



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

November 9, 2018

Judy Reilly
NCSC-UAW Region 9A Sch Dev Corp
C/O EHDOC-Suite 210
1580 Sawgrass Corp Pkwy #210
Sunrise, FL 33323

SUBJECT: PROPERTY AT 284 NORTH MAIN STREET – RESULTS AND
CONCLUSIONS OF NRC's SCOPING SURVEY

Dear Ms. Reilly:

I am writing to provide you with the results of the U.S. Nuclear Regulatory Commission (NRC) staff's scoping survey performed on your property at 284 North Main Street, Bristol, Connecticut, on November 14, 2017. As communicated by letter dated September 11, 2017,¹ a piece of slag-like material with elevated levels of radium was identified on the undeveloped embankment located at the eastern edge of the property during the November 2016 initial site visit. The purposes of the scoping survey were to determine if additional discrete sources of radium are present, and whether these sources posed: (1) any immediate health and safety concerns that require restricting access to the contaminated area; and (2) a need for remediation. As discussed in letter dated October 6, 2016,² the site was historically occupied by the Ingraham Clock Company.

As discussed within the enclosed report, the NRC staff and contractors visited the site on November 14, 2017, and performed radiological surveys consisting of gamma radiation scans and exposure rate measurements. Surveys covered approximately 70 percent of the undeveloped embankment. Heavy vegetative undergrowth, branches, and steep inclines with loose soil prevented contractors from accessing the entire area. The contractors identified several small areas with elevated radiation readings in a delineated area of approximately 6 meters by 1 meter. Several pieces of slag-like material were found in shallow soil, ranging in depth from 0.1 to 0.5 meters below the ground surface. Two samples of the slag-like material were removed from the site and further analyzed. It was determined that the material does contain elevated concentrations of Ra-226. There were also indications that there may be additional material that was inaccessible below the ground surface within the 6-meter by 1-meter area.

Analyses of current land uses, exposure rate measurements, and samples collected in the undeveloped embankment indicate that the potential radiological dose from the materials would not exceed the 100-millirem-per-year (mrem/yr) public dose limit for current potential receptors (i.e., members of the public), as detailed in Title 10 of the *Code of Federal Regulations* (10 CFR) Section 20.1301, *Radiation dose limits for individual members of the public*. For this reason, the NRC staff concludes there are no immediate health and safety concerns at this site

¹ Agencywide Documents Access and Management System (ADAMS) Package Accession No. ML17034A504.

² ADAMS Accession No. ML16277A308.

provided that the identified contaminated soil is not disturbed and the occupancy of the area remains minimal. The NRC staff noted that the embankment supports active railroad tracks and, for this reason, believes there is little likelihood of soil disturbance or significant changes in site occupancy for the foreseeable future.

The NRC also evaluated the dose for future potential receptors to ensure the NRC's unrestricted use limit of 25 mrem/yr (10 CFR Section 20.1402, *Radiological criteria for unrestricted use*) is not exceeded. The *Dose Assessment Technical Basis Document for Potential Exposures to Discrete Sources of Radium-226 and Associated Contamination*³ describes how adjustments may be made when site-specific conditions do not match the default conceptual model. As discussed in the enclosed report, when considering a scenario where a recreational walker passes through the area in close proximity to the material, the unrestricted-use limit is not exceeded given the current configuration of the property. Therefore the NRC is not requiring additional actions at this time.

However, should redevelopment activities take place at the site that include disturbance of the area detailed in the enclosed report, characterization and an assessment of the area should be considered.

In accordance with 10 CFR 2.390 of the NRC's "Agency Rules of Practice and Procedure," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html>.

We will be contacting you in the near future to answer any questions you may have regarding this letter. Additionally, you may also contact Mr. Stephen Koenick, Chief of the Low-Level Waste and Projects Branch within the Division of Decommissioning, Uranium Recovery and Waste Programs in the Office of Nuclear Materials Safety and Safeguards at (301) 415-6631, or Mr. Richard Chang, Project Manager, at (301) 415-5888.

Sincerely,

/RA/

John R. Tappert, Director
Division of Decommissioning, Uranium Recovery
and Waste Programs
Office of Nuclear Material Safety
and Safeguards

Docket Nos.: 03038977

Enclosure:
Site Status Report for 284 North Main Street

REGISTERED LETTER – RETURN RECEIPT REQUESTED

³ ADAMS Accession Number ML17072A414.

SUBJECT: PROPERTY AT 284 NORTH MAIN STREET – RESULTS AND
CONCLUSIONS OF NRC’s SCOPING SURVEY **DATE November 9, 2018**

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