



January 31, 2025

Chris Hall
Capital Design Services, LLC
2101 4th Avenue E, Suite 202
Olympia, WA 98506

Re: Acoustical Report – AT&T PD31 Bethany Crest
Site: 13937 NW Springville Road, Portland, OR 97229

Dear Chris,

This report presents a noise survey performed in the immediate vicinity of the proposed AT&T telecommunications facility at 13937 NW Springville Road in Portland, Oregon. This noise survey extends from the proposed equipment to the nearest receiving properties. The purpose of this report is to document the existing conditions and the impacts of the acoustical changes due to the proposed equipment. This report contains data on the existing and predicted noise environments, impact criteria and an evaluation of the predicted sound levels as they relate to the criteria.

Code Requirements

The site is located within the Multnomah County zoning jurisdiction on parcel with an MUA zoning. The receiving properties to the east and south east are all zoned MUA. The receiving properties to the north west and south west are zoned EFU.

The proposed new equipment includes equipment support cabinets and an emergency generator. The cabinets are expected to run intermittently 24 hours a day. The generator will operate during daytime hours for maintenance testing or during a power outage.

Multnomah County Code Chapter 39.7740(3) states: Noise levels should not exceed 5 dBA above ambient levels or 55 dBA Sound Pressure Level, whichever is greater, on adjacent properties.

Operation of a back-up generator in the event of power failure or the testing of a back-up generator between 8 AM and 8 PM are exempt from this standard. No testing of back-up power generators shall occur between the hours of 8 PM and 8 AM.

Ambient Conditions

Existing ambient noise levels were measured on site with a Svantek 971 sound level meter on January 29, 2025. Measurements were conducted in accordance with Oregon Administrative Rules (OAR) 340-35-035 subsection (3)(b). The average ambient noise level was 47 dBA.

Predicted Equipment Sound Levels

24-Hour Operation Equipment

The following table presents a summary of the equipment and their associated noise levels:

Table 1: Equipment Noise Levels

Equipment	dBA (each)	Quantity	Combined dBA @ 5 ft
Vertiv NetSure X701 Walk-Up-Cabinet	70 dBA @ 5 ft	1	70
Total dBA (All cabinets combined)			70

Methods established by ARI Standard 275-2010 and ASHRAE were used in predicting equipment noise levels to the receiving properties. Application factors such as location, height, and reflective surfaces are accounted for in the calculations.

The equipment will be located at grade surrounded by a wood framed equipment enclosure with a shed roof which is open above 10'-0". The shed roof is angled toward one side with the low end (at approximately 11'-6" above grade) on the west side and the high end (at approximately 15'-0" above grade) on the east side. The nearest receiving property is approximately 160 feet south of the equipment. The following table presents the predicted sound level at the nearest receiving property:

Table 2: Predicted Noise Levels: Proposed Equipment Cabinets

Line	Application Factor	S
1	Sound Pressure Level at 5 ft (dBA), Lp1	70
2	Noise Reduction – Wood Enclosure	-7
3	Distance Factor (DF) Inverse-Square Law (Free Field): $DF = 20 \cdot \log(d1/d2)$	-30 (160 ft)
4	New Equipment Sound Pressure Level at Receiver, Lpr (Add lines 1 through 3)	33

As shown in Table 2, the predicted sound level from the proposed equipment is 33 dBA at the nearest receiving property, which meets the 55 dBA code limit.

Noise levels at other receiving properties, which are further away, will be lower and within code limits.

Please contact us if you have any questions or require further information.

Sincerely,
SSA Acoustics, LLP



Alan Burt, P.E.
PARTNER
ACOUSTICAL CONSULTANT



RENEWAL DATE: 12/31/25

This report has been prepared for the titled project or named part thereof and should not be used in whole or part and relied upon for any other project without the written authorization of SSA Acoustics, LLP. SSA Acoustics, LLP accepts no responsibility or liability for the consequences of this document if it is used for a purpose other than that for which it was commissioned. Persons wishing to use or rely upon this report for other purposes must seek written authority to do so from the owner of this report and/or SSA Acoustics, LLP and agree to indemnify SSA Acoustics, LLP for any and all resulting loss or damage. SSA Acoustics, LLP accepts no responsibility or liability for this document to any other party other than the person by whom it was commissioned. The findings and opinions expressed are relevant to the dates of the works and should not be relied upon to represent conditions at substantially later dates. Opinions included therein are based on information gathered during the study and from our experience. If additional information becomes available which may affect our comments, conclusions or recommendations SSA Acoustics, LLP reserves the right to review the information, reassess any new potential concerns and modify our opinions accordingly