063: Non-Harness Multi-Step Run Review (session_20260115_214034)

Date: January 15, 2026
Session: *session_20260115_214034*
Run ID: *f482449a-dfd4-41c1-97e6-b206ea1002f3*

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1. Summary

This run demonstrates the **standard multi-agent workflow without harness mode**. The system decomposes a complex request (research → report → PDF → email) within a single context window using subagents and MCP tools.

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2. User Request

"Search for the latest news from Minnesota protests over the last two days. Create a report, save that report as a PDF, and then Gmail it to me."

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3. High-Level Pipeline

1. **Complexity classification** → routed to Complex Path.
2. **Research subagent** executes news/web search and finalizes corpus.
3. **Report writer subagent** drafts HTML report from refined corpus.
4. **PDF conversion** via headless Chrome.
5. **Upload + Gmail send** using Composio tools.

This is completed in ~206 seconds in a single iteration with 15 tool calls.

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4. Evidence of Success

• **HTML report** created: *work_products/report.html*
• **PDF report** created: *work_products/minnesota_protests_report.pdf*
• **Gmail response** returned an *id* (message id) for the send request.

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5. Notable Details

• Uses COMPOSIO_SEARCH_TOOLS → COMPOSIO_MULTI_EXECUTE_TOOL to run parallel searches.
• Local research pipeline (*finalize_research*) generates a refined corpus with a compression summary.

• Drafting uses `draft_report_parallel` + `compile_report`.
• PDF is produced via `google-chrome --headless --print-to-pdf`.
• Email send executes via `upload_to_composio` → `GMAIL_SEND_EMAIL` (multi-execute).

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6. Harness Status

• **No harness activation** (no completion promise, no mission.json).
• Successful multi-step execution within a single context window.

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7. Artifacts

• `work_products/report.html`
• `work_products/minnesota_protests_report.pdf`
• `tasks/minnesota_protests/refined_corpus.md`
• `search_results/*.json`