§81.25 Guidelines for claims including two or more primary cancers.

For claims including two or more primary cancers, DOL will use NIOSH-IREP to calculate the estimated probability of causation for each cancer individually. Then DOL will perform the following calculation using the probability of causation estimates produced by NIOSH-IREP:

**EQUATION 1**

\[
1 - \left[ \prod_{i=1}^{n} (1 - PC_i) \right] = PC_{total},
\]

where \( PC_i \) is the probability of causation for one of the primary cancers identified in the claim, \( PC_2 \) is the probability of causation for a second primary cancer identified in the claim, and \( PC_{total} \) is the probability that at least one of the primary cancers (cancers 1 through “n”) was caused by the radiation dose estimated for the claim when Equation 1 is evaluated based on the joint distribution of \( PC_1, \ldots, PC_n \). DOL will use the probability of causation value calculated for \( PC_{total} \) to adjudicate the claim.

PART 82—METHODS FOR CONDUCTING DOSE RECONSTRUCTION UNDER THE ENERGY EMPLOYEES OCCUPATIONAL ILLNESS COMPENSATION PROGRAM ACT OF 2000

Subpart A—Introduction

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82.1 What is the purpose of this part?

82.2 What are the basics of dose reconstruction?
82.3 What are the requirements for dose reconstruction under EEOICPA?
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Subpart B—Definitions

82.5 Definition of terms used in this part.