

EagleRockPEm Resource

From: KAY Jim (AREVA US) [Jim.Kay@areva.com]
Sent: Friday, March 26, 2010 2:15 PM
To: Reilly, Breeda; Lemont, Stephen; Biber, Bruce M.
Subject: Confirmation on EREF Grading and Cut and Fill Numbers

Steve,

You requested confirmation of two numbers - 407.5 acres for grading and 27.5 million for cut and fill.

I went back and looked at the history behind these numbers and validated the basis for each. Our response is below:

The following are excerpts from Rev. 0 and Rev. 1 of the ER (Section 4.1.1). As indicated below, the graded acres increased in Rev. 1, but the cut and fill values remained the same as those in Rev. 0 (because the total disturbed area did not change).

Rev. 0

Construction activities, including permanent plant structures, will disturb about **165 ha (407 ac)**. Temporary construction facilities, parking areas, material storage, and excavated areas for underground utilities will disturb an additional **75 ha (185 ac)**. The total disturbed area will, therefore, be **240 ha (592 acres)**.

Approximately **147 ha (363 ac)** will be graded to bring the developed central footprint portion (i.e., building clusters and storage pads that drain to the stormwater basins) of the site to a final grade between 1,573 m (5,161 ft) to 1,585 m (5,200 ft) above msl at the stormwater detention basin. The material excavated will be used for on-site fill. Site preparation will include the cutting and filling of approximately **778,700 m³ (27,500,000 ft³)** of soil with the deepest cut being 6 m (20 ft) and the deepest fill being 6 m (20 ft).

Rev. 1

Construction activities, including permanent plant structures, will disturb about **186 ha (460 ac)**. Temporary construction facilities, parking areas, material storage, and excavated areas for underground utilities will disturb an additional **53.6 ha (132.5 ac)**. The total disturbed area will, therefore, be **240 ha (592 acres)**.

Approximately **164.9 ha (407.5 ac)** will be graded to bring the developed central footprint portion (i.e., building clusters and storage pads that drain to the stormwater basins) of the site to a final grade between 1,573 m (5,161 ft) to 1,585 m (5,200 ft) above msl at the stormwater detention basin. The material excavated will be used for on-site fill. Site preparation will include the cutting and filling of approximately **778,700 m³ (27,500,000 ft³)** of soil with the deepest cut being 6 m (20 ft) and the deepest fill being 6 m (20 ft).

The total disturbed area did not increase even though the acreage of proposed development increased because temporary construction facilities could utilize the future areas set aside for the 6.6 expansion area which was the reason for the increase in proposed development area from the 3.3 to 6.6 permanent development. Therefore, as the permanent area acreage increased, the additional disturbed acreage for temporary facilities decreased for no net change in the total disturbed area.

The cut/fill volume did not change based on the fact that the overall disturbed area did not change as stated above. Additionally the primary area where the most cut/filling earthwork is required did not change/expand. Additionally cut/fill volumes used for 3.3 already included disturbing future 6.6 expansion areas because of the issue of blasting rock during the 3.3 phase construction because

future blasting for 6.6 construction would not be allowed once portions of the 3.3 facility was operational. The estimating of average finished site grades and the volume estimating was based on the USGS Topographical Quadrangle sheet which has a contour interval of 10 feet. The aerial topography developed for the site was not available when the license documents were prepared.

Call if you need any additional information.

Jim

Jim Kay

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From: KAY Jim (AREVA US)

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Recipients:

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Tracking Status: None
"Lemont, Stephen" <Stephen.Lemont@nrc.gov>
Tracking Status: None
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