Assessment of Storm Drain Tritium Discharges

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ABSTRACT

Discovery of measurable tritium in the yard storm drain system represented a radiological effluent discharge pathway for which no prior dose assessment had been performed. In such cases NRC generic letter 80-10 requires dose impact to members of the public to be determined.

As this release to the environment did not occur through the normal effluent discharge pathway, it was necessary to develop the appropriate pathway dilution factors. Based upon the determined environmental dilution a conservative dose assessment was performed giving assurance that the releases are well below any regulatory commitments.