

Appendix C  
**HUD Acceptable Separation  
Distance Memorandum**



# technical memorandum

date December 19, 2024  
to Project File [North Fairview Street, 202400309.05]  
from Michael Burns, PG  
subject HUD Acceptable Separation Distance for North Fairview Street, Burbank Project Site

The Department of Housing and Urban Development (HUD) requires a minimum Acceptable Separation Distance (ASD) between a HUD-assisted project and above ground stationary containerized hazards of an explosive or fire prone nature. Environmental Science Associates (ESA) understands that the North Fairview Street project is seeking HUD funding.

ESA contacted the Burbank Fire Department (BFD) to identify the locations of nearby above ground storage tanks (ASTs) containing hazards of an explosive or fire prone nature; fire departments are the agencies that track and inspect ASTs. Note that the U.S. Department of Homeland Security requires that the exact location of such ASTs should not be published due to security concerns. Thus, only the distance is identified.

The BFD identified the nearest AST to be a 3,000-gallon anhydrous ammonia AST located 1,335 feet from the project site. The AST is 14 feet high and 6 feet in diameter. The AST contents, size, and distance were input into the HUD Acceptable Separation Distance (ASD) Electronic Assessment Tool at their website of: <https://www.hudexchange.info/environmental-review/asd-calculator/>. The results are attached to this technical memorandum. The results indicate that the ASD for Thermal Radiation for People is 437.09 feet, and the ASD for Thermal Radiation for Buildings is 83.56 feet. Given that the proposed project site is located at a distance of 1,335 feet away, this is considered to be an ASD.

Attachment: HUD Acceptable Separation Distance (ASD) Electronic Assessment Tool

# Acceptable Separation Distance (ASD) Electronic Assessment Tool

The Environmental Planning Division (EPD) has developed an electronic-based assessment tool that calculates the Acceptable Separation Distance (ASD) from stationary hazards. The ASD is the distance from above ground stationary containerized hazards of an explosive or fire prone nature, to where a HUD assisted project can be located. The ASD is consistent with the Department's standards of blast overpressure (0.5 psi-buildings) and thermal radiation (450 BTU/ft<sup>2</sup> - hr - people and 10,000 BTU/ft<sup>2</sup> - hr - buildings). Calculation of the ASD is the first step to assess site suitability for proposed HUD-assisted projects near stationary hazards. Additional guidance on ASDs is available in the Department's guidebook "Siting of HUD- Assisted Projects Near Hazardous Facilities" and the regulation 24 CFR Part 51, Subpart C, Siting of HUD-Assisted Projects Near Hazardous Operations Handling Conventional Fuels or Chemicals of an Explosive or Flammable Nature.

**Note:** Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the ASD result fields with the mouse.

## Acceptable Separation Distance Assessment Tool

Is the container above ground?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container under pressure?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Does the container hold a cryogenic liquified gas?	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Is the container diked?	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>
What is the volume (gal) of the container?	<input type="text" value="3000"/>
What is the Diked Area Length (ft)?	<input type="text"/>
What is the Diked Area Width (ft)?	<input type="text"/>
<input type="button" value="Calculate Acceptable Separation Distance"/>	
Diked Area (sqft)	<input type="text"/>
ASD for Blast Over Pressure (ASDBOP)	<input type="text"/>
ASD for Thermal Radiation for People (ASDPPU)	<input type="text" value="437.09"/>
ASD for Thermal Radiation for Buildings (ASDBPU)	<input type="text" value="83.56"/>
ASD for Thermal Radiation for People (ASDPNPD)	<input type="text"/>
ASD for Thermal Radiation for Buildings (ASDBNPD)	<input type="text"/>

**For mitigation options, please click on the following link:** [Mitigation Options \(/resource/3846/acceptable-separation-distance-asd-hazard-mitigation-options/\)](/resource/3846/acceptable-separation-distance-asd-hazard-mitigation-options/)

### Providing Feedback & Corrections

After using the ASD Assessment Tool following the directions in this User Guide, users are encouraged to provide feedback on how the ASD Assessment Tool may be improved. Users are also encouraged to send comments or corrections for the improvement of the tool.

Please send comments or other input using the [Contact Us \(https://www.hudexchange.info/contact-us/\)](https://www.hudexchange.info/contact-us/) form.

### Related Information

- [ASD User Guide \(/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/\)](/resource/3839/acceptable-separation-distance-asd-assessment-tool-user-guide/)
- [ASD Flow Chart \(/resource/3840/acceptable-separation-distance-asd-flowchart/\)](/resource/3840/acceptable-separation-distance-asd-flowchart/)

