

# MEMO

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**Date:** August 17, 2021  
**To:** Creed Eckert, Planner  
City of Tangent, Oregon  
**From:** Kerrie Standlee, P.E.  
**Re:** L&M Night Door Proposal  
DSA File #: 101201

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## Message:

At your request, I reviewed L&M Fabrication's proposed *Night Door Proposal* document and the February 19, 2021, ABD Engineering & Design report entitled, *L&M Fabrication – Nighttime Open Door Noise Study* submitted by L&M in support of their proposal. The proposal and report were submitted to the City of Tangent, Oregon in preparation for a request to the Planning Commission asking for a change in the open-door limits included in the CUP approved for the business. This memo provides my thoughts concerning L&M's proposal and the report submitted as support for the request.

From a review of L&M's open-door proposal, the company appears to be proposing doors be allowed open, at will, between 7 PM and 7 AM on the east side of the Industrial Building (Door 1, 2 and 3 of Figure 3 in the ABD report) and on the north and south ends of the Structural Building (Door St-NW and St-S in Figure 3 of the ABD report). L&M is also proposing that doors be allowed open only for material movement as needed in and out of buildings between 7 PM and 7AM on the south end of the Paint Shop (Paint door in Figure 3 of the ABD report) and on the west side of the south end of the industrial building (Door 9 in Figure 3 of the ABD report).

During my initial review of the ABD Engineering & Design report submitted by L&M, I noted a couple of items that could have a bearing on my conclusions. First, the report did not mention if the analysis included any noise radiating from forklifts moving material outside the buildings. In addition, the report does not explain if the calculated noise levels in the tables assumed that all doors were open at the same time or if only the door nearest a specific noise source was assumed open.



## L&M Night Door Proposal

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To help clear up any misunderstanding I had about the ABD analysis, I contacted Mr. Ben Wolf, the author of the report. Mr. Wolf told me that the analysis of short-term and long-term noise levels (Tables 6 and 7 of the report) assumed that all doors identified in Figure 3 of the report were open at the same time. Mr. Wolf also said that the short-term noise levels shown in Table 6 were a result of material handling equipment (forklifts) operating outside the building rather than inside the building. Finally, Mr. Wolf told me that the long-term noise levels shown in Table 7 captured the amount of noise that would radiate out the open doors of the buildings assuming that all sources inside the buildings were operating simultaneously.

Finally, Mr. Wolf and I discussed how it would be beneficial to have an appendix to the report showing where the noise source data was measured and any other information that could help explain how the data is used in the model. After discussing what information would be helpful within the appendix, Mr. Wolf said an appendix with that information would be provided to L&M for submittal to the record prior to the hearing on Thursday, August 19.

Given the information I learned from my conversation with Mr. Wolf, I can now conclude that the noise radiating from the L&M Fabrication facility will comply with the limits specified in the DEQ noise control regulations for industry and commerce (OAR 340-035-0035) if L&M's open-door proposal is approved by the Planning Commission.

Let me know if you have any questions.

