





# ARTICLE 44 – PILGRIM DECOMMISSIONING RADIOLOGICAL CLEANUP STANDARD

Lifetime Exposure (millirem/year)			70 year Risk of Developing Any Cancer	
Current MA limit for <u>Unrestricted Use</u> for its licensees. <u>Does not Apply to Pilgrim, an NRC licensee</u>	10		70/100,000	(0.7/1,000)
NRC Limit for <u>Unrestricted Use</u>	25		175/100,000	(1.75/1,000)
NRC & MA Limits for <u>Restricted Use</u>	100		700/100,000	(7/1,000)
NRC & MA Limits for <u>Restricted Use</u>	500		3,500/100,000	(35/1,000)
<b>Risk of Fatal Cancer</b> is one half to two thirds the risk of developing <u>any</u> cancer. The level of risk for radionuclides is significantly higher than for chemicals.			<b>Reproductive disorders</b> occur at lower levels of radiation exposure than cancer. DEP's risk level goal for a <b>mixture of chemicals</b> is a lifetime cancer incidence risk of <b>1 in 100,000</b> . DEP risk level goal for <b>one chemical</b> is a lifetime cancer incidence risk of <b>1 in a million</b> .	
Based on Radiation: BEIR VII Phase 2. Washington, DC: The National Academies Press; 2006				