

Originator: Michura,Broughton T

Originator Phone: 5696

Originator Site Group: RBS Tech Chemistry Staff RBS

Operability Required: Y

Supervisor Name: Hallaran III,Kenneth S

Reportability Required: Y

Discovered Date: 11/05/2008 10:10

Initiated Date: 11/05/2008 15:08

Condition Description:

Sampling of ARV PIT #2 for an Environmental release sample prior to pumping out the pit to allow work, Co-60 was identified with a value of 194 pCi/Kg (or 1.94E-07uCi/g). The following components are identified as being in the pit: 1CWS-ARV8, 1MWS-ARV2, and 1WTL-ARV4. in the mud.

Immediate Action Description:

Notified Chemistry/ESG/Rad Protection management of the results. The Re-sample confirmed the present of Co-60 1.87E-07 uCi/g in the mud. Tritium is being counted. Sampled the soil around the pit area found only natural isotopes.

Suggested Action Description:

TBD

Attachments:

Condition Description

gamma spectrum

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Immediate Action Description

resample gamma spectrum

soil around west side of pit

east side of pit

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Condition Reportription

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C-9

Grant Larkin

From: ZABASKI, STEPHEN J [SZABASK@entergy.com]
Sent: Wednesday, November 05, 2008 4:34 PM
To: Grant Larkin
Subject: FW: AR PIT #2 samples

Importance: High

Steve Zabaski
Sr. Nuclear Chemistry Specialist
Entergy - River Bend Station
8-558-4711 / (225)381-4711

From: ZABASKI, STEPHEN J
Sent: Wednesday, November 05, 2008 16:16
To: LARKIN, GRANT
Subject: FW: AR PIT #2 samples
Importance: High

Steve Zabaski
Sr. Nuclear Chemistry Specialist
Entergy - River Bend Station
8-558-4711 / (225)381-4711

From: MICHURA, BROUGHTON T
Sent: Wednesday, November 05, 2008 15:26
To: HEATH, ROBERT W; SPELL, WILLIAM H; HOLLAND, WARREN K; HUFFSTATLER, VICTOR; ZABASKI, STEPHEN J;
RAYMOND, MICHAEL R; HALLARAN, KEN
Cc: Wilson, Lynn Barrow; ROBINSON, ARTHUR; HILLIARD, ROBERT W
Subject: RE: AR PIT #2 samples
Importance: High

RBS-CR-2008-06385

Sampling of ARV PIT #2 for an Environmental release sample prior to pumping out the pit to allow work, Co-60 was identified with a value of 194 pCi/Kg (or 1.94E-07uCi/g). The following components are identified as being in the pit: ICWS-ARV8, 1MWS-ARV2, and 1WTL-ARV4.

Notified Chemistry/ESG/Rad Protection management of the results. The Re-sample confirmed the present of Co-60 187 pCi/KG (or 1.87E-07 uCi/g) in the mud. Tritium is being counted. Sampled the soil around the pit area found only natural isotopes.

Update Tritium = 2094.61 pCi/L or 2.09E-6 uCi/ml

BUDDY MICHURA
RBS REMP LAB
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Offsite Notification of Tritium Identified in Water Samples from Piping Leak

This is a report of a situation, related to the protection of the environment, for which a notification to other government agencies is being made, as described in 10CFR50.72(b)(2)(xi).

On January 17, 2008, at approximately 1300 hours, site environmental monitoring personnel at River Bend Station completed analysis which confirmed the presence of tritium in water samples taken from a piping leak that occurred on January 16, 2008, on plant property. The source of the tritium was from water that had been treated in the liquid radwaste system and was suitable for release. The Louisiana Department of Environmental Quality and other state and local officials are being notified in accordance with the voluntary NEI groundwater protection initiative.

The following is a summary of the events that led up to the identification of tritium in the water sample.

On January 16, 2008, at approximately 1750 hours with the plant shutdown in Mode 5 (Refueling), River Bend Station personnel identified a water leak from a cooling tower blowdown line. The design of this system takes water from the plant's cooling tower basin. This water mixes with treated water being discharged from the liquid radwaste system. The diluted blowdown is then discharged to the Mississippi River.

Plant operators received a low blowdown line flow alarm and immediately terminated the discharge of water from the liquid radwaste system. The cooling tower blowdown pumps were also subsequently stopped. The leak was caused by a failure of the blowdown piping.

The leak was located inside the owner controlled area near the plant's cooling towers. Based on the location of the leak, the water drained to a nearby storm drain and into East Creek (Outfall 3). East Creek exits the plant site and discharges to the Mississippi River. The volume of the spill has been estimated to be less than 720 gallons of water from the radwaste system. This water had been treated and was suitable for release. Additional clean water from the cooling tower basin mixed with the water from the liquid radwaste system and was released. The analysis of a water sample, taken at the discharge point to East Creek determined that the samples contained 28,042 Pico Curies per liter (pCi/l) tritium. The NRC reporting level for a non-drinking water pathway is 30,000 pCi/l. *30 day special report* Samples taken directly at the location of the leak contained 129,456 pCi/l tritium. The release has no potential to impact the health and safety of the public. RBS personnel are investigating the cause of the leak and will not restore blowdown until action is taken to prevent further occurrence.

S Stephen Johnson