



March 23, 2018

Mr. Chris Grossman
Nuclear Material Safety and Safeguards
Division of Decommissioning, Uranium Recovery, and Waste Programs
Materials Decommissioning Branch
U.S. Nuclear Regulatory Commission
11545 Rockville Pike, MS T8-F05
Rockville, MD 20852

**SUBJECT: SITE SUMMARY REPORT FOR THE NC SERVO TECHNOLOGY CORPORATION PROPERTY AT 38422 WEBB DRIVE IN WESTLAND, MICHIGAN
CONTRACT NO. NRC-HQ-50-17-A-0001; DCN 5307-TR-03-1**

Dear Mr. Grossman:

Oak Ridge Associated Universities (ORAU) is pleased to provide the attached site summary report for the NC Servo Technology Corporation property at 38422 Webb Drive, Westland, Michigan. NRC's comments on the draft report have been incorporated into this final version.

Please feel free to contact me at 865.574.0685 or Erika Bailey at 865.576.6659 if you have any questions.

Sincerely,

David A. King, CHP, PMP
Sr. Health Physicist/Project Manager
ORAU

DAK:lw

Attachment

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NC Servo Technology Corporation: Site Summary

**Prepared by
Oak Ridge Associated Universities
Under NRC Contract Number HQ-50-17-A-0001**

March 23, 2018

**Prepared for
U.S. Nuclear Regulatory Commission**

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NC Servo Technology Corporation: Site Summary

The following information was extracted from public records.

Address

Address 1: 38424 Webb Drive, Westland, Michigan

Address 2: 38422 Webb Drive, Westland, Michigan

Address 1 is noted in letters from the State of Michigan (NRC 2017), but the Westland Assessor's database lists 38424 Webb Drive as a "sub-address" of Address 2, 38422 Webb Drive (City of Westland 2017).

Site Description/History

NC Servo Technology in Westland, Michigan, is a Federal Aviation Administration (FAA) certified repair station that specializes in the selling/servicing of servo valves, motors, and drives according to their website (NC Servo 2017). The company has been servicing equipment since 1975 and still operates today. The State of Michigan surveyed the facility in 1992 and identified "less than 10" radioactive gauges and localized contamination, presumably from radium (NRC 2017).

The Westland Assessor's database lists the site as 1.277 acres and contains the approximately 12,000-square-foot, two-story brick building shown in Figure 1. A review of available Google Earth images dating back to 1999 indicates that the site and building do not appear to have undergone any significant configuration changes in the last 18 years. The oldest available aerial image is presented in Figure 2.

The Wayne County Register of Deeds' database shows the most recent transfer of the deed to the site occurred in December 2003, and the grantee was Eddie's Building LLC. The database has no record of Eddie's Building LLC transferring the deed (Wayne County 2017). However, the Westland Assessor's database lists the owner of the property as NC Servo Technology Corporation (City of Westland 2017).



Figure 1. Street View of NC Servo Technology (August 2016) (Google Earth Pro 2017)



Figure 2. Aerial View of NC Servo Technology (March 1999) (Google Earth Pro 2017)

Information Regarding Radium Sources/Contamination at the Site

The State of Michigan surveyed the NC Servo Technology facility in 1992. The site personnel at that time believed there were no radioactive items, but some (“less than 10”) gauges were found, several of which belonged to customers—presumably the gauges contained radium. The facility appeared to have “fairly localized contamination” including “a closet which has higher than normal background and several work surfaces with easily detectable areas of contamination.” The facility personnel were instructed to perform general housecleaning to the areas, but there is no record of a follow-up to determine if the contamination had been properly cleaned. The State promised assistance for a follow-up survey of the work surfaces following the “attempt to wipe clean the work surfaces,” but the record does not show that any follow-up action was taken (NRC 2017). That “radium paint spills from a previous owner” might have contributed to the observed contamination was noted by the State (NRC 2017).

It is not known if areas outside the building were included in the State’s survey.

NC Servo Technology currently does much of its business online. A review of the items they are currently selling did not show any gauges or other instruments that are suspected to contain radium. However, because they service aircraft parts for customers, it is possible that they received other aircraft equipment containing radium since the 1992 survey.

Summary of Current Radium Levels:

As of August 2017, it is not known if radium sources and/or radium contamination are present at the site.

Location and Population Near the Site

The site at 38422 Webb Drive is located in Westland in Wayne County, Michigan. According to the 2010 U.S. Census, the population of Westland was 84,094; the 2016 population estimate for the city was 81,545 (United States Census Bureau 2017). Figure 3 shows the location of the facility within the local community.



**Figure 3. Area Surrounding NC Servo Technologies, Westland, Michigan (August 2016)
(Google Earth Pro 2017)**

Current State/other Federal Involvement

Clean up was suggested by the State of Michigan in 1992 after their initial survey. An extensive internet search of public records did not reveal any other information about state or federal involvement at the site.

Current Access and Activities at the Site

The site is currently occupied by NC Servo Technology, a company that specializes in selling and servicing servo valves, drives, and motors. The company sells many of its products online, but it is assumed to be frequented by customers also. The number of people currently employed by the company is unknown.

The owner of the site is the NC Servo Technology Corporation according to the Westland Assessor's database.

Existing Engineering and Administrative Controls

No information about engineering or administrative controls could be identified.

Prioritization Ranking

NRC assigns a prioritization ranking for each site based on two factors. The first factor relates to whether or not the historical record confirms the presence of radium and there is no documentation that the radium contamination was previously remediated. The second factor considers the potential for human exposure. Based on these factors, the site is assigned Tier 1, 2, 3, or 4 using the following criteria:

- Tier 1 = the historical record confirms the presence of radium, the building or adjacent lands are occupied or frequented by visitors, and site access is not controlled.
- Tier 2 = the historical record confirms the presence of radium, the building or adjacent lands are not occupied or frequented by visitors, and site access is weakly controlled.
- Tier 3 = the historical record confirms the presence of radium, the building or adjacent lands are not occupied or frequented by visitors, and site access is strongly controlled.
- Tier 4 = the presence of radium is suspected but not confirmed by the historical record.

Radium is assumed to have been present at the site based on radiological survey data from 1992, and the site is currently occupied. Based on this information, the site is classified as Tier 1.

References

City of Westland 2017. Wayne County, Michigan, 38422 Webb Drive, Westland, Michigan, <https://accessmygov.com/SiteSearch/SiteSearchDetails?SearchFocus=Assessing&SearchCategory=Address&SearchText=38424+Webb&uid=294&PageIndex=1&ReferenceKey=027+01+0001+000&ReferenceType=0&SortBy=&SearchOrigin=0&RecordKeyDisplayString=027+01+0001+000&RecordKey=1%3d027+01+0001+000&RecordKeyType=1%3d0>, accessed August 29.

Google Earth Pro 2017. Accessed August 29.

NC Servo 2017. <http://www.ncservo.com/index.html>, accessed August 29.

NRC 2017. *Letters from the State of Michigan re: Non-Military Radium Program*, prepared by the State of Michigan under Cooperative Agreement with the Nuclear Regulatory Commission, Regional Offices and the Office of Nuclear Materials Safety and Safeguards. July 7. (Agencywide Documents Access and Management System [ADAMS] Accession No. ML16288A777)

United States Census Bureau 2017. <https://www.census.gov/quickfacts/fact/table/westlandcitymichigan/PST045216>, accessed August 29.

Wayne County 2017. Register of Deeds, <https://www.waynecountylandrecords.com/recorder/eagleweb/viewDoc.jsp?node=DOCCL-18732485>, accessed August 29.