

| <b>DOCKETED</b>         |                                      |
|-------------------------|--------------------------------------|
| <b>Docket Number:</b>   | 23-ERDD-07                           |
| <b>Project Title:</b>   | Long Duration Energy Storage Program |
| <b>TN #:</b>            | 259734                               |
| <b>Document Title:</b>  | Appendix B - Noise (HERC)            |
| <b>Description:</b>     | N/A                                  |
| <b>Filer:</b>           | Archal Naidu                         |
| <b>Organization:</b>    | California Energy Commission         |
| <b>Submitter Role:</b>  | Commission Staff                     |
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# Appendix B

## Noise

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## Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/23/2024

Case Description: Construction

Description Land Use  
Construction Ranch House Chapel

| Description          | Impact Device | Usage(%) | Equipment       |                   | Receptor Distance (feet) |
|----------------------|---------------|----------|-----------------|-------------------|--------------------------|
|                      |               |          | Spec Lmax (dBA) | Actual Lmax (dBA) |                          |
| Backhoe              | No            | 40       |                 | 77.6              | 1584                     |
| Auger Drill Rig      | No            | 20       |                 | 84.4              | 1584                     |
| Compactor (ground)   | No            | 20       |                 | 83.2              | 1584                     |
| Compressor (air)     | No            | 40       |                 | 77.7              | 1584                     |
| Crane                | No            | 16       |                 | 80.6              | 1584                     |
| Concrete Mixer Truck | No            | 40       |                 | 78.8              | 1584                     |
| Dozer                | No            | 40       |                 | 81.7              | 1584                     |
| Excavator            | No            | 40       |                 | 80.7              | 1584                     |
| Dump Truck           | No            | 40       |                 | 76.5              | 1584                     |
| Flat Bed Truck       | No            | 40       |                 | 74.3              | 1584                     |
| Generator            | No            | 50       |                 | 80.6              | 1584                     |
| Tractor              | No            | 40       | 84              |                   | 1584                     |
| Welder / Torch       | No            | 40       |                 | 74                | 1584                     |

### Results

#### Calculated (dBA)

| Equipment            | *Lmax       | Leq         |
|----------------------|-------------|-------------|
| Backhoe              | 47.5        | 43.6        |
| Auger Drill Rig      | 54.3        | 47.4        |
| Compactor (ground)   | 53.2        | 46.2        |
| Compressor (air)     | 47.7        | 43.7        |
| Crane                | 50.5        | 42.6        |
| Concrete Mixer Truck | 48.8        | 44.8        |
| Dozer                | 51.7        | 47.7        |
| Excavator            | 50.7        | 46.7        |
| Dump Truck           | 46.4        | 42.5        |
| Flat Bed Truck       | 44.2        | 40.3        |
| Generator            | 50.6        | 47.6        |
| Tractor              | 54          | 50          |
| Welder / Torch       | 44          | 40          |
| <b>Total</b>         | <b>54.3</b> | <b>56.9</b> |

\*Calculated Lmax is the Loudest value.