

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

WASHINGTON, DC 20410-1000

This Worksheet was designed to be used by those "Partners" (including Public Housing Authorities, consultants, contractors, and nonprofits) who assist Responsible Entities and HUD in preparing environmental reviews, but legally cannot take full responsibilities for these reviews themselves. Responsible Entities and HUD should use the RE/HUD version of the Worksheet.

Explosive and Flammable Hazards (CEST and EA) – PARTNER

https://www.hudexchange.info/environmental-review/explosive-and-flammable-facilities

1.	Does the proposed HUD-assisted project include a hazardous facility (a facility that mainly stores, handles or processes flammable or combustible chemicals such as bulk fuel storage facilities and refineries)?
	⊠ No
	→ Continue to Question 2.
	□ Yes
	Explain:
	Click here to enter text.
	→ Continue to Question 5.
2.	Does this project include any of the following activities: development, construction, rehabilitation that will increase residential densities, or conversion?
	\square No $ o$ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.
	\boxtimes Yes \rightarrow Continue to Question 3.
3.	Within 1 mile of the project site, are there any current <i>or planned</i> stationary aboveground storage containers:
	 Of more than 100-gallon capacity, containing common liquid industrial fuels OR Of any capacity, containing hazardous liquids or gases that are not common liquid industrial fuels?
	\square No \Rightarrow If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below. Provide all documents used to make your determination.
	\boxtimes Yes \rightarrow Continue to Question 4.
4	4. Is the Separation Distance from the project acceptable based on standards in the Regulation? Please visit HUD's website for information on calculating Acceptable Separation Distance. □ Yes
	→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

□ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to any tanks and your separation distance calculations. If the map identifies more than one tank, please identify the tank you have chosen as the "assessed tank."

5. Is the hazardous facility located at an acceptable separation distance from residences and any other facility or area where people may congregate or be present?

Please visit HUD's website for information on calculating Acceptable Separation Distance.

☐ Yes

→ If the RE/HUD agrees with this recommendation, the review is in compliance with this section. Continue to the Worksheet Summary below.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

□ No

→ Continue to Question 6.

Provide map(s) showing the location of the project site relative to residences and any other facility or area where people congregate or are present and your separation distance calculations.

6. For the project to be brought into compliance with this section, all adverse impacts must be mitigated. Explain in detail the exact measures that must be implemented to make the Separation Distance acceptable, including the timeline for implementation. If negative effects cannot be mitigated, cancel the project at this location.

Note that only licensed professional engineers should design and implement blast barriers. If a barrier will be used or the project will be modified to compensate for an unacceptable separation distance, provide approval from a licensed professional engineer.

Click here to enter text.

Worksheet Summary

Provide a full description of your determination and a synopsis of the information that it was based on, such as:

- Map panel numbers and dates
- Names of all consulted parties and relevant consultation dates
- Names of plans or reports and relevant page numbers
- Any additional requirements specific to your program or region

Include all documentation supporting your findings in your submission to HUD.

Aerial imagery shows land uses within 1 mile are agriculture and residential with supporting commercial uses . Based on California Environmental Protection Agency (CalEPA) Regulated Site Portal was also used to determine if there were any facilities with ASTs within a 1-mile radius of the site. One site with an AST was identified just inside of 1 mile radius of the project site. The Site is listed as an Oil Changers

Facility. The site was listed to have tanks that can hold up to 3,000 gallons of motor oil. The Acceptable Distance Calculator determined that the acceptable distance for Thermal Radiation for People is 437 ft and the acceptable distance for Thermal Radiation for a building is 83 ft. The project is approximately 1,850 feet west of the tank. Therefore, the tanks would not pose a threat to the project. In addition, no ASTs were identified in the Phase I Environmental Site Assessment.

Please see Exhibit 2-F for Phase I Report.



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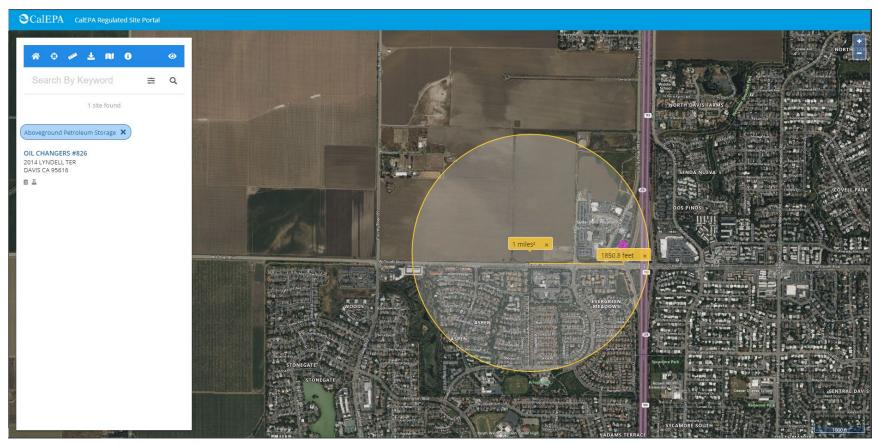


Figure 1. CalEPA Regulated Site Portal AST Map

Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > ASD Calculator

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/ft² - hr - people and 10,000 BTU/ft² - 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, Sitting 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: ☑ No: □	
Is the container under pressure?	Yes: ☑ No: □	
Does the container hold a cryogenic liquified gas?	Yes: ☐ No: ☑	
Is the container diked?	Yes: No:	
What is the volume (gal) of the container?	3000	
What is the Diked Area Length (ft)?		
What is the Diked Area Width (ft)?		
Calculate Acceptable Separation Distance		
Diked Area (sqft)		
ASD for Blast Over Pressure (ASDBOP)	314 95	

, as for stast over 1 ressure (105501)	311.55
ASD for Thermal Radiation for People (ASDPPU)	437.09
ASD for Thermal Radiation for Buildings (ASDBPU)	83.56
ASD for Thermal Radiation for People (ASDPNPD)	
ASD for Thermal Radiation for Buildings (ASDBNPD)	

For mitigation options, please click on the following link: 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/) form.

Related Information

- ASD User Guide (/resource/3839/acceptable-separation-distance-asd-assessment-tooluser-guide/)
- ASD Flow Chart (/resource/3840/acceptable-separation-distance-asd-flowchart/)