



August 11, 2023

MS. DENICE NELSON
JOHNSON CONTROLS, INC
5757 N. GREEN BAY AVENUE
MILWAUKEE, WI 53209

Via Email Only to denice.karen.nelson@jci.com

SUBJECT: Response to GETS Interim Remedial Action Construction Documentation Report
JCI/Tyco FTC PFAS, 2700 Industrial Parkway South, Marinette, WI
BRRTS #02-38-580694

Dear Ms. Nelson:

On June 16, 2023, the Wisconsin Department of Natural Resources (DNR) received the *Groundwater Extraction and Treatment System Interim Remedial Action Construction Documentation Report* (the “GETS Construction Report”) at the above-referenced site (the “Site”). The report was submitted by Geosyntec Consultants (Geosyntec) on behalf of Johnson Controls, Inc. and Tyco Fire Products LP (JCI/Tyco) and was accompanied by the fee required under Wisconsin Administrative Code (Wis. Admin. Code) § NR 749.04(1) for DNR review and response.

The DNR reviewed and approves the GETS Construction Report. As part of its review of this report, the DNR suggests JCI/Tyco take additional steps to ensure that the location of buried conveyance lines in the right of way can be identified in future utility locates.

Background

JCI/Tyco is investigating and responding to the discharge of per- and polyfluoroalkyl substances (PFAS) to the environment at the JCI/Tyco Ansul Fire Technology Center (FTC), located at 2700 Industrial Parkway South in Marinette, Wisconsin. The discharge occurred as the result of fire suppressant training, testing, research and development of PFAS-containing aqueous film forming foams (AFFF) at the Site starting in the early 1960s.

JCI/Tyco’s site investigation revealed PFAS concentrations greater than 10,000 parts per trillion (ppt) in groundwater beneath and to the east of the FTC property, which contributes to the PFAS in surface water in Ditch B and PFAS migration into the Bay of Green Bay. In Feb. 2021, JCI/Tyco proposed an interim remedial action – the GETS – to capture and treat some of the highly contaminated groundwater moving toward Ditch B.

On May 18, 2021, the DNR approved the *Interim Remedial Action Design Report* for the GETS (the “GETS RADR”). The GETS includes nine vertical groundwater extraction wells to capture contaminated groundwater migrating toward Ditch B, buried conveyance pipes to bring the contaminated water to a treatment building on the FTC property, and a groundwater treatment system with oxidation, filtration, granular activated carbon (GAC) and ion exchange resins to remove PFAS from groundwater. The system also includes buried conveyance pipes for the treated water to be discharged to surface water in Ditch B. The discharge of the treated water is currently approved and regulated under Wisconsin Pollutant Discharge Elimination System (WPDES) General Permit No. WI-0046566-07-0 and the associated coverage letter dated Oct. 15, 2021.

The DNR's approval of the GETS RADR included a condition that JCI/Tyco submit a Wis. Admin. Code § NR 724.15 construction documentation report within 120 days after startup of the GETS and that the construction documentation report also document the management and disposal of impacted materials generated during construction of the GETS. Full-scale operation of the GETS began on Jan. 16, 2023, putting the 120-day mark on May 16, 2023. JCI/Tyco requested an extension for submittal of the GETS Construction Report to June 16, 2023, which was approved by the DNR.

Summary and DNR Review of GETS Construction Report

The GETS Construction Report includes a summary of the system components, as-built drawings, boring logs and well construction reports, summary of the pumping tests on the extraction wells, results from leak testing on the conveyance pipes, and a summary of the startup and commission on the treatment system leading up to the full-scale operations. The GETS Construction Report follows the requirements of Wis. Admin. Code § NR 724.15.

In accordance with the conditions of approval of the GETS RADR, the GETS Construction Report also included the volumes of impacted materials generated during construction and startup of the GETS and a summary of how these materials were managed. Impacted water was treated and discharged under the WDPEs General Permits for the GETS and the Ditch A Treatment System. Soils were stockpiled and temporarily stored on-site according to the approved Materials Management Plan and sludges were containerized for disposal. It is the DNR's understanding that all soils and sludges from construction of the GETS were transported and disposed of at the Waste Management Facility in Arlington, OR, and that documentation of this disposal will be provided in a soil remediation documentation report that is anticipated for later in the summer of 2023.

Following its review of the GETS Construction Report, the DNR recommends that JCI/Tyco to take steps ensure that the buried conveyance lines in the right of way can be located by the city of Marinette or other utility locators following a request to Diggers Hotline to avoid potential damage to the lines in the future. On June 26, 2023, the DNR shared this recommendation with you during our weekly call, and it is the DNR's understanding that JCI/Tyco is taking action to complete this request and will submit documentation to the DNR when complete.

Next Steps

The construction documentation report is approved as written and no changes are required. The DNR requests that JCI/Tyco provide an email to document that the location of the buried conveyance lines has been provided to the appropriate entities to ensure the buried lines can be identified in future requests for utility locates in the area.

If you have any questions, please contact me at Alyssa.Sellwood@wisconsin.gov or (608) 622-8606.

Sincerely,



Alyssa Sellwood, PE
Complex Sites Project Manager
Remediation & Redevelopment Program

cc: Jodie Thistle, DNR (via email: Jodie.Thistle@wisconsin.gov)