

SIMULATED SAMPLE / INTERNAL BENCHMARK - NOT CUSTOMER RESULTS

TX-DAL-0471

Customer-ready closeout package

3-sector macro-site 5G modernization

Contractor	Iron Ridge Wireless LLC
Fictional end customer	Northstar Mobile Networks
Market	Dallas-Fort Worth, Texas
Work order	IRW-DFW-260812-17
Package revision	R1 - simulated delivery
Prepared by	CutClose managed closeout operations

Finish construction. We'll finish the closeout.

This original sample demonstrates how CutClose inventories raw evidence, converts a customer requirement set into trackable rows, finds gaps, manages a correction round, assembles the closeout and performs an independent final QA.

Use and limitations

SIMULATED SAMPLE / INTERNAL BENCHMARK - NOT CUSTOMER RESULTS

This package uses fictional organizations, a fictional customer requirement set and mock field evidence. It is not historical customer work and does not claim carrier approval, customer acceptance, engineering certification or technical authority.

CutClose verifies	File presence, identity, readability, consistency, requirement mapping, package organization and revision status.
CutClose escalates	Conflicts that require field, construction, RF, engineering or customer authority.
CutClose does not certify	Engineering design, installed-work compliance, test acceptance limits or carrier acceptance.
Customer-specific rules	The Northstar requirements in this package exist only for this benchmark. They are not universal carrier standards.

Closeout summary

RAW FILES 118 Inventoried	REQUIREMENTS 64 Tracked	SEEDED DEFECTS 18 Found before delivery	OPEN ITEMS 0 After revision
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Structured pass	17 of 18 seeded deficiencies detected
Independent final QA	1 additional seeded deficiency detected
False positives	1 initially flagged, then cleared by human QA
Classification	116/118 initially correct; 118/118 after human review
Human verification	24 targeted tasks
Revision cycle	1 simulated contractor correction round

No time-savings claim

The workflow was not compared against a trained manual operator on an equivalent unseen file set, so this package does not report a time-saving percentage.

Package index

01 - Site administration	Site record, work order, RFDS, MOP and checklist
02 - Overall photos	Pre/post site overview evidence
03 - Alpha sector	Equipment, serial, label and route evidence
04 - Beta sector	Equipment, serial, label and route evidence
05 - Gamma sector	Equipment, serial, label and route evidence
06 - Grounding and power	Bonding, labels, power panel and voltage evidence
07 - Test reports	PIM, sweep, fiber, alignment and commissioning
08 - As-builts and punch	Rev C as-built, redlines and punch closure
09 - Final QA	Requirement reconciliation and independent review

Requirement coverage

ID	Requirement	Basis	Final
ADM01	Signed work order identifies site and scope	Project-specific scope	Complete
ADM02	Site record shows exact Site ID, market and address	Fictional Northstar customer rule	Complete
ADM03	Current RF design data sheet is included	General industry convention	Complete
ADM04	Approved method of procedure is included	General industry convention	Complete
ADM05	Contractor and crew record is included	Fictional Northstar customer rule	Complete
ADM06	Northstar requirement checklist is included	Fictional Northstar customer rule	Complete
ADM07	Field completion record identifies completion date	Project-specific scope	Complete
ADM08	Incoming transmittal or upload manifest is included	General industry convention	Complete
OV01	Pre-construction overall compound overview	Fictional Northstar customer rule	Complete
OV02	Post-construction compound south overview	Fictional Northstar customer rule	Complete
OV03	Post-construction compound east overview	Fictional Northstar customer rule	Complete
OV04	Post-construction compound west overview	Fictional Northstar customer rule	Complete
OV05	Post-construction compound north overview	Fictional Northstar customer rule	Complete
OV06	Final tower and lease-area context	General industry convention	Complete
A01	Alpha: Full sector overview from face	Fictional Northstar customer rule	Complete
A02	Alpha: Sector identification is visible and correct	Fictional Northstar customer rule	Complete

ID	Requirement	Basis	Final
A03	Alpha: Antenna orientation evidence agrees with alignment record	Project-specific scope	Complete
A04	Alpha: Antenna installation and mounting hardware are visible	General industry convention	Complete
A05	Alpha: Antenna model and serial are legible	General industry convention	Complete
A06	Alpha: RRU model and serial are legible	General industry convention	Complete
A07	Alpha: RRU mounting and cable connections are visible	General industry convention	Complete
A08	Alpha: Cable labels map to the correct sector and equipment	Fictional Northstar customer rule	Complete
A09	Alpha: Fiber and power routing are visible at the sector	General industry convention	Complete
A10	Alpha: Weatherproofing and final workmanship are visible	Fictional Northstar customer rule	Complete
B01	Beta: Full sector overview from face	Fictional Northstar customer rule	Complete
B02	Beta: Sector identification is visible and correct	Fictional Northstar customer rule	Complete
B03	Beta: Antenna orientation evidence agrees with alignment record	Project-specific scope	Complete
B04	Beta: Antenna installation and mounting hardware are visible	General industry convention	Complete
B05	Beta: Antenna model and serial are legible	General industry convention	Complete
B06	Beta: RRU model and serial are legible	General industry convention	Complete
B07	Beta: RRU mounting and cable connections are visible	General industry convention	Complete
B08	Beta: Cable labels map to the correct sector and equipment	Fictional Northstar customer rule	Complete

ID	Requirement	Basis	Final
B09	Beta: Fiber and power routing are visible at the sector	General industry convention	Complete
B10	Beta: Weatherproofing and final workmanship are visible	Fictional Northstar customer rule	Complete
C01	Gamma: Full sector overview from face	Fictional Northstar customer rule	Complete
C02	Gamma: Sector identification is visible and correct	Fictional Northstar customer rule	Complete
C03	Gamma: Antenna orientation evidence agrees with alignment record	Project-specific scope	Complete
C04	Gamma: Antenna installation and mounting hardware are visible	General industry convention	Complete
C05	Gamma: Antenna model and serial are legible	General industry convention	Complete
C06	Gamma: RRU model and serial are legible	General industry convention	Complete
C07	Gamma: RRU mounting and cable connections are visible	General industry convention	Complete
C08	Gamma: Cable labels map to the correct sector and equipment	Fictional Northstar customer rule	Complete
C09	Gamma: Fiber and power routing are visible at the sector	General industry convention	Complete
C10	Gamma: Weatherproofing and final workmanship are visible	Fictional Northstar customer rule	Complete
GR01	Master ground bar overview is included	General industry convention	Complete
GR02	Tower base grounding connection is visible	General industry convention	Complete
GR03	Equipment cabinet bond is visible	General industry convention	Complete
GR04	RRU bonding detail shows lug, conductor and attachment point	Fictional Northstar customer rule	Complete

ID	Requirement	Basis	Final
GR05	Each sector has distinct grounding evidence	Fictional Northstar customer rule	Complete
GR06	Cable entrance ground kit and route are visible	General industry convention	Complete
GR07	Grounding labels are legible	Fictional Northstar customer rule	Complete
GR08	Power panel, breaker and voltage reading evidence are included	Fictional Northstar customer rule	Complete
TS01	Final PIM report is present for all applicable sectors	Project-specific scope	Complete
TS02	Final line sweep report is present for all applicable sectors	Project-specific scope	Complete
TS03	Fiber OTDR report is present and readable	Project-specific scope	Complete
TS04	Fiber optical power results are included	Project-specific scope	Complete
TS05	Antenna alignment report covers all sectors	Project-specific scope	Complete
TS06	Commissioning and power-up record is included	General industry convention	Complete
DOC01	Field redlines are included and legible	General industry convention	Complete
DOC02	As-built drawing matches required revision	Fictional Northstar customer rule	Complete
DOC03	Equipment and serial register reconciles to photo evidence	Project-specific scope	Complete
DOC04	Punch list items include closure evidence	Fictional Northstar customer rule	Complete
DOC05	Completion dates agree across package records	Fictional Northstar customer rule	Complete
DOC06	Final customer checklist reconciles every requirement	Fictional Northstar customer rule	Complete

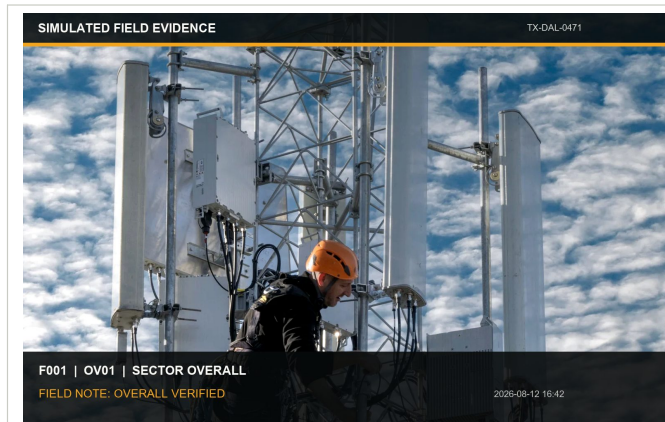
Deficiency and correction record

ID	Finding	Detected by	Result
D01	Post-construction north compound overview was not received.	Structured coverage check	Resolved R1
D02	Gamma RRU serial photo was not received.	Structured coverage check	Resolved R1
D03	Beta sector identification image is stamped Alpha.	Visual classification + human verification	Resolved R1
D04	Alpha antenna serial is blurred and cannot be confirmed.	Image readability check + human verification	Resolved R1
D05	Beta RRU serial in register does not match the photo.	Cross-document reconciliation	Resolved R1
D06	Gamma PIM report identifies TX-DAL-0477 instead of TX-DAL-0471.	Document metadata check	Resolved R1
D07	As-built file is Rev B; Northstar benchmark rule requires Rev C.	Revision check	Resolved R1
D08	Gamma final line sweep report was not received.	Structured coverage check	Resolved R1
D09	The same grounding photo was assigned to Alpha and Beta.	Duplicate/hash review	Resolved R1

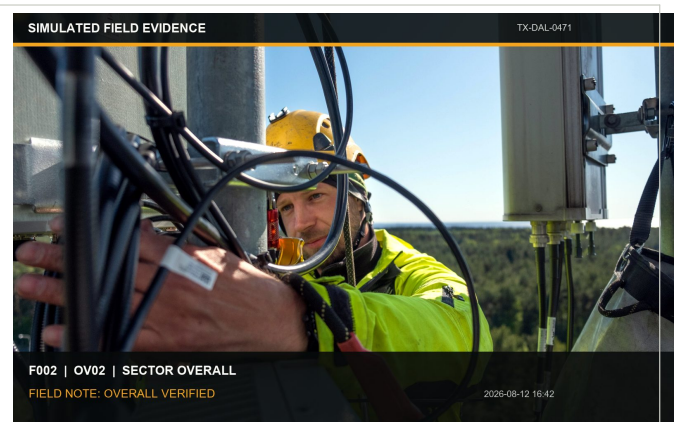
ID	Finding	Detected by	Result
D10	Fiber OTDR PDF cannot be opened.	File integrity check	Resolved R1
D11	RRU bond image does not show the attachment point.	Human visual verification	Resolved R1
D12	Gamma antenna model tag conflicts with the equipment schedule.	Cross-document reconciliation	Resolved R1
D13	Completion checklist and daily log show different completion dates.	Cross-document reconciliation	Resolved R1
D14	Filename says Alpha; embedded field note identifies Beta.	Metadata reconciliation	Resolved R1
D15	Grounding label is cropped and not fully legible.	Image readability check + human verification	Resolved R1
D16	Punch item 3 is marked closed without a closure image.	Closure evidence check	Resolved R1
D17	Beta fiber label shows the Gamma sector identifier.	Human visual verification	Resolved R1
D18	Alpha azimuth displayed in one photo conflicts with the alignment report.	Independent final QA	Resolved R1

Photo evidence sheet 01

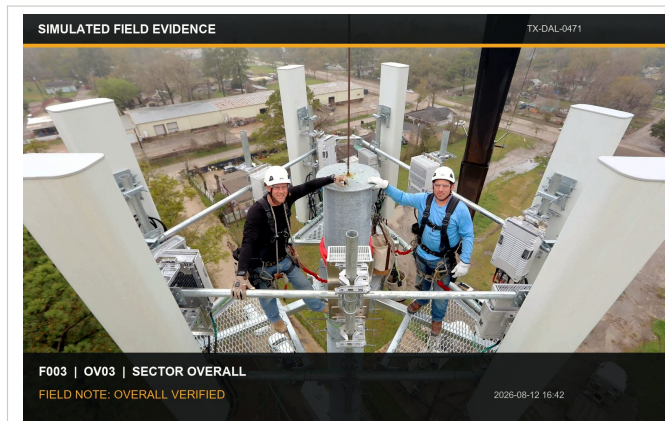
Corrected evidence is used where the raw intake contained a seeded defect.



OV01 | Pre-construction overall compound overview



OV02 | Post-construction compound south overview



OV03 | Post-construction compound east overview



OV04 | Post-construction compound west overview

Photo evidence sheet 02

Corrected evidence is used where the raw intake contained a seeded defect.

SIMULATED FIELD EVIDENCE

TX-DAL-0471



SECTOR: GROUND

MODEL: NMS-664

SERIAL: GRRU-2001

C01 | OV05 | SECTOR GROUND

CORRECTED EVIDENCE - REVISION ROUND 1

2026-08-12 16:42

OV05 | Post-construction compound north overview

SIMULATED FIELD EVIDENCE

TX-DAL-0471



SECTOR: OVERALL

MODEL: NMS-664

SERIAL: ORRU-2005

F005 | OV06 | SECTOR OVERALL

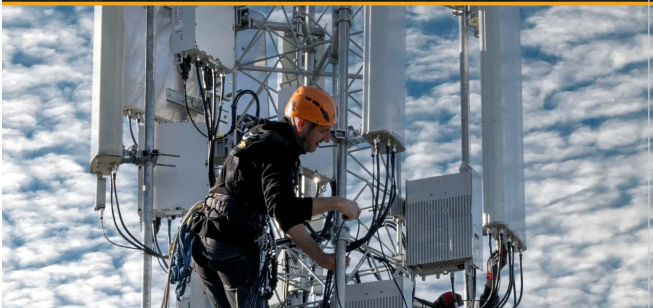
FIELD NOTE: OVERALL VERIFIED

2026-08-12 16:42

OV06 | Final tower and lease-area context

SIMULATED FIELD EVIDENCE

TX-DAL-0471



F011 | A01 | SECTOR ALPHA

FIELD NOTE: ALPHA VERIFIED

2026-08-12 16:42

A01 | Alpha: Full sector overview from face

SIMULATED FIELD EVIDENCE

TX-DAL-0471



F012 | A02 | SECTOR ALPHA

FIELD NOTE: ALPHA VERIFIED

2026-08-12 16:42

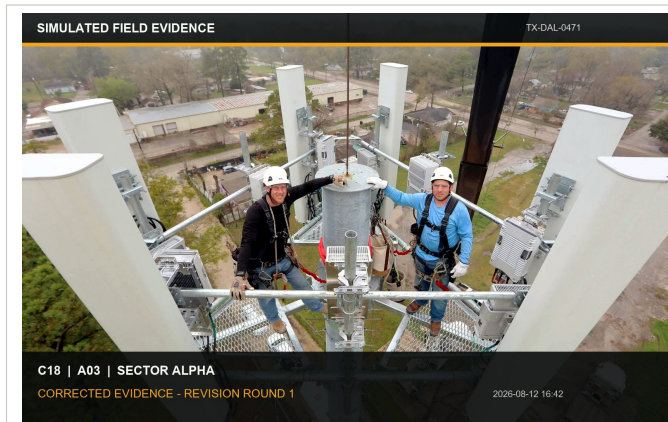
A02 | Alpha: Sector identification is visible and correct

SIMULATED SAMPLE / INTERNAL BENCHMARK - NOT CUSTOMER RESULTS

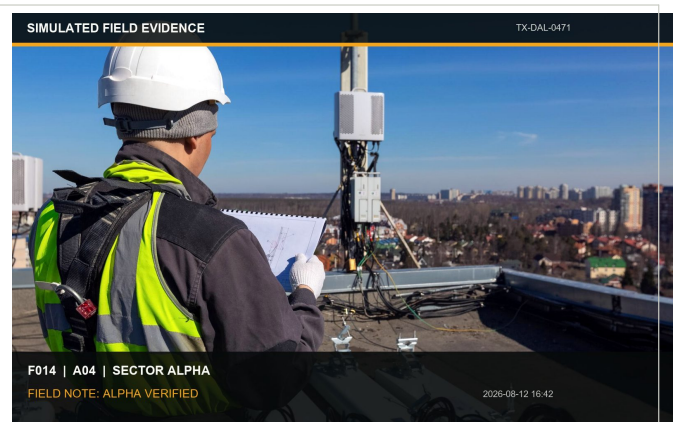
PAGE 12

Photo evidence sheet 03

Corrected evidence is used where the raw intake contained a seeded defect.



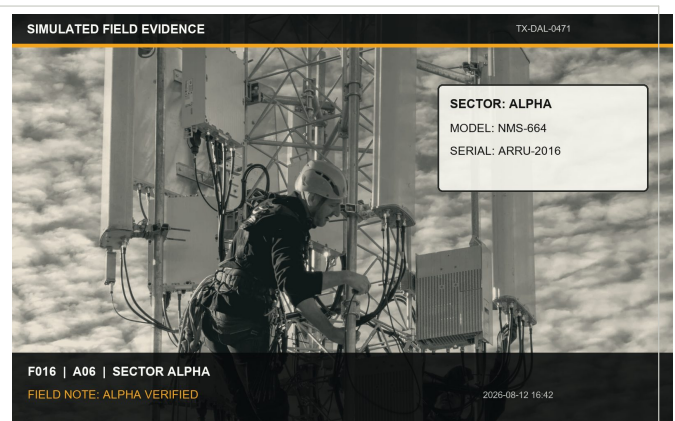
A03 | Alpha: Antenna orientation evidence agrees with alignment record



A04 | Alpha: Antenna installation and mounting hardware are visible



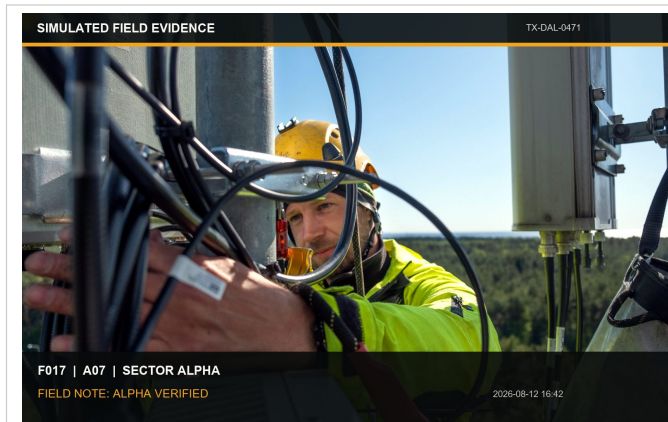
A05 | Alpha: Antenna model and serial are legible



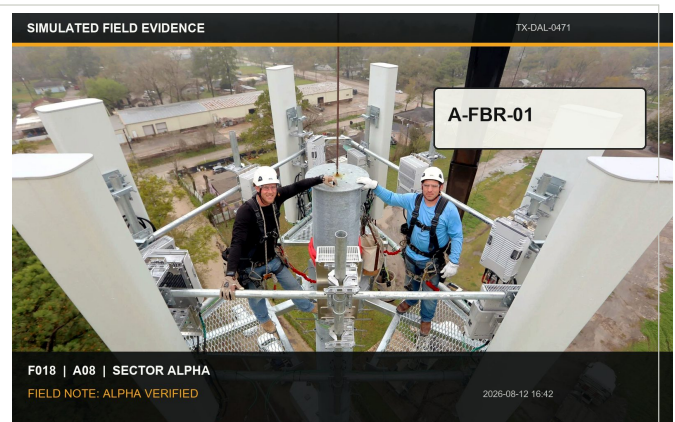
A06 | Alpha: RRU model and serial are legible

Photo evidence sheet 04

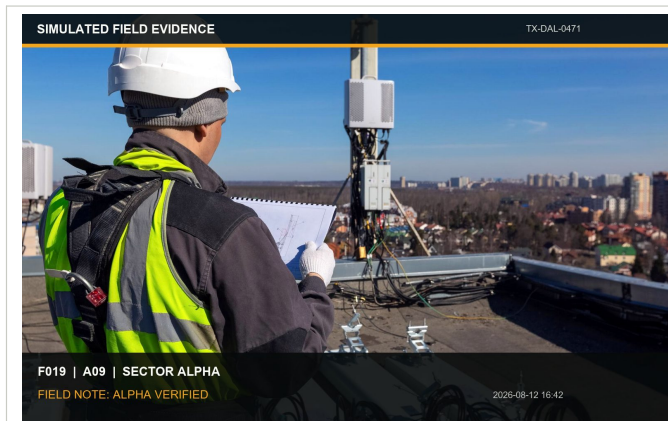
Corrected evidence is used where the raw intake contained a seeded defect.



A07 | Alpha: RRU mounting and cable connections are visible



A08 | Alpha: Cable labels map to the correct sector and equipment



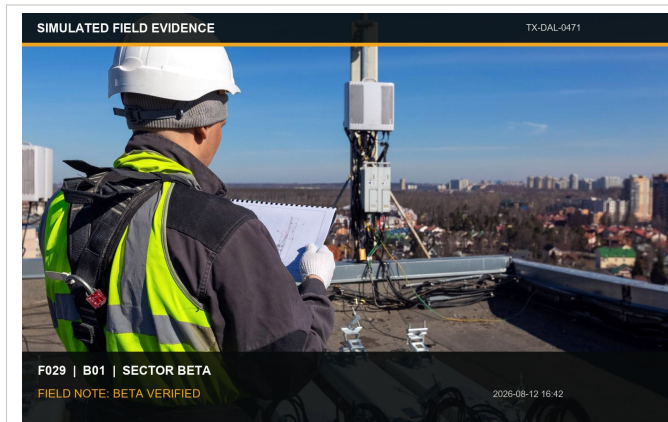
A09 | Alpha: Fiber and power routing are visible at the sector



A10 | Alpha: Weatherproofing and final workmanship are visible

Photo evidence sheet 05

Corrected evidence is used where the raw intake contained a seeded defect.



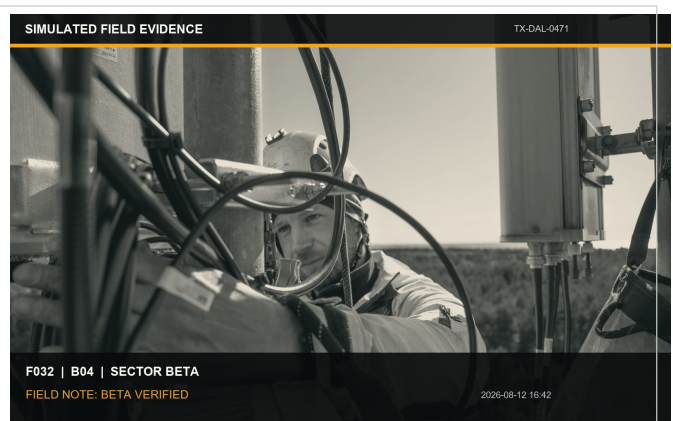
B01 | Beta: Full sector overview from face



B02 | Beta: Sector identification is visible and correct



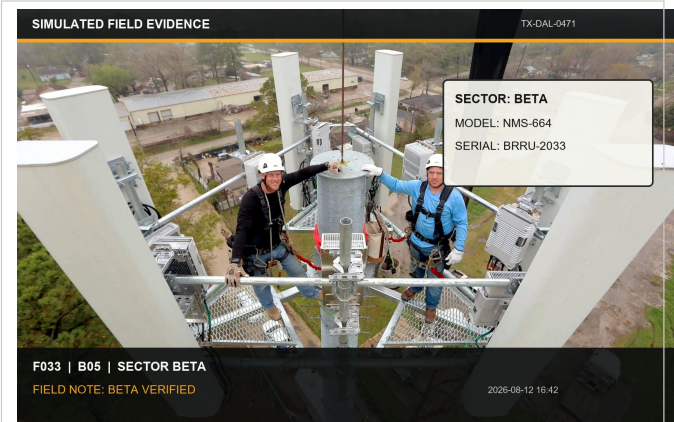
B03 | Beta: Antenna orientation evidence agrees with alignment record



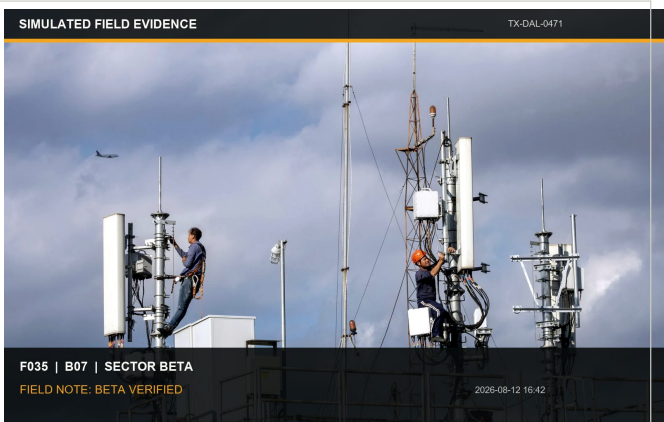
B04 | Beta: Antenna installation and mounting hardware are visible

Photo evidence sheet 06

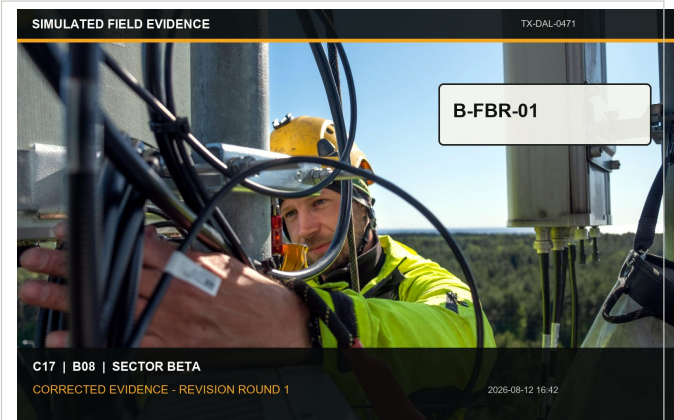
Corrected evidence is used where the raw intake contained a seeded defect.



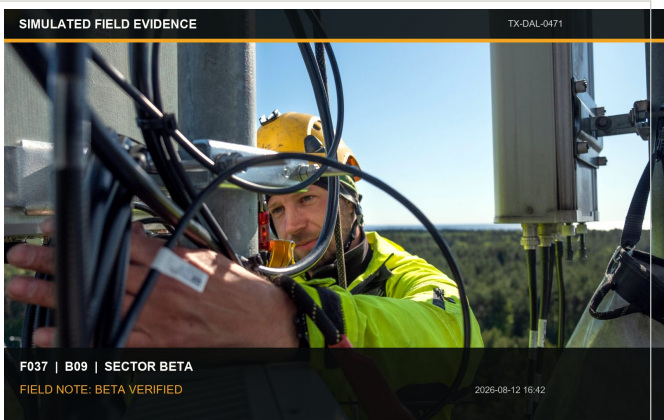
B05 | Beta: Antenna model and serial are legible



B07 | Beta: RRU mounting and cable connections are visible



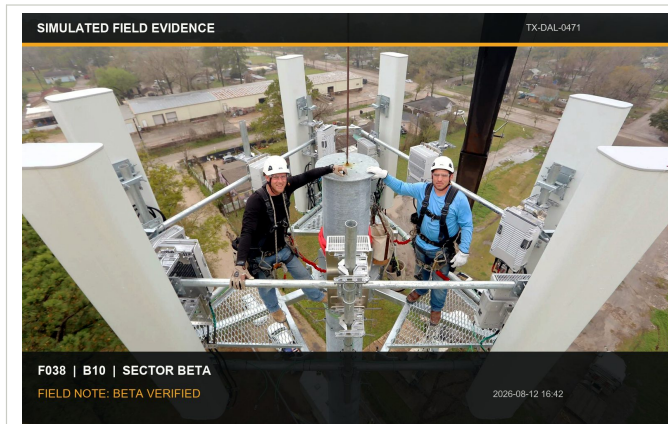
B08 | Beta: Cable labels map to the correct sector and equipment



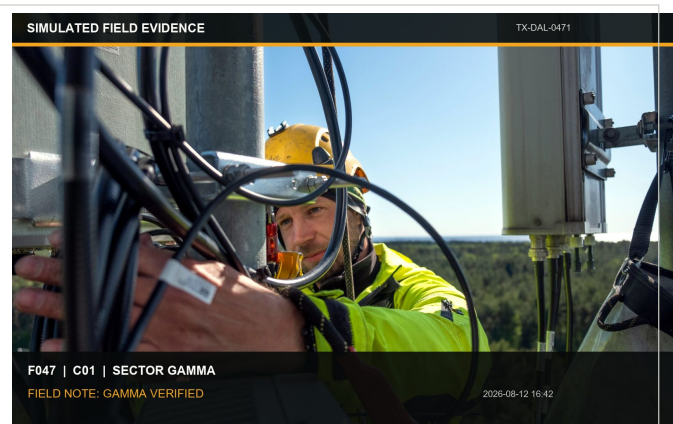
B09 | Beta: Fiber and power routing are visible at the sector

Photo evidence sheet 07

Corrected evidence is used where the raw intake contained a seeded defect.



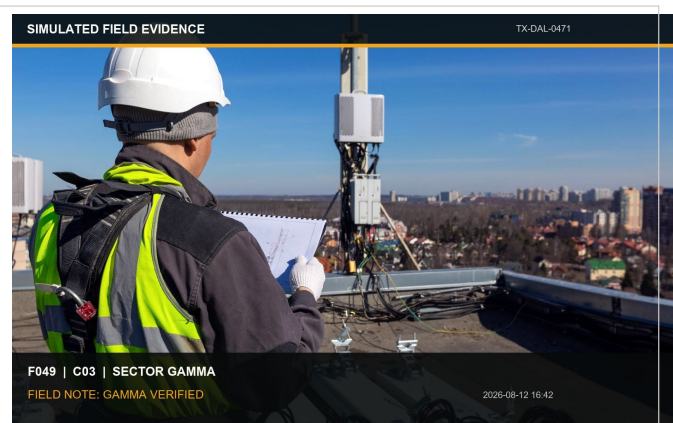
B10 | Beta: Weatherproofing and final workmanship are visible



C01 | Gamma: Full sector overview from face



C02 | Gamma: Sector identification is visible and correct



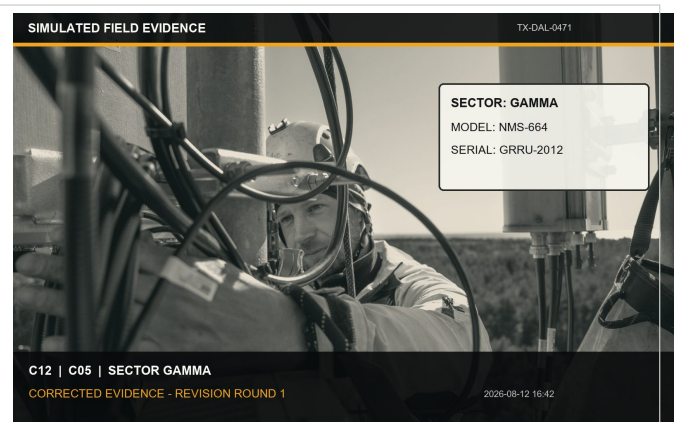
C03 | Gamma: Antenna orientation evidence agrees with alignment record

Photo evidence sheet 08

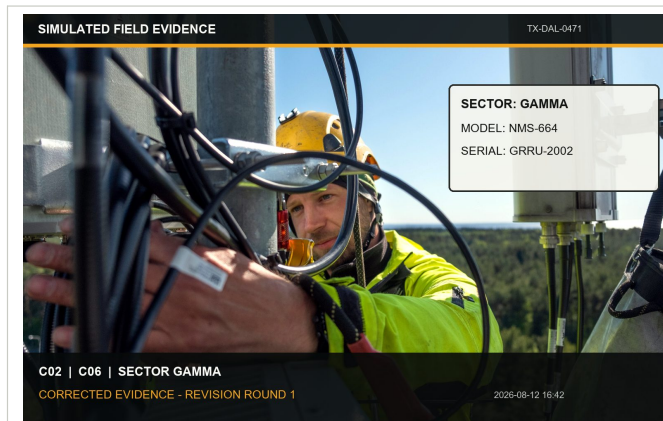
Corrected evidence is used where the raw intake contained a seeded defect.



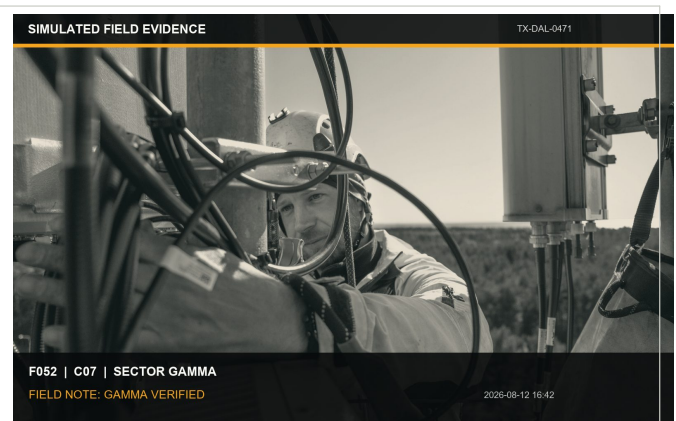
C04 | Gamma: Antenna installation and mounting hardware are visible



C05 | Gamma: Antenna model and serial are legible



C06 | Gamma: RRU model and serial are legible



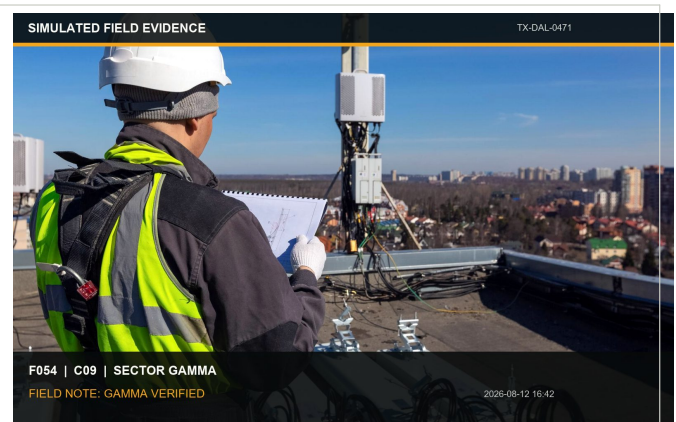
C07 | Gamma: RRU mounting and cable connections are visible

Photo evidence sheet 09

Corrected evidence is used where the raw intake contained a seeded defect.



C08 | Gamma: Cable labels map to the correct sector and equipment



C09 | Gamma: Fiber and power routing are visible at the sector



C10 | Gamma: Weatherproofing and final workmanship are visible



GR01 | Master ground bar overview is included

Photo evidence sheet 10

Corrected evidence is used where the raw intake contained a seeded defect.

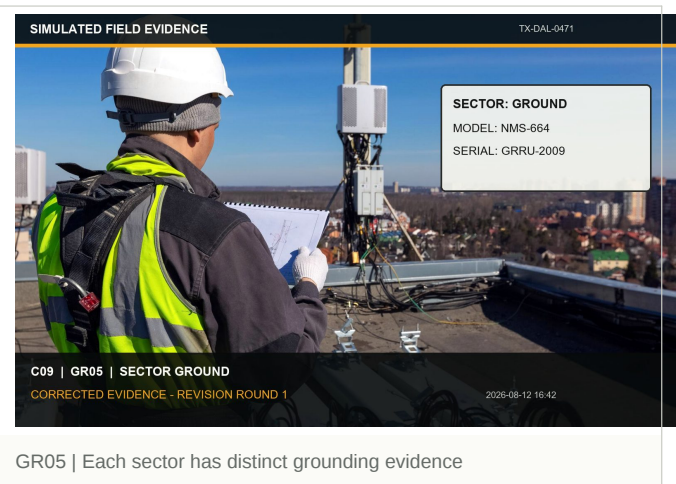
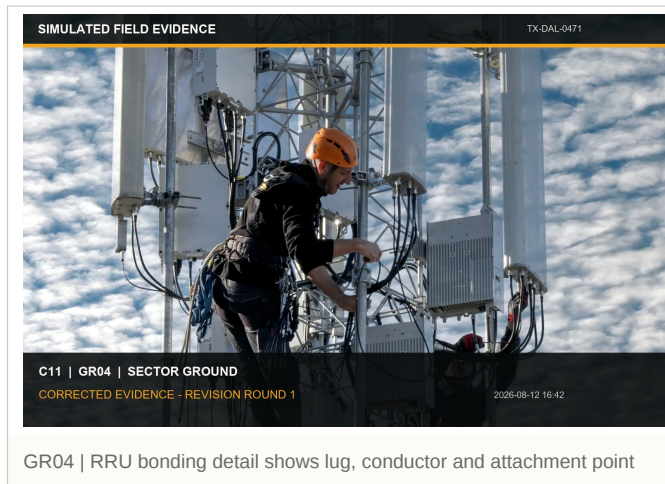
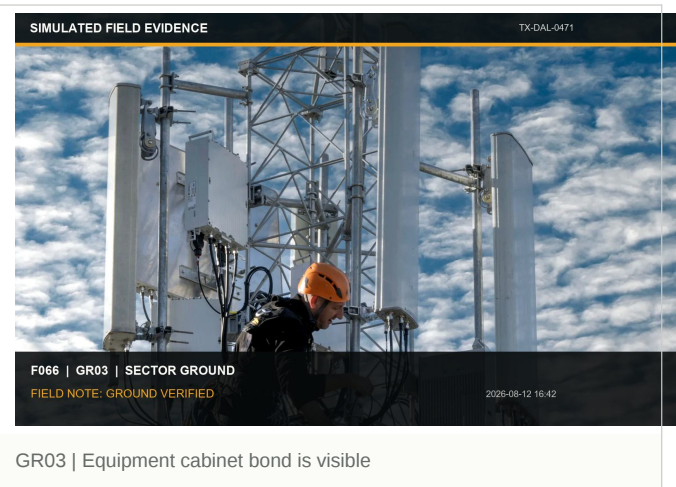
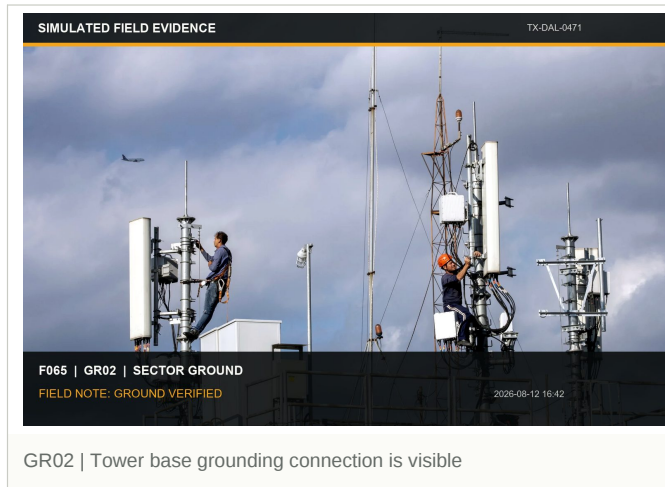


Photo evidence sheet 11

Corrected evidence is used where the raw intake contained a seeded defect.

SIMULATED FIELD EVIDENCETX-DAL-0471



SECTOR: GROUND

MODEL: NMS-664

SERIAL: GRRU-2069

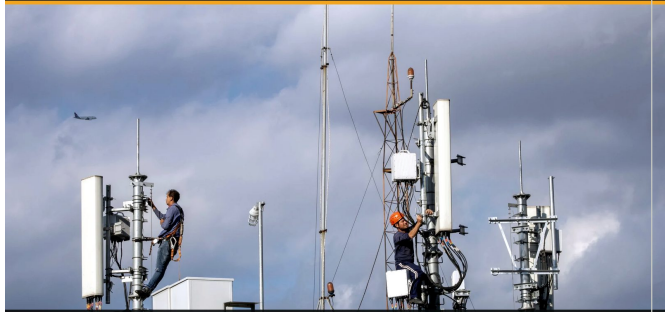
F069 | GR06 | SECTOR GROUND

FIELD NOTE: GROUND VERIFIED

2026-08-12 16:42

GR06 | Cable entrance ground kit and route are visible

SIMULATED FIELD EVIDENCETX-DAL-0471



C15 | GR07 | SECTOR GROUND

CORRECTED EVIDENCE - REVISION ROUND 1

2026-08-12 16:42

GR07 | Grounding labels are legible

SIMULATED FIELD EVIDENCETX-DAL-0471



G-FBR-01

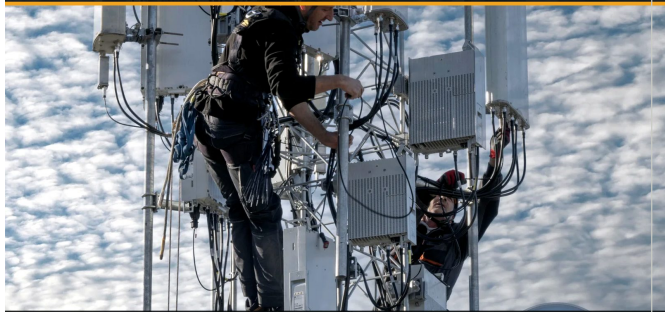
F071 | GR08 | SECTOR GROUND

FIELD NOTE: GROUND VERIFIED

2026-08-12 16:42

GR08 | Power panel, breaker and voltage reading evidence are included

SIMULATED FIELD EVIDENCETX-DAL-0471



C06 | TS01 | SECTOR GROUND

CORRECTED EVIDENCE - REVISION ROUND 1

2026-08-12 16:42

TS01 | Final PIM report is present for all applicable sectors

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Photo evidence sheet 12

Corrected evidence is used where the raw intake contained a seeded defect.

SIMULATED FIELD EVIDENCE

TX-DAL-0471



C08 | TS02 | SECTOR GROUND

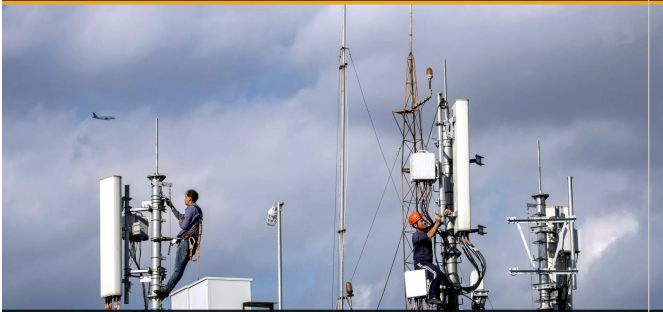
CORRECTED EVIDENCE - REVISION ROUND 1

2026-08-12 16:42

TS02 | Final line sweep report is present for all applicable sectors

SIMULATED FIELD EVIDENCE

TX-DAL-0471



C10 | TS03 | SECTOR GROUND

CORRECTED EVIDENCE - REVISION ROUND 1

2026-08-12 16:42

TS03 | Fiber OTDR report is present and readable

SIMULATED FIELD EVIDENCE

TX-DAL-0471



F078 | TS04 | SECTOR GROUND

FIELD NOTE: GROUND VERIFIED

2026-08-12 16:42

TS04 | Fiber optical power results are included

SIMULATED SAMPLE / INTERNAL BENCHMARK - NOT CUSTOMER RESULTS

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Final technical document register

CutClose verifies report identity, presence, readability and consistency. Technical pass/fail acceptance remains with the qualified customer or contractor authority.

Req	Document	Package section	Status
ADM01	ADM01_IRW-DFW-260812-17_Work_Order.pdf	01_SITE_ADMIN	Present / readable
ADM02	ADM02_site_information_sheet.pdf	01_SITE_ADMIN	Present / readable
ADM03	ADM03_TX-DAL-0471_RFDS.pdf	01_SITE_ADMIN	Present / readable
ADM04	ADM04_MOP_5G_MOD_v4.pdf	01_SITE_ADMIN	Present / readable
B06	B06_D05_B06_corrected.pdf	04_BETA_SECTOR	Present / readable
TS05	TS05_B_alignment.pdf	07_TEST_REPORTS	Present / readable
TS06	TS06_TX-DAL-0471_commissioning.pdf	07_TEST_REPORTS	Present / readable
DOC01	DOC01_TX-DAL-0471_field_redlines.pdf	08_AS_BUILTS_PUNCH	Present / readable
DOC02	DOC02_D07_DOC02_corrected.pdf	08_AS_BUILTS_PUNCH	Present / readable
DOC04	DOC04_D16_DOC04_corrected.pdf	08_AS_BUILTS_PUNCH	Present / readable
DOC05	DOC05_D13_DOC05_corrected.pdf	08_AS_BUILTS_PUNCH	Present / readable

Human QA and escalation

The structured workflow deliberately leaves visual judgment and technical conflicts visible instead of silently treating file presence as proof.

HUMAN TASKS 24 Targeted verification	TECHNICAL ESCALATIONS 1 Resolved by contractor authority	OPEN TASKS 0 At delivery
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Visual checks	Serial readability, label identity, evidence framing, distinct sector evidence and claimed connection visibility.
Cross-document checks	Site ID, sector, serial, date and revision consistency.
Technical boundary	CutClose does not choose acceptance limits or certify that the installation meets engineering requirements.
Independent QA	A separate final pass caught the Alpha orientation conflict missed by the structured pass.

Public research basis

The fictional Northstar requirement rows were informed by public workflow material. Exact formats, limits and acceptance rules vary by customer, program, market and scope.

DISH COP upload/review	Checklist items are uploaded, approved or rejected, and resubmitted after failed review.
DISH transport review	Public examples include conduit route, fiber handoff, load center, distribution panel and voltage evidence.
Anritsu closeout reporting	Closeout documentation can include line sweep, PIM, antenna alignment and fiber results as applicable.
Pathwave COP assembly	Photos, documents, test reports and customer-specific folders can be combined into structured closeout outputs.
Practitioner workflow	As-builts, tests, serials, equipment details and clear photos are recurring categories; exact customer formats vary.

Source URLs are listed in the benchmark Research_Basis.md file and the requirements matrix.

Final delivery statement

SIMULATED SAMPLE / INTERNAL BENCHMARK - NOT CUSTOMER RESULTS

READY FOR SIMULATED CUSTOMER REVIEW

All 64 fictional customer requirements reconcile to final evidence after one simulated correction round. Independent final QA found no open item. This statement describes only this internal simulated benchmark and is not a carrier or customer acceptance.

Package revision	R1
Final requirements complete	64 of 64
Seeded deficiencies found	18 of 18 before delivery
Open items	0
Customer acceptance	Not claimed
Engineering certification	Not performed