



Materials Inspection Record

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| 1. Licensee Name: St. Marys Cement, U.S. LLC | | 2. Docket Number(s): 030-34588 | | 3. License Number(s) 21-32044-01 | |
| 4. Report Number(s): 2021-001 | | | 5. Date(s) of Inspection: August 12, 2021 | | |
| 6. Inspector(s): Ryan Craffey | | 7. Program Code(s): 03120 | 8. Priority: 5 | 9. Inspection Guidance Used: IP 87124 | |
| 10. Licensee Contact Name(s): Fred Hommel - RSO | | 11. Licensee E-mail Address: frederick.hommel@vcimentos.com | | 12. Licensee Telephone Number(s): 231-237-1367 | |
| 13. Inspection Type: <input checked="" type="checkbox"/> Routine <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Non-Routine <input type="checkbox"/> Unannounced | | 14. Locations Inspected: <input checked="" type="checkbox"/> Main Office <input type="checkbox"/> Field Office <input type="checkbox"/> Temporary Job Site <input type="checkbox"/> Remote | | 15. Next Inspection Date (MM/DD/YYYY): 08/12/2026 <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Extended <input type="checkbox"/> Reduced <input type="checkbox"/> No change | |

16. Scope and Observations:

This was an announced routine inspection of cement production plant authorized to use byproduct material for bulk materials analysis at its facility in Charlevoix, Michigan. The licensee possessed neutron analyzers containing sealed sources of Cf-252 for measuring calcium, silicon, iron, aluminum, and magnesium content of its products via neutron activation. The licensee retained the services of the manufacturer to perform leak tests, source exchanges, area sureys and other maintenance semiannually. The licensee's RSO, a member of the quality department, was the only employee involved in the use of the analyzers.

The inspector toured the plant in Charlevoix with the RSO. All areas were adequately posted, and all material was adequately secured. Both analyzers were in good condition and properly labeled. The inspector conducted independent and confirmatory surveys in the vicinity of the analyzers and found no readings in excess of regulatory limits to members of the public. The inspector discussed use, maintenance, lock-out procedures, and receipt of replacement sources with the RSO, who continued to demonstrate proficiency in radiation protection principles and regulatory requirements.

The inspector also reviewed a selection of maintenance records from the manufacturer, including semiannual leak test results and area surveys, as well as documentation confirming receipt of the licensee's exchanged sources by an authorized recipient.

No violations of NRC requirements were identified as a result of this inspection.