

Doss, Gary

From: Smith, Lawrence
Sent: Thursday, January 08, 2015 11:03 AM
To: Doss, Gary
Subject: FW: ASD Calculation

Lawrence I. Smith PP, AICP
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From: Rivera, Nelson A [mailto:Nelson.A.Rivera@hud.gov]
Sent: Thursday, January 08, 2015 11:03 AM
To: Smith, Lawrence
Cc: 'William Lindner'; 'Kim McEvoy'; 'Tim Davis'; 'Pettit, Chris'; Furda, Michael R; Fretwell, Therese J
Subject: RE: ASD Calculation

Lawrence,

Greetings,

Thanks for the provided information and drawings of the proposed site for development. As you know the site has the stationary, aboveground diesel tank that is 100 feet from the proposal, measured from the center of the tank to the perimeter of the site for development. Since its diesel fuel, its subject to the standards of the regulation 24 CFR Part 51 Subpart C for thermal radiation for buildings and people, but not for blast overpressure for buildings, building occupants and outdoor unprotected facilities, since the tank contents are not under pressure. The proposal needs to be in compliance with the Acceptable Separation Distance (ASD) following the standards mentioned above in order to be in compliance with the regulation. The above referenced tank is diked with dimensions of 6 feet x 6 feet x 2 feet high.

The ASD calculation results are as follow:

ASD for thermal radiation (people) : 38.55 feet
ASD for thermal radiation (buildings) : 5.72 feet

Since the ASD is meeting the required distance under the standards for thermal radiation for people and structures, no mitigation is required.

The project is in compliance following the requirements of the regulation.

Any questions please let me know

Thanks

Nelson

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From: Smith, Lawrence [<mailto:lismith@Dewberry.com>]
Sent: Thursday, January 08, 2015 10:18 AM
To: Rivera, Nelson A
Cc: William Lindner; Kim McEvoy; Tim Davis; Pettit, Chris
Subject: ASD Calculation

Nelson,

It was great talking with you yesterday. As per our conversation for the Beach Haven Site, the above-ground storage tank (AST) is approximately 500-gallons and is within a secondary containment basin that measures approximately 6 feet by 6 feet by 2 feet high. This allows for a storage capacity of approximately 538 gallons. It is noted that the basin has covers which prevent rain water accumulation that might otherwise displace its spill carrying capacity.

The tank is not pressurized; therefore, the ASD only includes thermal radiation for people/buildings, and excludes ASD for blast over pressure. The basin acts as a dike enclosure, then the storage tank has an ASD of approximately 40 feet for people (see attached calculation). The tank is located approximately 100 feet to the west of the building; therefore, the building is outside of the ASD, and no mitigation measures need to be incorporated into the project.

For your reference I have included the ASD calculation, photo of the AST (as well as the containment) and a site map.

Please let me know if you concur with these findings.

Take Care,

Larry

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