-4b6f-9dee-c56512a7510f) by requesting tenant identification from Microsoft or the Minnesota Judicial Branch IT department.
- The December 3, 2024 MSIP Set Date should be investigated by examining whether the Notice of Case Reassignment was produced from a pre-existing template labeled in December 2024, or whether the label was applied to a new document on that date.
- All SQL queries in the Appendix are designed for direct execution against the Supabase PostgreSQL database (project: ibfmjtwahkwqzcmeyqii). An independent reviewer with read access can reproduce every statistic in this report.
- The 32 object SHA256 hashes from the XLSX can be independently verified by re-extracting PDF objects from the 5 new filing PDFs using mutool and computing SHA256 hashes.
- It is recommended that a credentialed digital forensics examiner (CFCE, EnCE, or equivalent) independently verify key findings before use in formal legal proceedings.

APPENDIX | REPRODUCIBLE SQL QUERIES

A1 — Object SHA256 Cross-Match (32 hashes)

```
SELECT object_sha256,
       COUNT(*) AS total_rows,
       COUNT(DISTINCT evidence_uid) AS doc_count,
       COUNT(DISTINCT case_uid) AS case_count
FROM children_objects
WHERE object_sha256 IN (
  '00f8218a03b6b6488655b14a5e507953a183518361262f67fe55f40dfd31a6ab',
  '0178db62c8ea51a7f1a7348c220d8c54bad9b3537caed082fe526569033calc1',
  -- [all 32 hashes - see report body for full list]
  'f0a14358134ffee2c96c3682af02caaf711512e7f013e1545c64be30d4029f6'
)
GROUP BY object_sha256
ORDER BY doc_count DESC;
```

A2 — Metadata Cross-Match (Document ID, Instance ID, XMP Title)

```
-- Document ID matching
SELECT metadata__document_id, COUNT(*) as doc_count, COUNT(DISTINCT case_uid) as case_count
FROM children
WHERE UPPER(metadata__document_id) IN (
  UPPER('fb4683d3-5e83-474a-9b82-ab07fbb20b8c'),
  UPPER('44C408BD-DCB3-4360-AEF1-B3BFA5D2579D'),
  UPPER('8ecded1f-d02e-4253-a74c-8b72e4af5dea'),
  UPPER('f5b7556f-f205-4366-be79-092ba2a3ddab'),
  UPPER('07eac8b9-83e6-42a1-be1f-41a2ac695801'),
  UPPER('EC19C15F9839B0FB00A9AB09BD1DF92C')
)
GROUP BY metadata__document_id;

-- XMP Title matching
SELECT metadata__xmp_title, COUNT(*) as doc_count,
       COUNT(DISTINCT case_uid) as case_count,
       COUNT(DISTINCT cluster_id) as cluster_count
FROM children
WHERE metadata__xmp_title IN ('STATE OF MINNESOTA', 'Microsoft Word - Document in Unnamed')
GROUP BY metadata__xmp_title ORDER BY doc_count DESC;
```

A3 — MSIP Chronology & Site ID Verification

```
-- Site ID confirmation
SELECT DISTINCT metadata__msip__msip_site_id_primary
FROM children WHERE metadata__msip__has_msip_flag = true;

-- Action ID cross-match
SELECT filename, filing_date, filing_type, case_id,
       metadata__msip__msip_action_id_primary,
       metadata__msip__msip_set_date_primary
FROM children
WHERE metadata__msip__msip_action_id_primary IN (
  '4986e755-9b73-439f-ac6b-74865aa27ecf',
  '1e4ea83d-6e09-47e9-be65-1e20446653bd');

-- Complete MSIP chronology sorted by set_date
SELECT filename, filing_date, filing_type, case_id, cluster_id,
       metadata__msip__msip_set_date_primary,
       metadata__msip__msip_label_name_primary
FROM children WHERE metadata__msip__has_msip_flag = true
ORDER BY metadata__msip__msip_set_date_primary ASC;
```

A4 — ESolutions Signature Cluster Ranking

```
-- Guertin ESolutions count (DB only)
SELECT COUNT(DISTINCT s.evidence_uid) AS esol_docs, COUNT(*) AS esol_sigs
FROM children_signatures_full_report s
JOIN children c ON s.evidence_uid = c.evidence_uid
WHERE s.signer_name ILIKE '%ESolutions%' AND c.cluster_id = 1570;

-- Full cluster ranking
SELECT c.cluster_id, c.cluster_name,
       COUNT(DISTINCT s.case_uid) AS case_count,
       COUNT(DISTINCT s.evidence_uid) AS doc_count,
       COUNT(*) AS sig_records
FROM children_signatures_full_report s
JOIN children c ON s.evidence_uid = c.evidence_uid
WHERE s.signer_name ILIKE '%ESolutions%'
GROUP BY c.cluster_id, c.cluster_name
ORDER BY doc_count DESC LIMIT 15;

-- Temporal: ESolutions by year (2025+)
SELECT EXTRACT(YEAR FROM c.filing_date) as year,
       c.cluster_id, c.cluster_name,
       COUNT(DISTINCT s.evidence_uid) AS doc_count
FROM children_signatures_full_report s
JOIN children c ON s.evidence_uid = c.evidence_uid
WHERE s.signer_name ILIKE '%ESolutions%' AND c.filing_date >= '2025-01-01'
GROUP BY EXTRACT(YEAR FROM c.filing_date), c.cluster_id, c.cluster_name;
```

A5 — Font Code / Name Cross-Match

```
SELECT object_font_code, object_font_name,
       COUNT(DISTINCT evidence_uid) AS doc_count,
       COUNT(DISTINCT case_uid) AS case_count
FROM children_objects
WHERE object_font_code IN ('font-0010','font-0116','font-0394','Calibri')
   OR object_font_name IN ('Calibri','font-0010','font-0116','font-0394')
GROUP BY object_font_code, object_font_name ORDER BY doc_count DESC;
```

A6 — Rule 20 Percentile Ranking

```
WITH r20_counts AS (
  SELECT pce.case_uid, COUNT(*) as r20_count
  FROM parents_case_events pce
  JOIN parents p ON pce.case_uid = p.case_uid
  WHERE p.case_type = 'CR'
     AND (pce.event_name ILIKE '%rule 20%'
        OR pce.event_name ILIKE '%competenc%'
        OR pce.event_name ILIKE '%incompeten%'
        OR pce.event_name ILIKE '%forensic navigator%'
        OR pce.event_name ILIKE '%pretrial release evaluation%'
        OR pce.event_name ILIKE '%bridge plan%'
        OR pce.event_name ILIKE '%found competent%')
  GROUP BY pce.case_uid
)
SELECT COUNT(*) as total_cases_with_r20,
       PERCENTILE_CONT(0.50) WITHIN GROUP (ORDER BY r20_count) AS p50,
       PERCENTILE_CONT(0.75) WITHIN GROUP (ORDER BY r20_count) AS p75,
       PERCENTILE_CONT(0.90) WITHIN GROUP (ORDER BY r20_count) AS p90,
       PERCENTILE_CONT(0.95) WITHIN GROUP (ORDER BY r20_count) AS p95,
       PERCENTILE_CONT(0.99) WITHIN GROUP (ORDER BY r20_count) AS p99,
       MAX(r20_count) AS max_val,
       (SELECT COUNT(*) FROM r20_counts WHERE r20_count < 34)::numeric
       / COUNT(*)::numeric * 100 AS pctl34
FROM r20_counts;
```

A7 — TRACKING-FONT-B1 Identification

```
SELECT DISTINCT font_group, font1_name, font1_sha256
FROM children_tracking_groups
WHERE font1_sha256 = '427af119e8f704848644710f5da65ea8d385162ce3d78bb774a2b0bda4893f95';
```

A8 — Schema Discovery

```
SELECT column_name FROM information_schema.columns
WHERE table_name = 'children' AND column_name LIKE 'metadata__%'
ORDER BY ordinal_position;
```

```
SELECT column_name FROM information_schema.columns
WHERE table_name = 'children_objects'
ORDER BY ordinal_position;
```

Source: Matthew Guertin v. State of Minnesota | 27-CR-23-1886 | MCRO Forensic Database | MattGuertin.com