

*Armed Team*

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## AR 00328451 Report

Aff Fac:	Braidwood	AR Type:	CR	Status:	APPROVED
Aff Unit:	NA	Owed To:	A8932CAP	Due Date:	03/30/2006
Aff System:	XX			Event Date:	04/01/2005
CR Level/Class:	4/D			Disc Date:	04/25/2005
How Discovered:	H02			Orig Date:	04/25/2005
WR/PIMS AR:					

## Action Request Details

**Subject:** TRITIUM INDICATED IN SAMPLES TAKEN FROM ONSITE CULVERT

**Description:**

Originator: JANICE M KUCZYNSKI Supv Contacted: K. Polson, Dale Ambler

**Condition Description:**

Two samples results from onsite property located on the downstream side of the culvert at the old A entrance gate came back from the vendor with Tritium indicated on the results. Specifically, the analysis results from Environmental Inc. Midwest Laboratory (EIML) indicated results of 539 +/-121 pCi/L Tritium (sampled on 03/24/05) and 582.963 +/-112.314 pCi/L Tritium (sampled on 04/07/05). These sample results are well within regulatory criteria for tritium for drinking water annotated in 40CFR141.16, Table A which is 20,000 pCi/L. Additionally this activity is less than the unconditional release lower limit of detection for Tritium which is 2000 pCi/L (ODCM Table 12.5-3). This activity is less than the effluent concentration limits annotated in 10CFR20, Appendix B, Table 2, Column 2 which is 1E-3 microcurie/ml (=1E6 pCi/L). The ODCM limit for instantaneous release is 10 times the concentration values listed in 10CFR20 Appendix B, Table 2, Column 2 (i.e., 1E-2 microcuries/ml = 1E7 pCi/L).

The station should determine if this is an unplanned release in accordance with the ODCM. If so, then this should be added to the 2005 Annual Radiological Effluent Release Report required by ODCM Section 12.6.2. Additionally, the station should document this tritium activity in accordance with 10CFR50.75g requirements.

The station is developing a plan (assign ATI to Chemistry alert group 8932) to deal with this issue to better understand the source of tritium. This plan will be completed shortly and should be tracked by ATI assigned by this issue report (due date 06/14/05). Additionally, the site is working on a longer term tritium reduction plan under the senior sponsorship of the RP Manager - this plan is expected to be completed shortly by RP (assign ATI to RP alert group) and the actions should be tracked by this issue report.

**Immediate actions taken:**

Follow-up Tritium sample taken on 04/07/05.

**Recommended Actions:**

Finalize the plan (assign ATI to Chemistry alert group 8932) to deal with this issue to better understand the source of tritium. Assign an ATI for

*→ current run  
also sent  
also R 13.*

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this issue report (due date 06/14/05). Additionally, finalize the longer term tritium reduction plan under the senior sponsorship of the RP Manager - this plan is expected to be completed shortly by RP (assign ATI to RP alert group) and the actions should be tracked by this Issue report.

Operable Basis:

Reportable Basis:

Issue states that the levels are below reportability limits.

SOC Reviewed by: SHIRLEY J HAYNES 04/27/2005 11:09:04 CDT

SOC Comments:

CA's have been created to Chemistry and Rad Protection for the action plans.

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If the station determines that this is an unplanned release then an ACIT needs to be created to Chemistry to include in the 2005 Annual Radiological Effluent Release Report which will be issue in May 2006. MLM 04/25/05

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Per the Chemistry Manager, a department evaluation is not needed. The information is in the originator section of the IR. An evaluation will not provide any additional information. Station Management is aware of the issue. The CA's for the action plans are what is needed and will track this issue. MLM 4/26/05

ATI CREATED TO ADDRESS INCLUSION IN 2005 ANNUAL REPORT. SOC 4/27/05

Reviewed by: MARCIA L MORRIS 04/26/2005 12:09:08 CDT

Reviewer Comments:

Per the Chemistry Manager, a department evaluation is not needed. The required information is in the originator section of the IR. Senior Station Management is aware of the issue. All required actions are known and there are detailed plans in place to address this issue. MLM 4/26/05

**Trend Codes**

TC1	TC2	TC3	Proc	Org	Rank
PRPM	PRPO	SIS	RP15	CH	P

**Assignments**

<b>Assign #:</b>	<u>01</u>	<b>Assigned To:</b>		<b>Status:</b>	COMPLETE
<b>Aff Fac:</b>	Braidwood	<b>Prim Grp:</b>	ACAPALL	<b>Due Date:</b>	04/30/2005
<b>Assign Type:</b>	TRKG	<b>Sec Grp:</b>		<b>Orig Date:</b>	04/30/2005
<b>Priority:</b>					
<b>Schedule Ref:</b>					
<b>Unit Condition:</b>					
<b>Subject/Description:</b>	TRITIUM INDICATED IN SAMPLES TAKEN FROM ONSITE CULVERT				

<b>Assign #:</b>	<u>02</u>	<b>Assigned To:</b>	BRZJE	<b>Status:</b>	ACC/PRI
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<b>Aff Fac:</b>	Braidwood	<b>Prim Grp:</b>	A8932CHEM	<b>Due Date:</b>	06/14/2005
<b>Assign Type:</b>	CA	<b>Sec Grp:</b>		<b>Orig Date:</b>	06/14/2005

**Priority:****Schedule Ref:****Unit Condition:**

**Subject/Description:** Develop short term plan to deal with the issue and to better understand the source of tritium. Assign additional actions as necessary per the plan.

<b>Assign #:</b>	<u>03</u>	<b>Assigned To:</b>	NUCXG	<b>Status:</b>	NTFY/ASG
<b>Aff Fac:</b>	Braidwood	<b>Prim Grp:</b>	A8931RP	<b>Due Date:</b>	06/14/2005
<b>Assign Type:</b>	CA	<b>Sec Grp:</b>		<b>Orig Date:</b>	06/14/2005

**Priority:****Schedule Ref:****Unit Condition:**

**Subject/Description:** Develop / finalize long term tritium reduction plan. Action items need to be assigned for each action plan item.

<b>Assign #:</b>	<u>04</u>	<b>Assigned To:</b>	BRWMN	<b>Status:</b>	ACC/PRI
<b>Aff Fac:</b>	Braidwood	<b>Prim Grp:</b>	A8932CHEM	<b>Due Date:</b>	03/30/2006
<b>Assign Type:</b>	ACIT	<b>Sec Grp:</b>		<b>Orig Date:</b>	03/30/2006

**Priority:****Schedule Ref:****Unit Condition:**

**Subject/Description:** EVALUATE THIS ISSUE FOR INCLUSION IN THE 2005 ANNUAL REPORT. CREATE FURTHER ATIS IF NECESSARY.