

1. *Rule being petitioned:*

Building allowable area, IBC table 506.2. 1-story building fully sprinklered system, IIB Construction Type, F-1 (Factory moderate-hazard) Occupancy Classification. Table states maximum allowable area allowed is 62,000 sqft.

2. *Rule cannot be satisfied because:*

We would like to combine one of the multiple additions, called Addition B, with the existing main production area, called the Roto and Extrusion area. Combining these 2 areas gives us an area of 68,697 sqft. The allowable area per the previous mentioned table is 62,000 sqft. We are over the allowable area by 11%.

3. *Alternatives and information are proposed for equivalent degree of health, safety, and welfare:*

As noted on the attached plans, the 2001 Production Building was separated from the existing building by a 4-hour masonry firewall, when it was constructed

Addition A will have a new 3-hour (East-West) masonry Firewall to separate the new addition from the existing 2001 production area.

Addition B will have a new 3-hour (North-South masonry Firewall to separate the new addition from the existing Slitter area. This addition will also have a new 3-hour (East-West) masonry Firewall to separate the new addition from the existing Warehouse.

There is a low employee count in this area. Current count in the existing production/extrusion area is around 18 workers. We are anticipating that the new extrusion area will add about 10 employees onto this, as the workers will switch from working on both extruders.

As noted, we are adding a firewall between Addition B and the existing storage warehouse. By doing this, most of the flammable materials will be separated from the production areas by a 3-hour Firewall.

As noted, we are converting a partition wall, in the existing 2001 Production area, into a 1-hr rated fire barrier, and converting the existing openings into 1-hr protection. This will divide the proposed area into smaller fire areas.

We are adding a new access lane/truck entrance to the south side of the existing facility. This new drive gives the FD new access to the complete south side of the complex, as there is no road there currently.

The City of Madison has an existing fire station right across the street from this facility. The facility is fully staffed 24/7.

The facility is completed sprinklered with either the standard spray wet system or an ESFR. Please see attached information received from JF Ahern on the types and locations of systems in this facility. As noted in this letter, JF Ahern is stating that it is better to use a standard spray sprinkler heads for use in addition B, due to the fact that they would be protecting press areas. ESFR sprinkler heads were developed and tested for storage type occupancies. Using them in non-storage occupancies may not get the results that is expected. The existing production area that we are attaching to, is already using a standard spray sprinkler heads.

We have 2 fire hydrants on the east side of Parkside drive. One is directly across from the sprinkler risers in the NW corner of the existing warehouse. We have another hydrant about 100' north, near the existing RTO. There is a third hydrant on the opposite side of the street, right near the overhead doors at the fire station. See attached pictures of locations of the fire hydrants.

Sept, 5, 2018

