

Memorandum

To: File
CC:
From: Chris Garrett, SWCA
Date: March 4 2015
Re: Clarification of Air Emission Factor Revisions

On March 21, 2014, representatives from the Coronado National Forest met with representatives of Caterpillar, Inc. at the Tinaja Hills testing facility in Green Valley, Arizona. Caterpillar is the manufacturer of much of the mobile mine equipment to be purchased by Rosemont Copper, and the purpose of the meeting was to discuss timing and phasing of more stringent emission requirements (specifically, Tier 4 engines).

As a result of this discussion, on April 9, 2014 Caterpillar provided updated emission factors for particulate matter (PM), nitrogen oxides (NO_x), or carbon monoxide (CO), for Tier 2 equipment currently available for purchase. Clarification was requested regarding the measurement units, and additional information was provided by Caterpillar on April 18, 2014. Upon review, the Coronado determined that some of these emission factors differed from those used for the air quality modeling in the FEIS. As part of preparing the Supplemental Information Report (currently still in draft form) the Coronado investigated the effect these emission factors would have on overall emissions totals.

Additional total emission calculations based on these emission factors were requested from Rosemont Copper by the Coronado and provided on January 16, 2015. Upon review of these results, the Coronado realized that the request had not been clearly made, and Rosemont Copper had inadvertently replaced emission factors for all equipment with the revised Tier 2 emission factors from Caterpillar and the calculations would not be representative of their operations. The intention had been to only replace the emission factors for those pieces of equipment that would have Tier 2 engines, while leaving emission factors for all Tier 4 engines as they previously were. This was discussed with Rosemont and revised calculations were provided to the Coronado on February 3, 2015.

The February 3, 2015 letter from Rosemont Copper supersedes the January 16, 2015 letter. The calculations from the February 3, 2015 letter are analyzed in the Supplemental Information Report for comparison to the FEIS disclosure.