

**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 3/29/2018 14:30

Nuclear Generation Station Name Quad Cities Nuclear Power Station

Address 22710 206<sup>th</sup> Avenue North

City, State, Zip Cordova, Illinois 61242

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Name of Principal Executive Officer Kenneth Ohr

Telephone Number 309-222-3600

Signature \_\_\_\_\_

Name of Licensee Quad Cities Nuclear Power Station

Address 22710 206<sup>th</sup> Avenue North

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City, State, Zip Cordova, Illinois 61242

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Specific Location of Release Radwaste Pipe Vault adjacent to Radwaste Max Recycle

Time of Release 3/28/2018 / 15:18

Duration of Release Estimated between 3/27/2018 (12:00) to 3/28/2018 (0801)

Identify Radionuclide Release Tritium/ Cobalt 60

Estimate the Quantity of Release (Curies) Under investigation

Estimate of Volume Released Under investigation

Estimate of Concentration (pCi/L) of  
Release 4,570,000 pCi/L; Cobalt-60 - 68pCi/L

Estimate of Flow-Rate, if on-going Under Investigation

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) During Operating rounds on 3/28/2018 approximately two feet of water was identified in the Radwaste Pipe Vault. The vault is located directly north of the Max Recycle Building. Samples in the vault and the adjacent groundwater monitoring well QC-GP-18 were obtained. Tritium results from the groundwater well and the vault were 4.5 million picocuries/liter. Area of release is contained to the immediate vicinity of Max Recycle. Size of affected area is under review.

Actions Taken in Response to Release

Water was removed from the Radwaste Pipe vault. Verify no additional input into the vault. Began pumping water from the adjacent groundwater monitor well.

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Known and Anticipated Impacts to Human Health and/or Environment

Tritiated water in detectible concentrations is limited to the property. 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. No impacts to human health or the environment are anticipated.

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Additional Information

A round 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 Rebecca Craddick

Address 22710 206<sup>th</sup> Avenue North

City, State, Zip Cordova, Illinois 61242

Telephone Number 309-227-3708

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Name \_\_\_\_\_

Address \_\_\_\_\_

City, State, Zip \_\_\_\_\_

Telephone Number \_\_\_\_\_

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