

#### **4. CAUSAL FACTORS**

##### **Causal Factor #1**

HFEO #1 and HFEO #2 decided to extract the stuck dozer without waiting for additional resources. (Findings #3, #7 and #8)

##### **Causal Factor #2**

There are no records indicating that HFEO #1 trained on or operated a differential steer bulldozer. Witness statements indicate that HFEO #1 was never trained on nor operated a Caterpillar D6N-XL bulldozer (D4641). (Findings #1 and #24)

##### **Causal Factor #3**

HFEO #2 had no handie-talkie with which to alert HFEO #1 that his situation was becoming perilous and could only wave his arms in warning. (Findings #9 and #11)

##### **Causal Factor #4**

HFEO #1 was not wearing a helmet and his dozer was equipped with only a single lap belt restraint system. (Findings # 4, #10, #12, #13, and #14)