

**ATTACHMENT 1
RADIONUCLIDE RELEASE INITIAL REPORT ELECTRONIC FORMAT - EXAMPLE
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**STATE OF ILLINOIS
NUCLEAR POWER PLANT
RADIONUCLIDE RELEASE REPORT
INITIAL REPORT**

The following information must be submitted to the Illinois Environmental Protection Agency and to the Illinois Emergency Management Agency to report a release of a radionuclide pursuant to 35 Ill. Adm. Code 1010.202. This initial report must be submitted to each agency via phone and electronically within 24 hours of the release. Please attach additional sheets as needed.

This form can also be used by a licensee that, pursuant to the last section of 35 Ill. Adm. Code 1010.104, reports a release of radionuclides that is not required to be reported under Section 13.6 of the Environmental Protection Act.

Report Date/Time 3/10/21 / 1623

Nuclear Generation Station Name Quad Cities Nuclear Power Station

Address 22710 206th Ave North

City, State, Zip Cordova, IL 61242

Name of Principal Executive Officer Kenneth Ohr

Telephone Number 309-227-3600

Signature 

Name of Licensee Quad Cities Nuclear Power Station

Address 22710 206th Ave North

City, State, Zip Cordova, IL 61242

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Specific Location of Release Condensate Storage Tank and ancillary piping area

Time of Release 3/10/2021 / 0830

Duration of Release Ongoing

Identify Radionuclide Release Tritium

Estimate the Quantity of Release (Curies) Under investigation, however, based on the concentrations detected in wells QC-GP-12 and now QC-GP-16 it is believed that tritium approaching or exceeding 0.002 Ci has been reached.

Estimate of Volume Released Under investigation

Estimate of Concentration (pCi/L) of Release Under investigation

Estimate of Flow-Rate, if on-going Under investigation but appears to be very localized based on current surrounding well data.

General Description of Release (including, but not limited to, whether release was to groundwater, surface water, or soil; a description of release area; and the size of affected area) Groundwater sampling of well QC-GP-12 showed an activity of 2,760,000 pCi/L. Sample results from nearby well QC-GP-16 showed an activity of 1,940,000 pCi/L. QC-GP-12 and QC-GP-16 are located in the Condensate Storage Tank and ancillary piping area. Size of affected area is under review but appears to be limited and all other wells in the vicinity are less than detectable. Based on the concentrations detected in wells QC-GP-12 and QC-GP-16 it is believed that tritium approaching or exceeding 0.002 Ci has been reached.

Actions Taken in Response to Release Excavation to identify source of leak is underway. Additional sampling is being conducted on the affected wells and the surrounding wells to help define the event. An additional monitoring well has been installed, with plans to install six additional wells to define the extent of tritium in groundwater. Station currently pursuing remediation from QC-GP-16.

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Known and Anticipated Impacts to Human Health and/or Environment

Tritiated water in detectible concentrations is limited to the vicinity of the Condensate Storage Tank and ancillary piping area, well within property boundary. Actions are being taken to recover released material. The on-site area is covered with relatively impervious material (asphalt or concrete) limiting potential exposure pathways. Based on current conditions/data, there are no impacts to human health or the environment.

Additional Information

Around the clock investigation and remediation team has been set up on site.

Number for reporting via telephone:

Illinois EPA – (217) 782-3637

IEMA – (800) 782-7860
(217) 782-7860 (if calling from outside Illinois)

Submit electronically to:

IEPA at "EPA.RadRelease@Illinois.gov"

IEMA at "ema.npprelease@illinois.gov"

Contacts for Further Information

Name Sherrie Grant

Address 22710 206th Ave Nor

City, State, Zip Cordova, IL 61242

Telephone Number 309-227-2800

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Name _____

Address _____

City, State, Zip _____

Telephone Number _____