

DOCKETED

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Comment Received From: Troy Stabile
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Health Effects of BESS Fire

Additional submitted attachment is included below.

My name is Troy Stabile. I am a 21 year resident of Vacaville, CA.

Corby as well as the EIR indicates that exposure to the toxic chemicals (nickel, cobalt and manganese) that are produced by lithium ion batteries thermal runaway is safe and that there is no reason for concern, but in fact the medical profession as well as science tells us otherwise.

what are the health implications after being exposed to cobalt, nickle and manganese?

Severe acute or massive exposure to high levels of nickel, cobalt, and manganese can cause death in humans by damaging vital organs like the heart, lungs, and brain.

While these metals exist in small, safe amounts in daily life, massive poisoning—often through accidental swallowing, extreme industrial exposure, or toxic inhalation—leads to multi-organ failure and death.

Exposure to cobalt, nickel, and manganese—often combined in industrial settings or manufacturing like lithium-ion batteries—can lead to toxic effects across multiple organ systems, driven heavily by oxidative stress and inflammation.

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Respiratory System

- **Lung damage:** Breathing in dust or fumes containing these metals causes local inflammation and irritation in the nose and throat.
- **Fibrosis and asthma:** Cobalt and nickel inhalation can lead to chronic conditions like hard metal lung disease, asthma-like symptoms, decreased exercise tolerance, and pulmonary fibrosis.

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- Nervous System
- **Manganism and neurotoxicity:** Manganese is a potent neurotoxicant. Overexposure can cause a severe neurological condition similar to Parkinson's disease (manganism), marked by tremors, motor deficits, cognitive impairment, and psychological changes.

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- **Systemic nerve issues:** Cobalt exposure can also contribute to peripheral nerve damage, ringing in the ears (tinnitus), and hearing loss.

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Cardiovascular and Systemic Effects

- **Cardiomyopathy:** Prolonged systemic exposure to cobalt is linked to cardiomyopathy, a serious condition where the heart muscle enlarges and struggles to pump blood effectively.
- **Organ injury:** Accumulated ions from these metals can impair liver and kidney function, as well as disrupt thyroid hormone production.

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Carcinogenicity and Skin Sensitivity

- **Cancer risk:** Nickel is a classified human carcinogen and genotoxin, while certain cobalt compounds are reasonably anticipated to cause cancer.

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- **Skin irritation:** Dermal contact with nickel and cobalt frequently triggers allergic skin reactions, contact dermatitis, and slow-healing rashes.

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The moss landing battery fire burned for three days. Sheltering in place does not protect us from inhaling the fallout from the plume which is in the form of soot and a fine dust containing nanoparticles of cobalt, nickel and manganese. When these metals are inhaled together they display cumulative or synergistic toxicity. Combined exposure leads to alveolar fusion (walls between air sacs breaking down), structural breakdown, and disrupted metal balances in the body. These tiny particles settle in to the lining of our lungs and find their way into our blood stream, our kidneys and our liver.

One single, high dose of exposure to these toxins can make a human being severely sick and for those who are immune compromised it can be fatal. They cause respiratory failure, kidney failure, liver failure, cancer, birth defects, etc. Fires that last three days and exposure to these chemicals for a 20 year period is long term exposure and extremely dangerous.

Your report speaks about the impact on eagles. Eagles are smart enough to remove themselves from danger. They can simply spread their wings, fly away and not return to the dangerous toxic environment. We can't walk away from our homes and our families. We can't stop the nanoparticles from entering our lungs and contaminating the surfaces inside our homes.

Does the CEC truly believe that these batteries are safe for our communities? Do you truly believe that thermal runaway will not occur in a 20 year period? If your 10 month old grandson lived one mile away would you still feel that the Corby project is safe? If your elderly parents lived across the street from the proposed site would you feel that there is nothing to be concerned about and encourage them to continue living there? Would you want to live directly across the street from 40 acres of lithium ion batteries.

The proposed site is not safe and the use of lithium ion batteries is not safe. We wouldn't even be here today if the location was far away from our homes, our schools, our hospital, our grocery stores, our farmland, and if Corby was proposing the use of non-flammable batteries.

Please deny Corby's application. Have them go back to the drawing board using Lambie as the location and the use of lithium iron phosphate batteries or flow batteries.

This is a solution that provides safety for our 103,000 plus residents, that protects our agricultural land and produces stored energy.