

DOCUMENT REVISION STATUS

ISSUE NUMBER	DESCRIPTION OF CHANGE	DATE	ECN #
-	INITIAL RELEASE	4/20/07	N/A

APPROVALS

APPROVED: PROCESS ENGINEERING: *Peter E. McLaughlin* DATE: 4/30/2007

APPROVED: ENGINEERING MANAGER: *M. W. [Signature]* DATE: 4/30/07

APPROVED: MANUFACTURING MANAGER: *Ralph [Signature]* DATE: 4-30-07

APPROVED: QUALITY ASSURANCE MANAGER: *[Signature]* DATE: 5/4/07

1.0 PURPOSE:

- 1.1 This document details when to carry-out urine collection for analysis on employees working with or exposed to radiation and how to properly respond to the results of that analysis.

2.0 PROCEDURE:

- 2.1 Urine samples will be collected from all radiation workers handling or exposed to 10 or more millicuries of 3-H (tritium) in any form on a bi-weekly basis.

- 2.2 Sample volumes to be collected will be approximately 50mL.

- 2.3 Analysis of urine samples will be conducted by a qualified outside vendor or consultant the results of which will be sent to the RSO for final review in a timely fashion.

- 2.3.1 If the results are greater than twice background and less than 10 percent of maximum permissible body burden:

- a. Subject(s) will be monitored by repeat urinalysis on a weekly basis until the levels have returned to less than twice background.
- b. The RSO will conduct an investigation into the cause of the uptake and will correct the problem.
- c. A log of the incident will be maintained by the RSO for review by outside agencies.
- d. Records of all urinalysis will be maintained by the RSO for review by outside agencies.

- 2.3.2 If the results are greater than 10% maximum permissible body burden of tritium:

- a. Subject(s) will be monitored by repeat urinalysis on a weekly basis until the levels have returned to less than twice background.
- b. The RSO will conduct an investigation into the cause of the uptake and will correct the problem.
- c. A log of the incident will be maintained by the RSO for review by outside agencies.
- d. A report of the incident will be maintained by the RSO for review by outside agencies.
- e. All appropriate agencies will be contacted by the RSO within the required time frame of notification.
- f. Records of all urinalysis will be maintained by the RSO for review by outside agencies.